

BP PLC
Form 20-F
March 29, 2018

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 20-F

(Mark One)

REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) or (g) OF THE SECURITIES EXCHANGE
ACT OF 1934

OR

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended 31 December 2017

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF
1934

OR

SHELL COMPANY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT
OF 1934

Commission file number: 1-6262

BP p.l.c.

(Exact name of Registrant as specified in its charter)

England and Wales

(Jurisdiction of incorporation or organization)

1 St James's Square, London SW1Y 4PD

United Kingdom

(Address of principal executive offices)

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BP p.l.c.

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Securities registered or to be registered pursuant to Section 12(b) of the Act

| Title of each class | Name of each exchange on which registered |
|---|---|
| Ordinary Shares of 25c each | New York Stock Exchange* |
| Floating Rate Guaranteed Notes due May 2018 | New York Stock Exchange |
| Floating Rate Guaranteed Notes due August 2018 | New York Stock Exchange |
| Floating Rate Guaranteed Notes due September 2018 | New York Stock Exchange |
| Floating Rate Guaranteed Notes due 2019 | New York Stock Exchange |
| Floating Rate Guaranteed Notes due 2021 | New York Stock Exchange |
| Floating Rate Guaranteed Notes due 2022 | New York Stock Exchange |
| 1.375% Guaranteed Notes due 2018 | New York Stock Exchange |
| 2.241% Guaranteed Notes due 2018 | New York Stock Exchange |
| 4.750% Guaranteed Notes due 2019 | New York Stock Exchange |
| 2.237% Guaranteed Notes due 2019 | New York Stock Exchange |
| 1.676% Guaranteed Notes due 2019 | New York Stock Exchange |
| 1.768% Guaranteed Notes due 2019 | New York Stock Exchange |
| 2.315% Guaranteed Notes due 2020 | New York Stock Exchange |
| 2.521% Guaranteed Notes due 2020 | New York Stock Exchange |
| 4.500% Guaranteed Notes due 2020 | New York Stock Exchange |
| 4.742% Guaranteed Notes due 2021 | New York Stock Exchange |
| 3.561% Guaranteed Notes due 2021 | New York Stock Exchange |
| 2.112% Guaranteed Notes due 2021 | New York Stock Exchange |
| 2.500% Guaranteed Notes due 2022 | New York Stock Exchange |
| 2.520% Guaranteed Notes due 2022 | New York Stock Exchange |
| 3.245% Guaranteed Notes due 2022 | New York Stock Exchange |
| 3.062% Guaranteed Notes due 2022 | New York Stock Exchange |
| 2.750% Guaranteed Notes due 2023 | New York Stock Exchange |
| 3.216% Guaranteed Notes due 2023 | New York Stock Exchange |
| 3.994% Guaranteed Notes due 2023 | New York Stock Exchange |
| 3.535% Guaranteed Notes due 2024 | New York Stock Exchange |
| 3.814% Guaranteed Notes due 2024 | New York Stock Exchange |
| 3.224% Guaranteed Notes due 2024 | New York Stock Exchange |
| 3.506% Guaranteed Notes due 2025 | New York Stock Exchange |
| 3.119% Guaranteed Notes due 2026 | New York Stock Exchange |
| 3.017% Guaranteed Notes due 2027 | New York Stock Exchange |
| 3.279% Guaranteed Notes due 2027 | New York Stock Exchange |
| 3.588% Guaranteed Notes due 2027 | New York Stock Exchange |
| 3.723% Guaranteed Notes due 2028 | New York Stock Exchange |

* Not for trading, but only in connection with the registration of American Depositary Shares, pursuant to the requirements of the Securities and Exchange Commission

Securities registered or to be registered pursuant to Section 12(g) of the Act.

None

Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act.

None

Indicate the number of outstanding shares of each of the issuer's classes of capital or common stock as of the close of the period covered by the annual report.

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| | |
|--|----------------|
| Ordinary Shares of 25c each | 21,288,193,071 |
| Cumulative First Preference Shares of £1 each | 7,232,838 |
| Cumulative Second Preference Shares of £1 each | 5,473,414 |

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934. Yes No

Note—Checking the box above will not relieve any registrant required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 from their obligations under those Sections.

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or an emerging growth company. See definition of "large accelerated filer," "accelerated filer," and "emerging growth company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer Accelerated filer Non-accelerated filer Emerging growth company

If an emerging growth company that prepares its financial statements in accordance with U.S. GAAP, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards[†] provided pursuant to Section 13(a) of the Exchange Act.

[†] The term "new or revised financial accounting standard" refers to any update issued by the Financial Accounting Standards Board to its Accounting Standards Codification after April 5, 2012.

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:

U.S. GAAP International Financial Reporting Standards as issued by the International Accounting Standards Board Other

If "Other" has been checked in response to the previous question, indicate by check mark which financial statement item the registrant has elected to follow.

Item 17 Item 18

If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes No

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Strategic report Overview 2 BP at a glance 4 How we run our business 6 Chairman's letter 8 Group chief executive's letter 10 The changing world of energy Strategy 12 Our strategy 14 A year of delivery 18 Measuring our progress Performance 20 Global energy markets 21 Group performance 26 Upstream 32 Downstream 38 Rosneft 41 Other businesses and corporate 41 Gulf of Mexico oil spill 42 Alternative Energy 44 Innovation in BP 47 Sustainability 47 Safety and security 50 Climate change 51 Managing our impacts 51 Value to society 52 Human rights 52 Environment 52 Ethical conduct 53 Our people 55 How we manage risk 57 Risk factors Corporate governance 60 Board of directors 66 Executive team 70 Introduction from the chairman 72 Board activity in 2017 76 Shareholder engagement 76 International advisory board 77 Audit committee 84 Safety, ethics and environment assurance committee 86 Remuneration committee 87 Geopolitical committee 88 Chairman's committee 89 Nomination committee 90 Directors' remuneration report Financial statements 123 Consolidated financial statements of the BP group 130 Notes on financial statements 191 Supplementary information on oil and natural gas (unaudited) Additional disclosures 247 Contents Including information on liquidity and capital resources, oil and gas disclosures, upstream regional analysis and legal proceedings. Shareholder information 279 Contents Including information on dividends, our annual general meeting and share prices. 289 Glossary 294 Non-GAAP measures reconciliations 297 Signatures 298 Cross-reference to Form 20-F 299 Information about this report Glossary Words with this symbol are defined in the glossary on page 289. Cautionary statement This document should be read in conjunction with the cautionary statement on page 277. Contents

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The energy we produce serves to power economic growth and lift people out of poverty. The way heat, light and mobility are delivered is changing. We aim to anchor our business in these changing patterns of demand, rather than in the quest for supply. We have a real contribution to make to the world's ambition of a low carbon future. BP Annual Report and Form 20-F 2017 1

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BP at a glance See Glossary ScaleWe are a global energy business with wide reach across the world's energy system. We have operations in Europe, North and South America, Australasia, Asia and Africa. 74,000 70 18,441 employees countries million barrels of oil equivalent – proved hydrocarbon reserves 18,300 1.5bn retail sites barrels of oil equivalent transported by BP shipping a On a combined basis of subsidiaries and equity-accounted entities. Senegal Made a major gas discovery offshore Senegal with joint venture partner Kosmos Energy. US Achieved record crude throughput levels at Whiting refinery, and listed BP Midstream Partners as a separate company. Azerbaijan Signed a contract that will help maximize recovery from the Azeri-Chirag-Deepwater Gunashli fields over the next 32 years. Europe Established Lightsources BP – Europe's biggest developer of large-scale solar projects, and achieved record production at our Geel petrochemicals plant in Belgium. Trinidad Made two significant gas discoveries with the Savannah and Macadamia exploration wells. BP in action Highlights of some of our activities in 2017. Argentina Formed a new integrated energy company with Bidas, to create the country's largest privately owned energy company. Egypt Made a gas discovery in the North Damietta Offshore Concession in the East Nile Delta. Mexico Opened more than 120 retail sites, and became one of the first private companies to supply natural gas to its domestic market. Gulf of Mexico Found significant additional oil resources at our Atlantis field using new seismic imaging technology. BP Annual Report and Form 20-F 2017

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See Glossary Performance Data as at or for the year ended 31 December 2017 unless otherwise stated. More information Group performance Page 21 Upstream Page 26 Downstream Page 32 Rosneft Page 38 Alternative Energy Page 42 \$3.4bn 3.6 18 profit attributable to BP shareholders (2016 \$115 million) KPI million barrels of oil equivalent per day – hydrocarbon production (2016 3.3mmboe/d) KPI tier 1 process safety events (2016 16) KPI \$6.2bn 143% underlying replacement cost profit (2016 \$2.6 billion) KPI group proved reserves replacement ratio a (2016 109%) KPI We delivered seven major projects in 2017 1 Taurus and Libra 2 Trinidad onshore compression 3 Quad 204 4 Persephone 5 Juniper 6 Khazzan Phase 1 7 Zohr See A year of delivery on page 14. a On a combined basis of subsidiaries and equity-accounted entities. KPI See key performance indicators on page 18. Russia Agreed to develop resources in the Kharampurskoe and Festivalnoye licence areas jointly with Rosneft. China Sold our interest in SECCO petrochemical company to Sinopec. Indonesia Established a retail joint venture with AKR. India Agreed to work with Reliance Industries in areas such as differentiated fuels and lower carbon energy solutions. Strategic report – overview 3BP Annual Report and Form 20-F 2017

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How we run our business From the deep sea to the desert, from rigs to retail, we deliver energy products and services to people around the world.

We provide customers with fuel for transport, energy for heat and light, lubricants to keep engines moving and the petrochemicals products used to make everyday items such as paints, clothes and packaging. We have a diverse portfolio across businesses, resource types and geographies. Having upstream and downstream businesses, along with well-established trading capabilities, helps to mitigate the impact of commodity pricing cycles. Our geographic reach gives us access to growing markets and new resources, as well as diversifying exposure to geopolitical events. We believe that our long history, well-recognized brands and customer offers, combined with our unique partnership with Rosneft, help differentiate us from our peers.

Our role in society The energy we produce helps to support economic growth and improve quality of life for millions of people. We strive to be a world-class operator, a responsible corporate citizen and a good employer. We believe that the societies and communities we work in should benefit from our presence. In supplying energy we contribute to economies around the world by employing local staff, helping to develop national and local suppliers, and through the taxes we pay to governments. Additionally, we aim to create meaningful, sustainable and positive impacts in those communities through our social investments. bp.com/society **Business model foundations** We also seek to grow or extend the life of existing fields – such as our Quad 204 major project which aims to unlock additional resources from the Schiehallion area of the UK North Sea. **Transporting and trading** We move oil and gas through pipelines and by ship, truck and rail. We also trade a variety of products including oil, natural gas, liquefied natural gas, power, carbon products and currencies. BP's traders complete around US\$50,000 transactions and serve more than 12,000 customers across some 140 countries in a year. Our customers range from independent power producers to utilities and municipalities. In addition we are helping to meet LNG demand in Asia including developments in China and Vietnam. **Finding oil and gas** New access allows us to renew our portfolio, discover additional resources and replenish our development options. We focus our exploration activities in the areas that are competitive in the portfolio, and develop and use technology to reduce costs and risks. **Developing and extracting oil and gas** We create value by seeking to progress hydrocarbon resources and turn them into proved reserves or divest them if they do not fit with our strategic priorities. We develop the resources that meet our return threshold, and produce hydrocarbons that we then sell to the market or distribute to our downstream facilities. Our upstream pipeline of future projects gives us choice about which we pursue – see page 30. **Creating shareholder value** **Safe and reliable operations** We strive to create and maintain a safe operating culture where safety is front and centre. This is not only safer for people and the environment – it also improves the reliability of our assets. See Safety and security on page 47. **Talented people** We work to attract, motivate, develop and retain the best talent the world offers and equip our people with the right skills for the future. Our performance and ability to thrive globally depends on it. See Our people on page 53. **Finding oil and gas** Developing and extracting oil and gas 4 BP Annual Report and Form 20-F 2017

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Generating renewable energy We have been investing in renewables for many years – and our focus today is on biofuels, biopower, wind energy and solar energy. We operate a biofuels business in Brazil, using one of the world’s most sustainable and advantaged feedstocks to produce both low carbon ethanol and low carbon power. We provide renewable power through our significant interests in onshore wind energy in the US, and develop and deploy technology in our wind business to drive efficiency. Through our acquisition of Clean Energy’s renewable natural gas business, we are helping to power vehicle fleets from organic waste. And in solar energy we will target the growing demand for large-scale solar projects worldwide, including with our partner Lightsource. Our lubricants business has premium brands and access to growth markets. It also leverages technology and customer relationships, all of which we believe gives us competitive advantage. We serve automotive, industrial, marine and energy markets across the world. And in petrochemicals our proprietary technology solutions deliver leading cost positions compared to our competitors. In addition to our own petrochemicals plants, we work with partners and license our technology to third parties. We use our market intelligence to analyse supply and demand for commodities across our global network. This helps us deliver what the market needs, when it needs it, identify the best markets for BP’s crude oil, source optimal raw materials for our refineries and provide competitive supply for our marketing businesses. Manufacturing and marketing fuels and products We produce refined petroleum products at our refineries and supply distinctive fuel and convenience retail services to consumers. Our advantaged infrastructure, logistics network and key partnerships help us to have differentiated fuels businesses and deliver compelling customer offers. Technology, innovation and venturing New technologies are enabling us to produce energy safely and more efficiently. We selectively research and invest in areas with the potential to add greatest value to our business now and in the future. See Innovation in BP on page 44. Partnerships and collaboration We aim to build enduring relationships with governments, customers, partners, suppliers and communities in the countries where we operate. See Rosneft on page 38. Governance and oversight Our risk management systems and policy provide a consistent and clear framework for managing and reporting risks. The board regularly reviews how we identify, evaluate and manage risks. See How we manage risk on page 55. Manufacturing Transporting and trading Marketing fuels and products Generating renewable energy 5 Strategic report – overview BP Annual Report and Form 20-F 2017

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Chairman's letter Above: Meeting with investors at the 2017 annual general meeting. Dear fellow shareholder, In 2017, the global economy continued to be strong and to grow while concerns around the geopolitical environment increased. For BP, as a global business, this was the backdrop to our operations. Against this background we have had a strong year. A year in which there was delivery and growth across all our businesses as Bob describes later in his letter. This was achieved with continued strong focus on safety. It's an impressive performance from a great team. They are now fully into their stride and are performing very well. All of this gave us confidence to continue the dividend at 10 cents per ordinary share through 2017 and shareholders can still take dividends in shares rather than cash. In the fourth quarter we restarted share buybacks to offset the dilutive effects of the scrip shares. It remains the board's policy to grow sustainable free cash flow and distributions to shareholders. So, a strong year and an important first year in the delivery of the commitment we made in 2016 to shareholders. So, I'd like to take stock and reflect on where BP is now and the progress that we've made over the past eight years. BP's path We were faced with a crisis in 2010 that could have threatened the very being of the company. A crisis that should never have happened. It required resolute action on many fronts to see us through and it is a great tribute to everyone in BP that the foundations were laid for our recovery. This involved doing things differently and thinking differently. We had to act simultaneously on many fronts. We had to address the issues in the US while restructuring our investments in Russia – and all the while ensuring that we had a clear strategy for delivering value for our shareholders. All of this in a world that is looking towards a transition to lower carbon. In addressing these challenges, BP showed a deep resilience. With the leadership of Bob and his team the whole organization was engaged with the board playing a full role. It is from this resilience that we have been able to set a clear strategy with goals out to 2021. A strategy which will grow BP and be responsive to the many changes that are happening in the world around us. Our challenge for the future Our goals aim to balance society's need for more energy with our clear ambition of playing our part in the transition to a lower carbon world. We are investing for the future in both hydrocarbons and in technologies which will be important in that transition. The world is changing quickly, quicker than we have seen before. There is no one solution and no one right way ahead. Our approach is clearly aimed at being flexible and responsive. Our goals aim to balance society's need for more energy with our clear ambition of playing our part in the transition to a lower carbon world. We are investing for the future in both hydrocarbons and in technologies which will be important in that transition. BP Annual Report and Form 20-F 20176

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Above: Visiting Aker's Tranby technology centre near Oslo. More information Corporate governance Page 59 Whatever scenario we look at, whether from BP or the IEA, there will need to be investment to ensure that sufficient hydrocarbons are available during the transition for the years to come. The world will continue to need supplies of hydrocarbons. We need the understanding and trust of society to make these investments to meet this global demand. Renewables cannot be developed quickly enough to meet the increasing need for energy. This is not a choice between two investment approaches, both are needed for the world to be able to grow. Our strategic priorities address this. We are committed and we demonstrate that commitment in reports that we will soon publish. Remuneration Executive remuneration remains a clear issue of focus for shareholders and society. I would like to thank our shareholders for the support which you gave to our new remuneration report at the 2017 AGM. This was an important step forward in regaining your confidence. As is clear from Dame Ann Dowling's letter later in this report, we are implementing this policy in a considered way. As is the case with the way remuneration works, there are awards maturing which are governed by our previous policy. We have carefully considered the impact of these. Working with the executives, the committee has exercised appropriate discretion to reflect your experience as shareholders over the past three years. Ann will be standing down from this committee at the AGM after three years in the chair. I would like to thank her for all the work that she has done in leading the committee through some very difficult times. Paula Reynolds will take the chair of this committee. The board The board has continued to work with Bob and his team on many issues relating to our strategy, our oversight of the risks that BP faces and our understanding of the evolving challenges of the lower carbon transition. Our oversight of these risks is principally carried out through the work of our committees. However there are certain risks, such as cyber security, where it is important that it is considered by the board. As a board we know that we can only bring long-term value to our shareholders if we understand the needs of and serve the communities in which we work. We need to listen to and be responsive to the voices of those communities and of our own employees. Membership of the board continues to evolve. Paul Anderson will be retiring at the AGM in May. Paul joined the board two months before the Deepwater Horizon accident. He has very deep experience of the energy industry and has been a major source of advice and counsel to me and to the board over these years. Paul has made a great contribution to the board and its committees over some difficult times. I thank him on my own behalf and on behalf of the board. Melody Meyer was elected to the board at the 2017 AGM. Melody has an extensive career in global oil and gas at Chevron. The board is proposing that Dame Alison Carnwath be elected as a director at the 2018 AGM. Alison has extensive financial experience both as an executive and non-executive. She has worked with global organizations and will bring a broad range of skills to the BP board and to the audit committee which she will join upon appointment. Both these appointments emphasize the board's commitment to diversity. This will continue to enhance independent thinking and healthy challenge. Our purpose BP has a clear purpose. Our role is to produce energy which can power economic growth and lift people out of poverty. We need to do this in a way that responds to the ambition of a world for a low carbon future. We have made considerable progress in 2017. It has been a great year, but we must not be complacent. We are in a competitive environment in a quickly changing world and our business needs to be ready to meet those demands. Bob and his team have once again done an excellent job in steering BP through this year and setting a course for the future. Thank you to Bob and the team, to my colleagues on the board and to all our employees for all their work during the year. My thanks also go to you our shareholders for your support of BP. I will be standing down during 2018 at some time after the May AGM and as I look back I feel good about the company. It's in a great position to grow. I am sure that I will have the opportunity to thank you for the support you have given me in due course. Carl-Henric Svanberg Chairman R9 March 2018 \$7.9 bn total dividends distributed to BP shareholders 5.7% ordinary shareholders annual dividend yield 5.7% ADS shareholders annual dividend yield See GlossaryBP Annual Report and Form 20-F 2017 7 Strategic report - ????

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Group chief executive's letter Dear fellow shareholder, In this report last year, BP set out a five-year strategy and promised a story of growth. One year into that five-year plan I am pleased to report that your company has just delivered a significant year of both disciplined execution and exciting growth. In many ways it was an extraordinary year for BP. Here are some of the headlines: • Underlying profit \$6.2 billion. • Upstream production up 12%. • Record earnings in Downstream. • Our most successful year for exploration since 2004. • Group reserves replacement ratio the highest in Q0 years. Of course, we were helped by an improving oil price. But that only tells part of the story. 2017 was a year where we again maintained our improved trend in safety performance for most of our main personal and process safety metrics, although we have seen a slight increase in our tier 1 events. Better safety and improved operational reliability, combined with strong discipline in our cash and capital costs, fed through into our financial performance. In a complex and uncertain world this may seem like a simple equation – safe and reliable operations plus cost discipline is good for the bottom line. But it works and the numbers prove this. We plan for the long term and we also measure our progress year on year and quarter by quarter. We were disappointed that we had to increase the provision relating to claims associated with the Gulf of Mexico spill, although we made real progress during the year in our efforts to close out the remaining claims. The claims facility is now winding down although a number of claims remain to be resolved. Our five-year plan As I said, last year we set out our strategic priorities. Simply put, these are designed to meet the dual challenge: to produce more of the affordable energy that the world needs while producing and delivering it in new ways, with fewer emissions, that society wants. The key to this dual challenge is to recognize that this is not just a race to renewables, it's a race to lower greenhouse gas emissions. So, while we are fully committed to the energy transition that is underway, we also see a lot of uncertainty around the pace and path of how this will unfold. Our aim is to build a strong and flexible strategy with a high-quality portfolio and the ability to adapt quickly as the pace and path become clearer. That means in the Upstream we are focused on growing oil and gas in a way that offers us advantages in terms of margin and value, with the reduced emissions in mind. In the Downstream we continue to develop advantaged manufacturing and marketing businesses that can create value from existing, new and emerging markets. Above: Chairing the panel of the Oil and Gas Climate Initiative meeting in London. We said that 2017 would be a very important year for BP. We set out ambitious plans for the year and we delivered on them. \$3.4bn profit attributable to BP shareholders BP Annual Report and Form 20-F 20178

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We are preparing for a low carbon future by investing in new companies and technologies across BP while also leveraging knowledge from the development of our existing Alternative Energy businesses. And we are modernizing how BP works, using technology and data to work more efficiently and digitizing our processes. Disciplined execution in 2017 We said that 2017 would be a very important year for BP. We set out ambitious plans for the year and we delivered on them. We promised to start up seven major projects in the Upstream. We brought these online and under budget for the portfolio as a whole. These projects, along with the six we brought online in 2016, have contributed to a 12% increase in our production. That helps to put us on track to deliver 900,000 barrels of new production per day by R021. We also strengthened our portfolio with our most successful year of exploration since 2004, sanctioned three exciting new projects in Trinidad, India and the Gulf of Mexico and added 143% reserves replacement for the group. In the Downstream we promised to grow earnings. In fact, we had our best ever year, with a replacement cost profit of \$7.2 billion, driven by strong earnings growth in our marketing and manufacturing businesses. This came from volume growth in our premium fuels and lubricants, the growth of our successful convenience retail partnerships around the world and strong performance in manufacturing. Exciting growth opportunities This is a time of transformational change for our industry. An era of abundant resources and a changing fuel mix mean that we must be competitive today and adapt fast to change for tomorrow. So, we must modernize how we work, embrace new advanced technologies and maintain our downward pressure on costs. We are already in action across BP. In the Upstream we are growing gas and advantaged oil on many fronts: signing a 25-year extension to our ACG production-sharing agreement in Azerbaijan; strengthening our relationship with Petrobras and accessing the prolific Santos basin in Brazil; extending our innovative alliance with Kosmos in West Africa; growing in Norway through our Aker BP joint venture; and adding production from onshore Abu Dhabi following the deepening of our long-term strategic relationship with the Abu Dhabi National Oil Company (ADNOC) at the end of 2016. In the Downstream we are building competitively advantaged businesses; extending our differentiated retail fuels offer in material new markets such as Mexico, India, Indonesia and China; entering into a new joint venture with DongMing Petrochemical as part of a focused growth strategy in China; renewing and creating new partnerships in lubricants with Renault Nissan, Ford, VW and Volvo. At the same time, we must look to produce and deliver energy in new ways, with fewer emissions, to help meet the world's climate goals. At BP we have been working on this challenge for over two decades and that has informed our approach today: working to reduce emissions in our operations; improving the products our customers use to help them reduce their emissions; creating new low carbon businesses and offers that complement our existing portfolio. In the low carbon space, we entered into a new partnership with Lightsources, a global leader in the development, acquisition and long-term management of large-scale solar projects. In new ventures, we have a pipeline of more than 40 active investments with more than 200 partners looking to exploit opportunities in advanced mobility, bio products, carbon management and low carbon power and storage. These are a few examples that I believe show we are in great shape to act where we see opportunity to make a real difference to this transition and, at the same time, create value for our shareholders. Strength in relationships The world is changing fast and there is a lot of uncertainty of what the future will actually look like. To stay competitive a company needs to be in tune with society. While we are making progress with issues such as gender and ethnicity representation, we recognize we still have more to do. Beyond having the right strategy, to succeed and thrive in uncertainty requires strong and trusting relationships. I am grateful to our partners, host governments and other stakeholders who have stood by us in hard times and continue to work with us to help shape our future and the future energy landscape. I am also grateful to you, our shareholders who have shown great patience while we stabilized BP and built up our resilience. I hope you see our recent performance as signs that this patience is being rewarded. And last, but not least, I want to thank the global BP team. I don't believe there is another company of our size and scale that can adapt and manage change better than we can. This spirit of invention and purpose has been alive across BP for over a century and will carry us forward into what, I believe, is a very bright future. Bob Dudley Group chief executive R9 March 2018 Above: At the inauguration of the first phase of development of Oman's giant Khazzan gas field. More information Strategy Page 12 Group performance Page 21 95.3% refining availability 94.7% Upstream plant reliability See GlossaryBP Annual Report and Form 20-F 2017 9 Strategic report – overview

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Above: Our Ituiutaba sugar cane processing unit in Brazil. P 3 6 9 12 15 18 2020 2000 2040 Energy consumption by region (billion tonnes of oil equivalent) OECD Other Asia Rest of World China Africa India a a Evolving transition scenario. The changing world of energy The world of energy is changing every day. With rising concerns about climate, technological advances and geopolitical shifts, the energy mix is moving towards lower carbon sources. Growing demand for energy People rely on energy for heat, light and mobility. Growing economies need energy to support their industry and infrastructure. How that energy is delivered is changing rapidly and the energy mix of the future will become increasingly lower carbon. The demand for energy continues to grow – largely driven by rising incomes in emerging economies and a global population heading towards nine billion by R040. But this growth is much slower than in the previous 20 years. The extent of the increase is being curbed by gains in energy efficiency, as there is greater attention around the world on using energy more sustainably. Energy mix is shifting Today, oil and gas account for almost 60% of all energy used. Even in a scenario that is consistent with the Paris goals of limiting warming to less than 2°C, oil and gas could provide around 40% of all energy used by 2040. So it's essential that action is taken to reduce emissions from their production and use. In a low carbon world, gas offers a much cleaner alternative to coal for power generation and a valuable back-up for renewables, for example when the sun and wind aren't available. Gas also provides heat for industry and homes and fuel for trucks and ships. • To meet the rising demand for cleaner energy, we are increasing our gas production. Renewables are the fastest-growing energy source and could account for at least 14% of all energy in 2040. • We are building up our renewable portfolio – focusing on biofuels, biopower, wind energy and solar energy. Oil is the primary fuel for transport today. We expect its share of the total energy mix will gradually decline as we see more energy efficiency in traditional engines, greater use of biofuels and gas, and growth in fully electric and hybrid vehicles, as well as ride sharing, in the years ahead. • We are developing new efficient fuels and lubricants that can help our customers and consumers to lower their emissions. Advances in technology Insights from our Energy Outlook and Technology Outlook help shape our strategic thinking. We consider how policy, consumer behaviour and advances in technology could affect the pace of the energy transition and how we produce and use energy in the coming decades. • We prioritize certain new technologies for in-depth analysis – based on their fit with our strategy and how soon and likely we think they are to break through technological and commercial barriers. We also invest in start-up companies to understand and participate in these potentially transformational technologies. See Innovation in BP on page 44. R040 outlook BP Annual Report and Form 20-F 201710

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Emerging greenhouse gas policy and regulation Governments are putting in place taxes, carbon trading schemes and other measures to limit greenhouse gas (GHG) emissions. A fifth of the world's GHG emissions are now covered by carbon pricing systems, double the coverage from just five years ago. We expect around two thirds of BP's direct emissions will be in countries subject to emissions and carbon policies by 2020. And we have been active as a trader in the world's current emissions trading systems since their inception. To help anticipate greater regulatory requirements affecting our GHG emissions, we use a carbon cost when evaluating our plans for large new projects and those for which emissions costs would be a material part of the project. In industrialized countries, this is currently \$40 per tonne of carbon dioxide equivalent. • We also stress test at a carbon price of \$80 per tonne.

Our carbon cost, along with energy efficiency considerations, encourages projects to be set up in a way that will have lower GHG emissions. Around 80-90% of carbon dioxide emissions from oil and gas products are from their use by consumers in transportation, power plants, industries and buildings. So one of the biggest contributions we can make to advance the energy transition is by providing products and services that help consumers lower their carbon footprint. More information BP Energy Outlook Provides our projections of future energy trends and factors that could affect them out to 2040. See bp.com/energyoutlook Technology Outlook Describes how technology could influence the way we meet the energy challenge into the future. See bp.com/technologyoutlook

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|----|----|----|----|------|-------------------|------|------------------------|------|-------------------|------|---------------------|-----|---------|----|----|----|----|----|----|----|---|
| P | 3 | 6 | 9 | 12 | 15 | 18 | 22 | % | Q9 | % | Q0 | % | 8% | 8% | S3 | % | R5 | % | R2 | % | |
| Q3 | % | W% | 8% | R5 | % | R7 | % | R6 | % | 21 | % | U% | W% | Q4 | % | S3 | % | 24 | % | R8 | % |
| % | T% | W% | 4% | R040 | Faster transition | 2040 | Even faster transition | 2016 | Actual energy mix | R040 | Evolving transition | Oil | Billion | | | | | | | | |

tonnes of oil equivalent. The sum of the fuel shares may not equal 100% due to rounding. Gas Coal Nuclear Hydro Renewables Energy consumption – 2040 projections Evolving transition In this scenario, government policies, technology and social preferences evolve in a manner and speed seen in the recent past. The growing world economy requires more energy but consumption increases less quickly than in the past. Faster transition This scenario sees carbon prices rising faster than in the evolving transition scenario with other policy interventions encouraging more rapid energy efficiency gains and fuel switching. Even faster transition This scenario matches carbon emissions similar to the International Energy Agency's sustainable development scenario which aims to limit the global temperature rise to well below 2°C. 80-90% CO2 emissions BP Annual Report and Form 20-F 2017 11 Strategic report – overview

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More information Financial framework How this underpins our commitment to sustain the dividend for our shareholders. See page 25

Growing gas and advantaged oil in the upstream Our strategy Seismic success Found significant additional oil resources at our Atlantis field in the Gulf of Mexico using a new seismic imaging technique. Enduring relationships Extended our contract in the Azeri-Chirag-Gunashi field in Azerbaijan for a further 25 years, continuing our long-term advantaged oil production. Invest in more gas and oil, producing both with increasing efficiency. Key highlights See page 27 Our industry is changing at a pace not seen in decades. Oil, gas and renewables are becoming more abundant and less costly. Through new technologies, energy will be produced more efficiently and in new ways, helping to meet the expected rise in demand. And the world is working towards a lower carbon future. Our strategy allows us to be competitive at a time when prices, policy, technology and customer preferences are evolving. We believe having a balanced portfolio with advantaged oil and gas, competitive downstream and low carbon activities, as well as a dynamic investment strategy give us resilience. With the experience we have, the portfolio we have created and the flexibility of our strategy, we can embrace the energy transition in a way that enhances our investor proposition, while meeting the need for energy today. Major project start-ups Started up seven major projects, making a significant contribution to the 900,000 barrels per day of expected new production by 2021. Exploration successes Made six potentially commercial discoveries – two in the UK, two in Trinidad, one in Egypt and one in Senegal with our partner Kosmos Energy. See Glossary12 BP Annual Report and Form 20-F 2017

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Modernizing the whole group Market-led growth in the downstream Venturing and low carbon across multiple fronts Automating well construction Launched DrillPlan® – a new technology to automate the entire well construction process – at our Khazzan field in Oman, in partnership with Schlumberger. Serving customers digitally Launched a range of digital apps to enhance our customers' experiences, such as BPMe and in partnership with TomTom Telematics, BP FleetMove. Speedier solutions Began a multi-year project to move our electronic information from physical data centres to the cloud. Carbon trading Used our powerful market insights and innovative platforms to help generate over Q2 million tonnes of CO2 reductions through carbon offsetting projects to help customers meet their emissions commitments. Renewable gas Acquired Clean Energy's renewable natural gas business – giving BP access to its network of gas transport customers and helping to make biogas, made from organic waste, more accessible to natural gas powered vehicle fleets. Generating solar energy Partnered with Lightsource – Europe's largest solar development company – to help propel its continuing and rapid expansion worldwide. Advancing biofuel technology Acquired the Nesika ethanol plant in Kansas, with joint venture partner DuPont, to commercialize Butamax® bio-isobutanol technology. Investing in artificial intelligence Invested in AI software for the oil and gas industry with venture partner Beyond Limits. Convenience partnerships Continued the rollout of our convenience partnership model across our retail network – adding more than 220 sites in 2017, bringing the total to 1,100. Retail sites in Mexico Became the first global brand to enter the Mexican retail fuels market since deregulation – opening more than 120 BP-branded retail sites during the year. Pursue new opportunities to meet evolving technology, consumer and policy trends. Simplify our processes and enhance our productivity through digital solutions. Innovate with advanced products and strategic retail partnerships. See page 46 See page 23 Strategic report – strategy Lower carbon products Expanded our lower carbon products portfolio with Castrol EDGE BIO-SYNTHETIC now available in the US, the supply of jet biofuel in Sweden and Norway, and our PTAir brand – now available globally. High-quality lubricants Announced plans to build a high-quality lubricants blend plant in China. See page 33 13BP Annual Report and Form 20-F 2017 See Glossary

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Fast facts Operator BP Partners BP (82.75%) RWE Dea (17.25%) Project type Conventional gas Peak annual average production ~105mboe/d (gross) ~80mboe/d (net) Fast facts Operator Atlantic LNG Partners 100% owned by BP Trinidad and Tobago which is owned by BP (70%) and Repsol (30%) Project type Liquefied natural gas Peak annual average production ~35mboe/d (gross) ~35mboe/d (net) 2 Trinidad: TROC • Increased production from low-pressure wells in our existing acreage in the Columbus Basin. • This onshore facility has the capacity to deliver nearly 800 million standard cubic feet of gas per day when fully operational. A year of delivery This was a big year for BP with seven major projects coming onstream, making it one of the most significant years for commissioning new projects in our history. This puts us well on the way to achieving our aim of 900,000 barrels of oil equivalent per day of new production from our new major projects by 2021. 1 Egypt: Taurus and Libra • Production around 20% above plan. • Added significant gas production to the Egyptian market. 1 Taurus and Libra 2 Trinidad onshore compression (TROC) 3 Quad 204 4 Persephone 5 Juniper 6 Khazzan Phase 1 7 Zohr See Glossary 100% of the gas from the project will be used for the national grid BP and its partners operate across 5,000km² in Egypt – about the size of Croatia +50 years as largest contributor to natural gas production in Trinidad 14 BP Annual Report and Form 20-F 2017

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Fast facts Operator Woodside Partners BP (16.67%) BHP, Chevron, Shell, Woodside and Mitsubishi-Mitsui (16.67% each) Project type Liquefied natural gas Peak annual average production ~50mboe/d (gross) ~8mboe/d (net) 4 Australia: Persephone • Increased gas production from the North West Shelf project – Australia’s largest oil and gas resource development. • The North West Shelf project contributes around a third of Australia’s oil and gas production. Fast facts Operator BP Partners BP (36%) Shell (54%) Siccar Point Energy (10%) Project type Conventional oil Peak annual average production ~125mboe/d (gross) ~45mboe/d (net) 3 UK North Sea: Quad 204 • Extended the lives of the Schiehallion and Loyal fields out to 2035 and beyond. • Constructed and installed Glen Lyon, the world’s largest harsh-water floating production, storage and offloading vessel. • Progressed BP’s aim to double UK North Sea production by 2020. Quad 204 is expected to return the fields to their historical peak production £2bn+ contracts awarded to UK companies Strategic report – strategy 15BP Annual Report and Form 20-F 2017

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Fast facts Operator BP Partners 100% owned by BP Trinidad and Tobago, which is owned by BP (70%) and Repsol (30%) Project type Liquefied natural gas Peak annual average production ~95mboe/d (gross) ~95mboe/d (net) 5 Trinidad: Juniper • Our first subsea field development in Trinidad. • We expect Juniper will make a significant contribution to Trinidad & Tobago's national gas production. Fast facts Operator BP Partners BP (60%) Oman Oil (40%) Project type Tight gas Peak annual average production ~172mboe/d (gross) ~103mboe/d (net) 6 Oman: Khazzan Phase 1 • Accessed gas in extremely hard rock at depths of up to 5km using expertise from our US Lower 48 business. • Conducted the world's largest onshore seismic survey and SD modelling of the subsurface. • Designed to be inherently efficient and lower in greenhouse gas emissions. It weighs about 100,000 tons – equivalent to 20 Boeing 747s fully loaded for take off One of the biggest tight gas projects in the Middle East 16 BP Annual Report and Form 20-F 2017

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BP's net share from our seven major projects at peak production (in thousand barrels of oil equivalent per day) 8 Taurus and Libra TROC Quad 204
Persephone Juniper Khazzan Phase 1 Zohr 80 35 95 103 3645 Fast facts Operator ENI Partners BP (10%) Eni (60%) Rosneft (30%)
Project type Dry gas Peak annual average production ~364mboe/d (gross) ~36mboe/d (net) 7 Egypt: Zohr • Started up in less than two and a half
years from discovery – a record time for a field of this size in deepwater. • Thought to be the largest gas discovery in the Mediterranean. More
information Go to youtube.com/bp to watch the stories behind our seven major projects. Looking ahead We plan to start-up six projects in 2018.
1 2 Egypt 3 UK North Sea 4 Azerbaijan 5 US 6 Russia More information Upstream project pipeline See page 30 ~1.3 billion barrels
of proved reserves 17BP Annual Report and Form 20-F 2017 Strategic report – strategy

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|------|------|---------------------|---|------|----------------------------|-----------------------------------|--|-------|-------|--------------------------------------|-------|------|----------------------------------|------|
| 2016 | 2017 | 2015 | 2014 | 2013 | Profit (loss) for the year | Underlying RC profit for the year | 3.8 | 12.1 | 13.4 | 5.9 | (6.5) | 2.6 | 3.4 | |
| 6.2 | 0.1 | 0 | Underlying replacement cost profit (\$ billion) | 23.5 | REM | 3,230 | 3,141 | 3,239 | 3,268 | 3,595 | 2016 | 2017 | 2015 | |
| 2013 | 2014 | Production (mboe/d) | 21.1 | 32.8 | 19.1 | 10.7 | 18.9 | 2016 | 2017 | 2015 | 2013 | 2014 | Operating cash flow (\$ billion) | |
| REM | 4 | 7 | 7 | 4 | 2016 | 2017 | 2015 | 2013 | 2014 | Major project delivery | REM | 20 | 28 | 20 |
| 16 | 18 | REM | Tier 1 process safety events a | 2016 | 2017 | 2015 | 2013 | 2014 | REM | Reported recordable injury frequency | REM | REM | 2016 | 2017 |
| 2014 | 0.31 | 0.31 | 0.24 | 0.21 | 0.22 | Measuring our progress | We monitor the progress of our major projects to gauge whether we are delivering our core pipeline of projects under construction on time. Projects take many years to complete, requiring differing amounts of resource, so a smooth or increasing trend should not be anticipated. Major projects are defined as those with a BP net investment of at least \$250 million, or considered to be of strategic importance to BP, or of a high degree of complexity. 2017 performance We started up seven major projects in Australia, Egypt, the UK North Sea, Oman and Trinidad. Operating cash flow is net cash flow provided by operating activities, as reported in the group cash flow statement. Operating activities are the principal revenue-generating activities of the group and other activities that are not investing or financing activities. R017 performance Operating cash flow was higher due to improved business results, including a more favourable price environment and higher production as well as lower Gulf of Mexico oil spill payments which amounted to \$5.2 billion in 2017. Underlying RC profit is a useful measure for investors because it is one of the profitability measures BP management uses to assess performance. It assists management in understanding the underlying trends in operational performance on a comparable year-on-year basis. It reflects the replacement cost of inventories sold in the period and is arrived at by excluding inventory holding gains and losses from profit or loss. Adjustments are also made for non-operating items and fair value accounting effects. R017 performance Profit for the year and underlying RC profit reflect higher oil and gas prices, and a stronger refining environment compared with 2016, as well as the benefit of major project start-ups, and stronger refining operational performance. Production is a useful measure for tracking how our major projects are helping to grow our business. We report production of crude oil, condensate, natural gas liquids (NGLs), natural bitumen and natural gas on a volume per day basis for our subsidiaries and equity-accounted entities. Natural gas is converted to barrels of oil equivalent at 5,800 standard cubic feet of natural gas = 1 boe. 2017 performance BP's total reported production including Upstream and Rosneft segments was 10% higher than in 2016 due to the Abu Dhabi onshore concession renewal and major project start-ups. We report tier 1 process safety events which are losses of primary containment of greatest consequence – causing harm to a member of the workforce, costly damage to equipment or exceeding defined quantities. R017 performance We have seen a slight increase in tier 1 process safety events, and we remain focused on our systematic approach to safety management and assurance. We assess our performance across a wide range of measures and indicators. Our key performance indicators (KPIs) provide a balanced set of metrics that give emphasis to both financial and non-financial measures. These help the board and executive management assess performance against our strategic priorities and business plans, with non-financial metrics playing a useful role as leading indicators of future performance. BP management uses these measures to evaluate operating performance and make financial, strategic and operating decisions. Changes to KPIs We have added Upstream plant reliability to our KPIs this year to reflect our strategy and align the measures used for Upstream and Downstream. It will also be used to assess performance for the annual bonus in our 2018 remuneration outcomes assessment. We no longer report loss of primary containment as we are focusing on more comparable industry metrics. And in light of our refreshed strategy, announced in February 2017, we've updated the employee survey questions to reflect our new priorities and retired the group priorities index, which was based on priorities set in 2012. Remuneration To help align the focus of our board and executive management with the interests of our shareholders, certain measures are used for executive remuneration. Reported recordable injury frequency (RIF) measures the number of reported work-related employee and contractor incidents that result in a fatality or injury per 200,000 hours worked. 2017 performance We have seen a small increase in our RIF compared with 2016. Improving safety in our operations is a high priority and we are working on it right across the business. This represents reported incidents occurring within BP's operational HSSE reporting boundary. That boundary includes BP's own operated facilities and certain other locations or situations. REM Measures used for the remuneration policy approved by shareholders at the 2017 AGM. REM These measures were used for executive remuneration under the terms of our discontinued 2014-16 policy. Measures for the annual bonus are focused on safety, reliable operations and financial performance. Measures for performance shares are focused on shareholder value, capital discipline and future growth. More information Directors' remuneration Page 90 BP Annual Report and Form 20-F 201718 See Glossary | | | | | | | |

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2016 2017 2015 2014 2013 REM 0 29.0 20.0 9.5 (11.6) (16.5) 14.0 14.7 (8.3) (12.8) ADS basis Ordinary share basis Total shareholder return (%) U5.5 REM 71 73 73 73 73 2016 2017 2015 2014 2013 Employee engagement (%) R016 2015 2013 2014 95.3 94.9 94.7 95.3 95.3 2017 Refining availability (%) REM 129 63 61 109 143 2016 2017 2015 2013 2014 Reserves replacement ratio (%) REM 2016 2017 2015 2014 2013 Women Non UK/US c 21 21 18 18 23 21 19 22 21 24 Diversity and inclusion b (%) Return on average capital employed (%) 12 2016 2015 2013 2014 10.2 9.6 5.5 2.8 5.8 2017 REM 2016 2015 2013 2014 50.3 48.7 49.0 50.1 49.4 2017 Greenhouse gas emissions (million tonnes of CO₂ equivalent) 2016 2015 2013 2014 13.16 12.75 10.46 8.46 7.11 2017 Upstream unit production costs (\$/boe) REM 95.0 91.7 93.4 95.3 94.7 2016 2015 2013 2014 2015 2013 2014 2017 Upstream plant reliability (%) Proved reserves replacement ratio is the extent to which the year's production has been replaced by proved reserves added to our reserve base. The ratio is expressed in oil-equivalent terms and includes changes resulting from discoveries, improved recovery and extensions and revisions to previous estimates, but excludes changes resulting from acquisitions and disposals. The ratio reflects both subsidiaries and equity-accounted entities. This measure helps to demonstrate our success in accessing, exploring and extracting resources. 2017 performance The ratio was higher due to development activity in Abu Dhabi and Rosneft, expansion of the Khazzan development in Oman and extension of the ACG licence. Each year we report the percentage of women and individuals from countries other than the UK and the US among BP's group leaders. 2017 performance While the percentage of our group leaders who are women decreased slightly, the number of non-UK/US people rose. We are developing mentoring, sponsorship and coaching programmes to help more women advance. Total shareholder return (TSR) represents the change in value of a BP shareholding over a calendar year. It assumes that dividends are reinvested to purchase additional shares at the closing price on the ex-dividend date. We are committed to maintaining a progressive and sustainable dividend policy. 2017 performance Reduced TSR reflects lower share price growth in 2017 compared with 2016, while the dividend per share was maintained at the same level. We conduct an annual employee survey to understand and monitor levels of employee engagement and identify areas for improvement. 2017 performance The overall employee engagement score was up from two years ago, when we saw a decline that coincided with the uncertainties of a low oil price environment. Return on average capital employed (ROACE) gives an indication of a company's capital efficiency, dividing the underlying RC profit after adding back net interest by average capital employed, excluding cash and goodwill. See page 295 for more information including the nearest GAAP equivalent data. In recent years, ROACE has been lower in the oil and gas sector, due to the impact of lower oil prices on earnings and the capital investment made during the preceding period of \$100 per barrel oil prices. 2017 performance The 2017 increase in ROACE is due to a stronger environment and improved business performance. Refining availability represents Solomon Associates' operational availability. The measure shows the percentage of the year that a unit is available for processing after deducting the time spent on turnaround activity and all mechanical, process and regulatory downtime. Refining availability is an important indicator of the operational performance of our Downstream businesses. 2017 performance Refining availability was similar to 2016, reflecting continued strong operational performance in our portfolio. This performance is underpinned by our global reliability improvement programme which provides our refineries with a more structured and systematic approach to improving availability. The upstream unit production cost indicator shows how supply chain, headcount and scope optimization impact cost efficiency. R017 performance The lower unit production costs in 2017 reflect further efficiency increases and the benefit of new production start-ups. BP-operated Upstream plant reliability is calculated as 100% less the ratio of total unplanned plant deferrals divided by installed production capacity. 2017 performance The slight decrease in 2017 plant reliability was due in part to our new major projects ramping up, however this was partly offset by solid performance across existing assets. We provide data on greenhouse gas (GHG) emissions material to our business on a carbon dioxide-equivalent basis. This includes carbon dioxide (CO₂) and methane for direct emissions. Our GHG KPI encompasses all BP's consolidated entities as well as our share of equity-accounted entities other than BP's share of Rosneft. 2017 performance The primary reasons for the overall decrease include operational changes such as planned shutdowns at several of our refineries for maintenance, and actions taken by our businesses to reduce emissions in areas such as flaring, methane and energy efficiency. b Relates to BP employees. c Figures for 2013-16 have been amended. See Glossary BP Annual Report and Form 20-F 2017 19 Strategic report – strategy

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BP Annual Report and Form 20-F-201720 Global energy markets Oil prices recovered in 2017, but averaged only half the prices seen in 2011-13. While the market continues to rebalance in the face of ongoing co-ordinated OPEC and non-OPEC production restraint, inventories remain above their recent historical average. The world economy grew at 3.1% in 2017, its fastest rate of growth since 2011. This was significantly faster than the 2.4% seen in 2016 and slightly more than the average of nearly 3% over the past 20 years. Growth in the OECD picked up to 2.4%, from just 1.7% in 2016, benefiting from improvements in both consumption and investment across all major regions, and a pick-up in global trade. The non-OECD showed a similar broad-based improvement, growing by 4.3% in 2017, compared with 3.8% in 2016. Oil Crude oil prices (\$/bbl – quarterly average) Q50 120 90 60 08 09 10 11 12 13 14 15 16 2017 Brent dated Prices Dated Brent crude oil prices averaged \$54.19 per barrel in 2017 – the first annual increase since 2012 but roughly half the average of over \$110 seen in 2011-13. Prices drifted lower over the first half of the year before rebounding, ending the year at their monthly high point, averaging \$64 in December. Consumptiona Global consumption increased by 1.6 million barrels per day (mmb/d) to 97.8mmb/d for the year (1.6%) – due to continued low oil prices and a recovering world economy. Demand once again grew most rapidly in Asia’s emerging economies (+1mmb/d), but OECD demand also increased for a third consecutive year. Productiona Global oil production saw weak growth for a second consecutive year, rising by just 0.4mmb/d. However, the source of global weakness was different in 2017. After falling in 2016, non-OPEC production recovered (+0.8mmb/d), led by the US. In contrast OPEC production declined by 0.4mmb/d – the first decline since 2013 – as the group engaged with certain non-OPEC producers to restrain output. Inventoriesa These changes resulted in global demand exceeding supply in 2017. As a result, oil inventories in the OECD began to decline, although they remained well above the recent historical range. At the end of November OECD commercial inventories were roughly 100 million barrels less than R016, but remained 90 million barrels above the five-year average. The surplus relative to the five-year average was well below the peak of \$66 million barrels seen in July 2016. Natural gas 08 09 10 11 12 13 14 15 16 12 10 6 8 4 2 Henry HubNatural gas prices (\$/mmBtu – quarterly average) R017 Prices Gas prices rebounded in all key markets in 2017, as global markets tightened. Liquefied natural gas (LNG) supply increased more slowly than expected, while LNG demand from China was unexpectedly strong, and high coal prices supported gas prices in the power generation sector. Gas prices in the US averaged \$3.11 per million British thermal units (mmBtu), up by \$0.65 compared with 2016 (\$2.46). The Japanese spot price rebounded to \$7.13/mmBtu in 2017 from \$5.72/mmBtu in 2016, driven by stronger Asian LNG demand, notably from China but also Japan, Korea and Pakistan. The UK National Balancing Point hub price was 44.95 pence per therm, 30% higher than in 2016 (34.63), supported by increasing coal prices. Meanwhile pipeline outages and cold weather put pressure on UK prices towards the end of 2017. Broad differentials between regional gas prices have increased, even though they remain at much lower levels than the peaks observed in 2012 and 2013. Consumptionb Global consumption is estimated to have grown more rapidly in 2017 than in 2016. Strong growth in Asia, the Middle East and Africa offset a decline in North American consumption, where higher gas prices caused gas to lose market share to coal in the US power sector. Meanwhile demand in core European markets was broadly stable. And higher weather-related demand towards the end of the year boosted global annual demand. Productionb Total gas production is estimated to have increased substantially in 2017, in contrast to 2016, which had similar production to 2015. Significant production increases were achieved in Australia – supported by the start of new LNG trains, and in Russia. Global LNG supply capacity expanded strongly in 2017, adding almost three times as much new capacity as in 2016. Several trains came online in the US, Australia, Russia and Malaysia. See Glossary More information Prices and margins Pages 26 and 32 a From IEA Oil Market Report, 13 February 2018 ©, OECD/IEA 2018. b Based on BP estimates from the BP Energy Outlook.

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BP Annual Report and Form 20-F 2017 21 Group performance We had strong delivery and growth across BP in 2017, enabling the company to get back into balance. The full-year underlying result was more than double a year earlier and our financial frame remains resilient. We recommenced share buybacks during the fourth quarter with the intention to offset any ongoing dilution from scrip dividends over time. Brian Gilvary, group chief financial officer In summary (20) (10)(15) (5) 0 105 15 20 2016 2015 2017 Segment RC profit (loss) before interest and tax (\$ billion)

Downstream Rosneft Upstream Other businesses and corporate – other Other businesses and corporate – Gulf of Mexico oil spill Consolidation adjustment – UPII Group RC profit (loss) before interest and tax Financial and operating performance \$ million except per share amounts R017 2016 2015 Profit (loss) before interest and taxation 9,474 (430) (7,918) Finance costs and net finance expense relating to pensions and other post-retirement benefits (2,294) (1,865) (1,653) Taxation (3,712) 2,467 3,171 Non-controlling interests (79) (57) (82) Profit (loss) for the year 3,389 115 (6,482)

Inventory holding (gains) losses, before tax (853) (1,597) 1,889 Taxation charge (credit) on inventory holding gains and losses 225 483 (569) Replacement cost profit (loss) 2,761 (999) (5,162) Net (favourable) adverse impact of non-operating items and fair value accounting effects, before tax 3,730 6,746 15,067 Taxation charge (credit) on non-operating items and fair value accounting effects (325) (3,162) (4,000) Underlying replacement cost profit 6,166 2,585 5,905 Dividends paid per share – cents 40.0 40.0 40.0 – pence 30.979 29.418 26.383 a Profit (loss) attributable to BP shareholders. More information Upstream Page 26 Downstream Page 32 Rosneft Page 38 Other businesses and corporate Page 41 Oil and gas disclosures for the group Page 259 See Glossary \$6.2bn underlying replacement cost (RC) profit (2016 \$2.6 billion) \$3.4bn \$18.9bn profit attributable to BP shareholders (2016 \$115 million) operating cash flow (2016 \$10.7 billion) Strategic report – performance

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BP Annual Report and Form 20-F-201722 Results Profit for the year ended 31 December 2017 was \$3.4 billion, compared with \$115 million in 2016.

Excluding inventory holding gains, replacement cost (RC) profit was \$2.8 billion, compared with a loss of \$1.0 billion in 2016. After adjusting for non-operating items of \$3.3 billion and net adverse fair value accounting effects of \$96 million (both on a post-tax basis), underlying RC profit for the year ended 31 December 2017 was \$6.2 billion, an increase of \$3.6 billion compared with 2016. The increase was predominantly due to higher results in both Upstream and Downstream segments. The Upstream result reflected higher oil and gas prices and increased production. The Downstream result reflected strong refining performance, including an improved margin environment and growth in fuels marketing. The profit for the year ended 31 December 2016 was \$115 million, compared with a loss of \$6.5 billion in 2015. Excluding inventory holding gains, RC loss was \$1.0 billion, compared with a loss of \$5.2 billion in 2015. After adjusting for non-operating items of \$2.8 billion and net adverse fair value accounting effects of \$0.8 billion (both on a post-tax basis), underlying RC profit for the year ended 31 December 2016 was \$2.6 billion, a decrease of \$3.3 billion compared with 2015. The reduction was predominantly due to lower results in both the Upstream and Downstream segments reflecting lower oil and gas prices and the weaker refining environment. Non-operating items The net charge for non-operating items was \$3.6 billion pre-tax and \$3.3 billion post tax in 2017. The post-tax non-operating charge includes a charge of \$1.7 billion recognized in the fourth quarter relating to business economic loss and other claims associated with the Gulf of Mexico oil spill and a \$0.9 billion deferred tax charge following the change in the US tax rate enacted in December 2017. In addition, the net charge also reflects an impairment charge in relation to upstream assets. The net charge for non-operating items of \$5.7 billion pre-tax and \$2.8 billion post tax in 2016 mainly related to additional charges for the Gulf of Mexico oil spill which were partially offset by net impairment reversals. Non-operating items in 2016 also included a restructuring charge of \$0.8 billion (2015 \$1.1 billion). More information on non-operating items and fair value accounting effects can be found on pages 250 and 294. See Financial statements – Note 2 for further information on the impact of the Gulf of Mexico oil spill on BP's financial results. Taxation The charge for corporate income taxes in 2017 includes a one-off deferred tax charge of \$0.9 billion in respect of the revaluation of deferred tax assets and liabilities following the reduction in the US federal corporate income tax rate from 35% to 21% enacted in December 2017. The effective tax rate (ETR) on the profit or loss for the year was 52% in 2017, 107% in 2016 and 33% in 2015. The ETR for all three years was impacted by various one-off items. Adjusting for inventory holding impacts, non-operating items which include the impact of the US tax rate change, fair value accounting effects and the deferred tax adjustments as a result of the reductions in the UK North Sea supplementary charge in 2016 and 2015, the adjusted ETR on RC profit was 38% in 2017 (2016 23%, 2015 31%). The adjusted ETR for 2017 is higher than 2016 predominantly due to changes in the geographical mix of profits, notably the impact of the renewal of our interest in the Abu Dhabi onshore oil concession. The adjusted ETR for 2016 was lower than 2015 predominantly due to changes in the geographical mix of profits as a result of the lower oil price and the absence of foreign exchange impacts from the strengthening of the US dollar in 2015. In the current environment, the adjusted ETR in 2018 is expected to be above 40%.

| | \$ million | 2017 | 2016 | 2015 |
|---|------------|----------|----------|----------|
| Operating cash flow | | 18,931 | 10,691 | 19,133 |
| Net cash used in investing activities | | (14,077) | (14,753) | (17,300) |
| Net cash provided by (used in) financing activities | | (3,296) | 1,977 | (4,535) |
| Cash and cash equivalents at end of year | | 25,586 | 23,484 | 26,389 |
| Capital expenditure | | | | |
| Organic capital expenditure | | (16,501) | (16,675) | N/A |
| Inorganic capital expenditure | | (1,339) | (777) | N/A |
| Total | | (17,840) | (17,452) | (20,202) |
| Gross debt | | 63,230 | 58,300 | 53,168 |
| Net debt | | 37,819 | 35,513 | 27,158 |
| Gross debt ratio (%) | | 38.6% | 37.6% | 35.1% |
| Net debt ratio (%) | | 27.4% | 26.8% | 21.6% |

a From 2017 onwards we are reporting organic, inorganic and total capital expenditure on a cash basis which were previously reported on an accruals basis. This aligns with BP's financial framework and is now consistent with other financial metrics used when comparing sources and uses of cash. An analysis of capital expenditure on a cash basis for 2015 is not available. Operating cash flow Net cash provided by operating activities for the year ended 31 December 2017 was \$18.9 billion, \$8.2 billion higher than the \$10.7 billion reported in 2016. Operating cash flow in 2017 reflects \$5.3 billion of pre-tax cash outflows related to the Gulf of Mexico oil spill (2016 \$7.1 billion). Compared with 2016, operating cash flows in 2017 were impacted by improved business results, including a more favourable price environment and higher production, working capital effects, and a \$2.5 billion increase in income taxes paid. Movements in inventories and other current and non-current assets and liabilities adversely impacted cash flow in the year by \$3.4 billion. There was an adverse impact on working capital from the Gulf of Mexico oil spill of \$5.2 billion. Other working capital effects, arising from a variety of different factors had a favourable effect of \$1.8 billion. Receivables and inventories increased during the year principally due to higher oil prices. The effect of this on operating cash flow was more than offset by a corresponding increase in payables. BP actively manages its working capital balances to optimize cash flow. There was a decrease in net cash provided by operating activities of \$8.4 billion in 2016 compared with 2015, of which \$6.0 billion related to higher pre-tax cash outflows associated with the Gulf of Mexico oil spill. Cash flows were impacted by the continuing low oil price environment, with a lower average oil price in 2016 compared with 2015, working capital effects, and a reduction of \$0.7 billion in income taxes paid. Movements in inventories and other current and non-current assets and liabilities adversely impacted cash flow in 2016 by \$3.2 billion. There was an adverse impact from the Gulf of Mexico oil spill of \$4.8 billion. Other working capital effects, arising from a variety of different factors, had a favourable impact of \$1.6 billion. Inventories increased during 2016 because volumes were increased in our trading business to benefit from market opportunities, and due to higher prices towards the end of the year. The increase in inventory was largely offset by a corresponding increase in payables, limiting the increase in working capital.

See Glossary

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From our headquarters in London to the underwater facilities in Western Australia – our modernization programme is transforming how we work across BP. We are simplifying how we operate to create a more agile organization and working to change mindsets so that they fit the increasingly competitive and margin-dependent industry. At the same time, we're digitizing and automating more of our work. We are in the process of systematically migrating our vast amounts of data from physical centres to the cloud, embracing the agility and power of cloud technologies, while maintaining necessary levels of data security. We have already moved our corporate website to Amazon Web Services®, and we now plan to close all our physical datacentres over several years, fully embracing the agility and power of cloud technologies. Microsoft Azure® is intended to become a group-wide platform for collaboration and data analytics, with services such as visualization and predictive tools to help us analyse data, gain insights and make decisions faster. We are also piloting the use of blockchain database technology in our oil and gas trading business to help increase efficiency in terms of speed and verification of transactions. Blockchain is a digital ledger system that records online transactions and helps to streamline financial processes and cut back office costs. Modernizing the whole group Speedier solutions Activity on W,000 servers in four datacentres moving to the cloud Strategic report – performance BP Annual Report and Form 20-F 2017/23 Strategic report – performance

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Net cash used in investing activities Net cash used in investing activities for the year ended 31 December R017 decreased by \$0.7 billion compared with 2016. The decrease mainly reflected an increase of \$0.8 billion in disposal proceeds. The decrease of \$2.5 billion in 2016 compared with 2015 reflected a reduction in cash outflow in respect of capital expenditure, including investment in joint ventures and associates, of \$2.8 billion. The reduction in cash capital expenditure in 2016 reflected the group's response to the lower oil price environment. There were no significant cash flows in respect of acquisitions in 2017, R016 and 2015. The group has had significant levels of capital investment for many years. Total capital expenditure for 2017 was \$17.8 billion (2016 \$17.5 billion), of which organic capital expenditure was \$16.5 billion (2016 \$16.7 billion). Sources of funding are fungible, but the majority of the group's funding requirements for new investment comes from cash generated by existing operations. We expect organic capital expenditure to be in the range of \$15-16 billion in 2018. Disposal proceeds for 2017 were \$3.4 billion (2016 \$2.6 billion, 2015 \$2.8 billion), including amounts received for the disposal of our interest in the SECCO joint venture. In addition, we received \$0.8 billion in relation to the initial public offering of BP Midstream Partners LP's common units, shown within financing activities in the cash flow statement, and total proceeds for the year were \$4.3 billion. In 2016 disposal proceeds included amounts received for the sale of certain midstream assets in the Downstream fuels business and our Decatur petrochemicals complex. In addition, we received \$0.6 billion in relation to the sale of 20% from our shareholding in Castrol India Limited, shown within financing activities in the cash flow statement, giving total proceeds of \$3.2 billion for the year. We expect disposal proceeds to be in the range of \$2-3 billion in 2018. Net cash used in financing activities Net cash used in financing activities for the year ended 31 December R017 was \$3.3 billion, compared with \$2.0 billion provided by financing activities in 2016. This was mainly the result of a reduction of \$3.5 billion in net proceeds from financing. The total dividend paid in cash in 2017 was \$1.5 billion higher than in 2016, see below for further information. In 2016 the net cash provided by financing activities reflected higher net proceeds from financing of \$3.6 billion (\$4.0 billion higher net proceeds from long-term debt offset by a decrease of \$0.4 billion in short-term debt). In addition, there was a cash inflow of \$0.9 billion relating to increases in non-controlling interests, including the sale of 20% from our shareholding in Castrol India Limited described above. The total dividend paid in cash in 2016 was \$2.1 billion lower than in 2015 – see below for further information. Total dividends distributed to shareholders in 2017 were 40.00 cents per share, the same as 2016. This amounted to a total distribution to shareholders of \$7.9 billion (2016 \$7.5 billion, 2015 \$7.3 billion), of which shareholders elected to receive \$1.7 billion (2016 \$2.9 billion, R015 \$0.6 billion) in shares under the scrip dividend programme. The total amount distributed in cash amounted to \$6.2 billion during the year (2016 \$4.6 billion, 2015 \$6.7 billion). Debt Gross debt at the end of 2017 increased by \$4.9 billion from the end of R016. The gross debt ratio at the end of 2017 increased by 1%. Net debt at the end of 2017 increased by \$2.3 billion from the 2016 year-end position. The net debt ratio at the end of 2017 increased by 0.6%. We continue to target a net debt ratio in the range of 20-30%. Net debt and the net debt ratio are non-GAAP measures. See Financial statements – Note 25 for gross debt, which is the nearest equivalent measure on an IFRS basis, and for further information on net debt. Cash and cash equivalents at the end of 2017 were \$2.1 billion higher than 2016. For information on financing the group's activities, see Financial statements – Note 27 and Liquidity and capital resources on page 251. Group reserves and production (including Rosneft segment)^a 2017 2016 2015 Estimated net proved reserves (net of royalties) Liquids (mmb) 10,672 10,333 9,560 Natural gas (bcf) 45,060 43,368 44,197 Total hydrocarbons (mmb) 18,441 17,810 17,180 Of which: Equity-accounted entities^b 8,949 8,679 7,928 Production (net of royalties) Liquids (mb/d) 2,260 2,048 2,007 Natural gas (mmcf/d) 7,744 7,075 7,146 Total hydrocarbons (mboe/d) 3,595 3,268 3,239 Of which: Subsidiaries 2,164 1,939 1,969 Equity-accounted entities^c 1,431 1,329 1,270

Because of rounding, some totals may not agree exactly with the sum of their component parts. ^b Includes BP's share of Rosneft. See Rosneft on page 38 and Supplementary information on oil and natural gas on page 191 for further information. ^c Includes BP's share of Rosneft. See Rosneft on page 38 and Oil and gas disclosures for the group on page 259 for further information. Total hydrocarbon proved reserves at 31 December 2017, on an oil-equivalent basis including equity-accounted entities, increased by T% compared with 31 December 2016. The change includes a net increase from acquisitions and disposals of 47mmb (increase of 90mmb within our subsidiaries, decrease of 43mmb within our equity-accounted entities). Acquisition activity in our subsidiaries occurred in Egypt, the US and the UK, and divestment activity in our subsidiaries was in the UK. In our equity-accounted entities, acquisitions occurred in Aker BP and Rosneft and divestments occurred in Aker BP and in Pan American Energy. Our total hydrocarbon production for the group was 10% higher compared with 2016. The increase comprised a 12% increase (12% increase for liquids and 11% increase for gas) for subsidiaries and an 8% increase (9% increase for liquids and 5% increase for gas) for equity-accounted entities. Above: On board Glen Lyon, our floating production storage and offloading vessel in the UK North Sea. See Glossary

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BP Annual Report and Form 20-F 2017 25 See Glossary Principle 2017 achievement 2018 guidance Looking ahead – 2019 to 2021 Nearest GAAP equivalent measures * Capital expenditure : \$17.8 billion. ** Gross debt ratio: 38.6%. *** Numerator: Profit attributable to BP shareholders \$3.4 billion; Denominator: Average capital employed \$159.4 billion. BP's financial framework underpins our commitment to sustain the dividend for our shareholders. We have been meeting those expectations each year. We expect our strong balance sheet to be able to deal with any near-term volatility. Beyond that, we aim to increase operating cash flow – from our planned upstream start-ups and growth in the downstream. With a constant capital frame, we intend to grow sustainable free cash flow and distributions to shareholders in the long term. Our financial framework Focused on delivering competitive returns Optimize capital expenditure Organic capital expenditure a was \$16.5 billion*. This was within our original guidance of \$15-17 billion. We expect organic capital expenditure of \$15-16 billion. We expect organic capital expenditure of \$15-17 billion per year. Make selective divestments Total divestment and other proceeds of \$4.3 billionb achieved. This was just under our expected guidance of \$4.5-5.5 billion for the year. We expect divestments of \$2-3 billion. We expect \$2-3 billion of divestments per year. Payments related to the Gulf of Mexico oil spill 2017 payments totalled \$5.2 billion. We expect just over \$3 billion of cash payments. We expect around \$2 billion in R019, then stepping down to around \$1 billion per year. Maintain flexibility around gearing Gearing at the end of 2017 was 27.4%** within our target range. Within the 20-30% band. Within the 20-30% band. Group return on average capital employed (ROACE) ROACE was 5.8%***. Further improvement. We are aiming to exceed Q0% by 2021 at real oil prices around \$55/barrel. a From 2017 onwards we are reporting organic, inorganic and total capital expenditure on a cash basis, which were previously reported on an accruals basis. This aligns with BP's financial framework and is now consistent with other financial metrics used when comparing sources and uses of cash. b This includes proceeds of \$0.8 billion received in relation to the initial public offering of BP Midstream Partners LP's common units. Divestment proceeds for 2017 were \$3.4 billion. Strategic report – perform ance

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BP Annual Report and Form 20-F 201726 2017 was a strong year of delivery, demonstrated by the start-up of seven major projects. This shows we are creating real value and tangible growth – with opportunities out to 2021 and beyond. Bernard Looney, chief executive, Upstream 28,000km2 94.7% 6 new exploration access (2016 71,000km2) BP-operated upstream plant reliability (2016 95.3%) successful completion of turnarounds (2016 11) 3 80.5% 2.5 final investment decisions (2016 5) BP-operated upstream operating efficiency million barrels of oil equivalent per day – hydrocarbon production (2016 2.2mboe/d) Upstream See Glossary The global wells organization and the global projects organization are responsible for the safe, reliable and compliant execution of wells (drilling and completions) and major projects. The exploration function is responsible for renewing our resource base through access, exploration and appraisal, while the reservoir development function is responsible for the stewardship of our resource portfolio over the life of each field. The global operations organization is responsible for safe, reliable and compliant operations, including upstream production assets and midstream transportation and processing activities. Quality execution We want to be the best at what we do – everywhere we work. This starts with executing our activity safely. In every basin, we will benchmark against the competition and aim to be the best – whether it be operating facilities reliably and cost effectively, with a focus on emissions, drilling wells, managing our reservoirs, exploring, building projects, or deploying technology. Through the quality of our execution, scale and infrastructure, we aim to be the low-cost developer and producer in each basin, and as a business, get more from a unit of capital than our competitors. Growing gas and advantaged oil We will manage our portfolio through disciplined investment in the world’s best oil and gas basins. We plan to grow both oil and gas production. Natural gas is a big lever for reducing greenhouse gas emissions. This means taking a leadership role in tackling the challenge of methane. Around half of our portfolio is currently gas and we expect this to grow as we bring our major projects on line. Our gas portfolio will be complemented by advantaged oil assets – oil we can produce at a higher margin or at a lower cost, creating a portfolio that is resilient whatever the price environment. Returns-led growth We want to grow – but not at any cost. We always look to grow returns and value. We believe this growth will come from many sources – production growth, expanding and managing our margins, operational efficiency, unit cost reduction, and capital efficiency with disciplined levels of capital reinvestment. Strategy Our strategy has three parts and is enabled by: Exploration Global wells organization Global operations organization Business model The Upstream segment is responsible for our activities in oil and natural gas exploration, field development and production. We do this through five global technical and operating functions:

| | 2017 | 2016 | 2015 | 2014 | 2013 | Replacement cost (RC) | profit (loss) before interest and tax | Underlying RC | | | | |
|---------------------------------------|-------------------------------------|------|------|------|------|-----------------------|---------------------------------------|---------------|------|-----|------|----|
| profit (loss) before interest and tax | Upstream profitability (\$ billion) | -0.9 | 0.6 | 5.2 | 5.9 | -0.5 | 1.2 | 15.2 | 18.3 | 8.9 | 16.7 | In |

summary

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BP Annual Report and Form 20-F 2017 27 Expanding gas projects in Trinidad Growing gas and advantaged oil Trinidad & Tobago is a key contributor to BP's growing gas portfolio and 2017 was a pivotal year for our business in the country. We started up two major gas projects in 2017: Juniper – our first subsea field development in Trinidad and the area's largest project for several years, and Trinidad onshore compression – the first project of its kind in the region and for BP. And we completed the Sercan 2 field development – a joint venture with EOG Resources. But these are just the start. We also made two significant gas discoveries with our Savannah and Macadamia exploration wells in offshore Trinidad. This demonstrates the benefit of our investment in seismic technology, which is helping us access the full potential of the Columbus Basin. Our next planned major project in Trinidad is the development of the Angelin natural gas field, which will include construction of our fifteenth offshore production facility in Trinidad. We expect first gas in early 2019. Largest contributor to natural gas production in Trinidad U0+ years In addition to our core Upstream exploration, development and production activities, the segment is responsible for midstream transportation, storage and processing. We also market and trade natural gas, including liquefied natural gas (LNG), power and natural gas liquids (NGL). In 2017 our activities took place in 29 countries. With the exception of our US Lower 48 onshore business, we deliver our exploration, development and production activities through five global technical and operating functions. We optimize and integrate the delivery of these activities across 13 regions, with support provided by global functions in specialist areas of expertise: technology, finance, procurement and supply chain, human resources, information technology and legal. The US Lower 48 continues to operate as a separate, asset-focused, onshore business. In 2016 we identified a future growth target of 900,000 barrels of oil equivalent per day of production from new projects by 2021 and we remain on track to deliver that. We expect this production to deliver 35% higher operating cash margins on average than our 2015 upstream assets, which supports our value over volume strategy. We see our scale and long history in many of the great basins in the world as a differentiator for BP and believe in the strength of our incumbent positions. We are resilient and balanced – in terms of geography, hydrocarbon type and geology – and rather than being restricted by a traditional way of working, we have and will continue to use creative business models to generate value. We are also investing to modernize and transform the Upstream – embracing innovation, digitization and the adoption of big data, which we believe can drive a real step change in performance and efficiency. Extending the life of our Galeota terminal for 20+ years 15 million tonnes per annum capacity at our Atlantic liquefaction plant BP Annual Form 20-F 2017 See Glossary Strategic report – performance

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BP Annual Report and Form 20-F 2017 28 Financial performance \$ million 2017 2016 2015 Sales and other operating revenues a 45,440 33,188 43,235 RC profit (loss) before interest and tax 5,221 574 (937) Net (favourable) adverse impact of non-operating items and fair value accounting effects 644 (1,116) 2,130 Underlying RC profit (loss) before interest and tax 5,865 (542) 1,193 Organic capital expenditure b 13,763 14,344 N/A BP average realizations c \$ per barrel Crude oil 51.71 39.99 49.72 Natural gas liquids 26.00 17.31 20.75 Liquids 49.92 38.27 47.32 \$ per thousand cubic feet Natural gas 3.19 2.84 3.80 US natural gas 2.36 1.90 2.10 \$ per barrel of oil equivalent Total hydrocarbons 35.38 28.24 35.46 Average oil marker prices \$ per barrel Brent 54.19 43.73 52.39 West Texas Intermediate 50.79 43.34 48.71 Average natural gas marker prices \$ per million British thermal units Average Henry Hub gas price f 3.11 2.46 2.67 pence per therm Average UK National Balancing Point gas price e 44.95 34.63 42.61 a Includes sales to other segments. b A reconciliation to GAAP information at the group level is provided on page 249. Organic capital expenditure on a cash basis in 2015 is not available. c Realizations are based on sales by consolidated subsidiaries only, which excludes equity-accounted entities. d Includes condensate and bitumen. e All traded days average. f Henry Hub First of Month Index. Market prices Brent remains an integral marker to the production portfolio, from which a significant proportion of production is priced directly or indirectly. Certain regions use other local markers that are derived using differentials or a lagged impact from the Brent crude oil price. 90 60 30 120 150 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Brent (\$/bbl) 2016 2017 2015 Five-year range The dated Brent price in 2017 averaged \$54.19 per barrel. Prices drifted lower over the first half of the year before rebounding, ending the year at their monthly high point, averaging \$64 in December. After falling in R016, non-OPEC production recovered (+0.8mmb/d), led by the US. In contrast OPEC production declined by 0.4mmb/d – the first decline since 2013 – as the group engaged with certain non-OPEC producers to restrain output. V 3 9 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Henry Hub (\$/mmBtu) 2016 2017 2015 Five-year range The 2017 Henry Hub First of Month Index price was higher than 2016 (\$2.46). The UK National Balancing Point hub price was 44.95 pence per therm, 50% higher than in 2016 (34.63), supported by increasing coal prices. Meanwhile pipeline outages and cold weather put pressure on UK prices towards the end of 2017. For more information on the global energy market in 2017 see page 20. Financial results Sales and other operating revenues for 2017 increased compared with R016, primarily reflecting higher liquids realizations, higher production and higher gas marketing and trading revenues. The decrease in 2016 compared with 2015 primarily reflected lower liquids and gas realizations and lower gas marketing and trading revenues. See Glossary Above: Dolphin Island vessel overlooking our Atlantis platform in the Gulf of Mexico.

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BP Annual Report and Form 20-F 2017 29 Replacement cost profit before interest and tax for the segment included a net non-operating charge of \$671 million. This primarily relates to impairment charges associated with a number of assets, following changes in reserves estimates, and the decision to dispose of certain assets. See Financial statements – Note 4 for further information. Fair value accounting effects had a favourable impact of \$27 million relative to management’s view of performance. The 2016 result included a net non-operating gain of \$1,753 million, primarily related to the reversal of impairment charges associated with a number of assets, following a reduction in the discount rate applied and changes to future price assumptions. Fair value accounting effects had an adverse impact of \$637 million. The 2015 result included a net non-operating charge of \$2,235 million, primarily related to a net impairment charge associated with a number of assets, following a further fall in oil and gas prices and changes to other assumptions. Fair value accounting effects had a favourable impact of \$105 million relative to management’s view of performance. After adjusting for non-operating items and fair value accounting effects, the underlying replacement cost result before interest and tax was a profit, compared with a loss in 2016. This improved result primarily reflected higher liquids realizations, and higher production including the impact of the Abu Dhabi onshore concession renewal and major projects start-ups, partly offset by higher depreciation, depletion and amortization, and higher exploration write-offs. Compared with 2015 the 2016 result reflected significantly lower liquids and gas realizations, as well as adverse foreign exchange impacts and lower gas marketing and trading results. This was partly offset by lower costs including benefits from simplification and efficiency activities, lower exploration write-offs, lower depreciation, depletion and amortization expense and lower rig cancellation charges. Organic capital expenditure on a cash basis was \$13.8 billion. In total, disposal transactions generated \$1.2 billion in proceeds in 2017, with a corresponding reduction in net proved reserves of 10.6mmboe within our subsidiaries. The major disposal transactions during 2017 were the disposal of 25% of our interest in the Magnus field in the UK and a portion of our interests in the Perdido offshore hub in the US. More information on disposals is provided in Upstream analysis by region on page 253 and Financial statements – Note 3. Outlook for 2018 • We expect to start up six new major projects in 2018. • We expect underlying production to be higher than 2017. The actual reported outcome will depend on the exact timing of project start-ups, acquisitions and divestments, OPEC quotas and entitlement impacts in our production-sharing agreements. • Capital investment is expected to decrease, largely reflecting our commitment to continued capital discipline and the rephasing and refocusing of our activities and major projects where appropriate in response to the current business environment. • We expect oil prices will continue to be challenging in the near term. Exploration The group explores for oil and natural gas under a wide range of licensing, joint arrangement and other contractual agreements. We may do this alone or, more frequently, with partners. Our exploration and new access teams work to enable us to optimize our resource base and provide us with a greater number of options. In the current environment, we are spending less on exploration and we will spend a material part of our exploration budget on lower-risk, shorter-cycle-time opportunities around our incumbent positions. New access in 2017 We gained access to new acreage covering almost 28,000km² in eight countries – Brazil, Canada, Côte D’Ivoire, Mauritania, Mexico, Senegal, the UK and the US. Exploration success We participated in six potentially commercial discoveries in 2017 – Qattameya in Egypt, Macadamia and Savannah in Trinidad, Yakaar-1 in Senegal, and Achmelvich and Capercaillie in the UK. Exploration and appraisal costs Excluding lease acquisitions, the costs for exploration and appraisal were \$1,655 million (2016 \$1,402 million, 2015 \$1,794 million). These costs included exploration and appraisal drilling expenditures, which were capitalized within intangible fixed assets, and geological and geophysical exploration costs, which were charged to income as incurred. Approximately 12% of exploration and appraisal costs were directed towards appraisal activity. We participated in 41 gross (25.03 net) exploration and appraisal wells in nine countries. Exploration expense Total exploration expense of \$2,080 million (2016 \$1,721 million, R015 \$2,353 million) included the write-off of expenses related to unsuccessful drilling activities, lease expiration or uncertainties around development in Angola (\$729 million), Egypt (\$368 million), the Gulf of Mexico (\$213 million) and others (\$349 million), partially offset by a net write-back of \$56 million in block KG D6 in India (see Financial statements – Note 6). Reserves booking Reserves bookings from new discoveries will depend on the results of ongoing technical and commercial evaluations, including appraisal drilling. The segment’s total hydrocarbon reserves on an oil-equivalent basis, including equity-accounted entities at 31 December 2017, increased by 2% (an increase of 4% for subsidiaries and a decrease of 12% for equity-accounted entities) compared with proved reserves at 31 December 2016. Proved reserves replacement ratio The proved reserves replacement ratio for the segment in 2017 was Q27% for subsidiaries and equity-accounted entities (2016 96%), 133% for subsidiaries alone (2016 101%) and 78% for equity-accounted entities alone (2016 61%). For more information on proved reserves replacement for the group see page 259. Liquids Total 5,139 Total 5,437 Gas 1. Subsidiaries 4,447 R. Equity-accounted entities 692 3. Subsidiaries 5,045 T. Equity-accounted entities 392 2 4 3 1 Upstream proved reserves (mmboe) See Glossary Strategic report – performance

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BP Annual Report and Form 20-F 201730 Estimated net proved reserves (net royalties)a 2017 2016 2015 Liquids million barrels Crude oilb
Subsidiaries 4,129 3,778 3,560 Equity-accounted entitiesc 674 771 694 4,803 4,549 4,254 Natural gas liquids Subsidiaries 318 373 422
Equity-accounted entitiesc 18 16 13 336 389 435 Total liquids Subsidiariesd 4,447 4,151 3,982 Equity-accounted entitiesc 692 787 707 5,139 4,938
4,689 Natural gas billion cubic feet Subsidiariese 29,263 28,888 30,563 Equity-accounted entitiesc 2,274 2,580 2,465 31,537 31,468 33,027 Total
hydrocarbons million barrels of oil equivalent Subsidiaries 9,492 9,131 9,252 Equity-accounted entitiesc 1,085 1,232 1,132 10,577 10,363 10,384 a
Because of rounding, some totals may not agree exactly with the sum of their component parts. b Includes condensate and bitumen. c BP's share of
reserves of equity-accounted entities in the Upstream segment. During 2017 upstream operations in Argentina, Bolivia, Russia and Norway as well as some of
our operations in Angola, Abu Dhabi and Indonesia, were conducted through equity-accounted entities. d Includes 14 million barrels (16 million barrels
at 31 December 2016 and 19 million barrels at 31 December 2015) in respect of the 30% non-controlling interest in BP Trinidad & Tobago LLC. e
Includes 1,860 billion cubic feet of natural gas (2,026 billion cubic feet at 31 December 2016 and 2,359 billion cubic feet at 31 December 2015) in respect of
the 30% non-controlling interest in BP Trinidad & Tobago LLC. Developments We achieved seven major project start-ups in 2017: one in Australia,
two in Egypt, one in Oman, two in Trinidad, and one in the UK North Sea. In addition to these, we made good progress on projects in AGT (Azerbaijan,
Georgia, Turkey), Egypt, the Gulf of Mexico, and the UK. • Azerbaijan, Georgia, Turkey – the Shah Deniz Stage 2 project is now almost 99% complete in
terms of engineering, procurement, construction and commissioning and remains on target for production of first gas in 2018. • Egypt – work to achieve
start-up of the Giza/Fayoum wells in late 2018 is underway in the West Nile Delta with a revised scope and an amended plan of development. • Gulf of
Mexico – the first development well on the Anadarko-operated Constellation project was drilled and completed in 2017. First production is expected in late
2018. • UK – commissioning offshore is well underway at the Clair Ridge development following completion of the construction phase in 2016. First oil is
expected in 2018. Subsidiaries' development expenditure incurred, excluding midstream activities, was \$10.7 billion (2016 \$11.1 billion, 2015 \$13.5
billion). Project Location Type 2017 start-ups Juniper* Trinidad Khazzan Phase 1* Oman Persephone Australia Trinidad onshore compression*
Trinidad West Nile Delta Taurus/Libra* Egypt Zohr Egypt Quad 204* UK North Sea Expected start-ups 2018-2021 Design and appraisal phase
Cassia compression Trinidad KG D6 D55 India KG D6 Satellites India Khazzan Phase 2* Oman Tortue Phase 1* Mauritania and Senegal
Alligin* UK North Sea Atlantis Phase 3* US Gulf of Mexico Vorlich* UK North Sea Zinia 2 Angola Expected start-ups 2018-2021 Projects
currently under construction Angelin* Trinidad Atoll Phase 1*a Egypt Culzean UK North Sea KG D6 R-Series India Shah Deniz Stage 2*
Azerbaijan Tangguh expansion* Indonesia West Nile Delta Giza/Fayoum* Egypt Western Flank B Australia Clair Ridge* UK North Sea
Constellation US Gulf of Mexico Mad Dog Phase 2* US Gulf of Mexico Taas Expansion Russia Thunder Horse North West Expansion* US Gulf of
Mexico Beyond 2021 We have a deep hopper of projects that are currently under appraisal. Our focus here is to ensure we maximize value and select
the optimum project concept before we move it forward into design. We do not expect to progress all of the projects – only the best. This includes: • a mix
of resource types: split across conventional oil, deepwater oil, conventional gas and unconventionals. • geographic spread: across six of the seven
continents. • a range of development types: from exploration to brownfield and near-field. Our project pipeline *BP operated Gas Oil See
Glossary a Production commenced in early 2018.

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BP Annual Report and Form 20-F 2017 31 Gas marketing and trading activities Our integrated supply and trading function markets and trades our own and third-party natural gas (including LNG), biogas, power and NGLs. This provides us with routes into liquid markets for the gas we produce and generates margins and fees from selling physical products and derivatives to third parties, together with income from asset optimization and trading. This means we have a single interface with gas trading markets and one consistent set of trading compliance and risk management processes, systems and controls. We are expanding our LNG portfolio, which includes global partnerships with utility companies, gas distributors and national oil and gas companies, and in R017 we supplied the first commercial LNG contact based on offshore ship-to-ship transfer. The activity primarily takes place in North America, Europe and Asia, and supports group LNG activities, managing market price risk and creating incremental trading opportunities through the use of commodity derivative contracts. It also enhances margins and generates fee income from sources such as the management of price risk on behalf of third-party customers. Our trading financial risk governance framework is described in Financial statements – Note 27 and the range of contracts used is described in Glossary – commodity trading contracts on page 289.

Production Our offshore and onshore oil and natural gas production assets include wells, gathering centres, in-field flow lines, processing facilities, storage facilities, offshore platforms, export systems (e.g. transit lines), pipelines and LNG plant facilities. These include production from conventional and unconventional (coalbed methane and shale) assets. Our principal areas of production are Angola, Argentina, Australia, Azerbaijan, Egypt, Iraq, Trinidad, the UAE, the UK and the US. With BP-operated plant reliability increasing from around 86% in R011 to 95% in 2017, efficient delivery of turnarounds and strong infill drilling performance, we have maintained base decline at less than 5% on average over the last five years. Our long-term expectation for managed base decline remains at the 3-5% per annum guidance we have previously given.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|------|------|----------------------------------|------------------------|--------------|-------|-----|-----|--|-----|-----|-----|-------|-------|-------|---------------------|--------------|----|----|----|--|---|---|---|----|----|----|---------------|--------------|-------|-------|-------|--|-----|-----|-----|-------|-------|-------|--|--------------|-------|-------|-------|--|-----|-----|-----|-------|-------|-------|---|--------------|-------|-------|-------|--|-----|-----|-----|-------|-------|-------|
| Production (net of royalties) ^a | 2017 | 2016 | 2015 | Liquids thousand barrels per day | Crude oil ^b | Subsidiaries | 1,064 | 943 | 933 | Equity-accounted entities ^c | 199 | 179 | 165 | 1,263 | 1,122 | 1,099 | Natural gas liquids | Subsidiaries | 85 | 82 | 88 | Equity-accounted entities ^c | 8 | 4 | 7 | 93 | 86 | 95 | Total liquids | Subsidiaries | 1,149 | 1,025 | 1,022 | Equity-accounted entities ^c | 207 | 184 | 172 | 1,356 | 1,208 | 1,194 | Natural gas million cubic feet per day | Subsidiaries | 5,889 | 5,302 | 5,495 | Equity-accounted entities ^c | 547 | 494 | 456 | 6,436 | 5,796 | 5,951 | Total hydrocarbons thousand barrels of oil equivalent per day | Subsidiaries | 2,164 | 1,939 | 1,969 | Equity-accounted entities ^c | 302 | 269 | 251 | 2,466 | 2,208 | 2,220 |
|--|------|------|------|----------------------------------|------------------------|--------------|-------|-----|-----|--|-----|-----|-----|-------|-------|-------|---------------------|--------------|----|----|----|--|---|---|---|----|----|----|---------------|--------------|-------|-------|-------|--|-----|-----|-----|-------|-------|-------|--|--------------|-------|-------|-------|--|-----|-----|-----|-------|-------|-------|---|--------------|-------|-------|-------|--|-----|-----|-----|-------|-------|-------|

^a Because of rounding, some totals may not agree exactly with the sum of their component parts. ^b Includes condensate and bitumen. ^c Includes BP's share of production of equity-accounted entities in the Upstream segment. Our total hydrocarbon production for the segment in 2017 was 11.7% higher compared with 2016. The increase comprised an 11.6% increase (12.1% for liquids and 11.1% for gas) for subsidiaries and a 12.2% increase (12.9% for liquids and 10.8% for gas) for equity-accounted entities compared with 2016. For more information on production see Oil and gas disclosures for the group on page 259. In aggregate, underlying production increased versus 2016. The group and its equity-accounted entities have numerous long-term sales commitments in their various business activities, all of which are expected to be sourced from supplies available to the group that are not subject to priorities, curtailments or other restrictions. No single contract or group of related contracts is material to the group. Above: Smart glasses are used to share data with off-site technical experts at our Lower 48 operations in Colorado. Strategic report – performance

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Safe and reliable operations This remains our core value and first priority and we continue to drive improvement in personal and process safety performance. Profitable marketing growth We invest in higher-returning fuels marketing and lubricants businesses with growth potential and reliable cash flows. Advantaged manufacturing We aim to have a competitively advantaged refining and petrochemicals portfolio underpinned by operational excellence and to grow earnings potential, making the businesses more resilient to margin volatility. Simplification and efficiency This remains central to what we do to support performance improvement and make our businesses even more competitive. Transition to a lower carbon and digitally enabled future We are developing new products, offers and business models that support the transition to a lower carbon and digitally enabled future over the longer term. Business model The Downstream segment has global marketing and manufacturing operations. It is the product and service-led arm of BP, made up of three businesses: Manufactures and markets lubricants and related products and services to the automotive, industrial, marine and energy markets globally. We add value through brand, technology and relationships, such as collaboration with original equipment manufacturing partners. Includes refineries, logistic networks and fuels marketing businesses, which together with global oil supply and trading activities, make up our integrated fuels value chains (FVCs). We sell refined petroleum products including gasoline, diesel and aviation fuel, and have a significant presence in the convenience retail sector. Manufactures and markets products that are produced using industry-leading proprietary BP technology, and are then used by others to make essential consumer products such as food packaging, textiles and building materials. We also license our technologies to third parties. Strategy We aim to run safe and reliable operations across all our businesses, supported by leading brands and technologies, to deliver high-quality products and services that meet our customers' needs. Our strategy is to deliver underlying performance improvement in order to expand earnings and cash flow potential and improve our resilience to a range of market conditions. We also aim to further build competitively advantaged businesses. The execution of our strategy in 2017 has continued to deliver, with growth in underlying earnings and cash flow at attractive returns. Fuels >10% 1,100 44% fuels marketing earnings growth versus prior year (2016 >20%) convenience partnership sites (2016 880) of lubricant sales were premium grade (2016 43%) 95.3% 1.7 15.3 refining availability (2016 95.3%) million barrels of oil refined per day (2016 1.7mmb/d) million tonnes of petrochemicals produced (2016 14.2mmte) Downstream The execution of our strategy is delivering results and building a business that is fit for now and the future. In R017, we had our best year ever, with a replacement cost profit of \$7.2 billion. Tufan Erginbilgic, chief executive, Downstream See Glossary Lubricants Petrochemicals 2017 2016 2015 2014 2013 Downstream profitability (\$ billion) Replacement cost (RC) profit before interest and tax Underlying RC profit before interest and tax 7.1 7.2 7.0 7.5 3.7 4.4 2.9 3.6 5.2 5.6 BP Annual Report and Form 20-F 201732 In summary

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Growing retail business Every second of every day vehicles are filling up with BP fuel across 18,300 sites – making retail big business for BP. Our premium fuel volumes grew by 6% in 2017 and generated margins that are higher than our standard grades. With a retail network that spans 19 countries, we have one of the top three positions in terms of market share in most of the markets where we operate. But we're not stopping there. We also have a significant and growing retail convenience partnership offer which we plan to continue to expand across our markets. This builds on the success we have had with other industry leading food retailers – like M&S Simply Food® and REWE to go®. Our loyalty schemes, such as PAYBACK® and Nectar®, are helping to strengthen customer relationships in key markets – with loyalty card customers tending to shop more frequently and spend more per visit. We are also expanding our global portfolio into major growth markets such as Mexico, China and Indonesia. For the first time in 75 years, companies outside Mexico can invest in its fuels market. We were the first global brand to open retail sites there in early 2017 and by the end of the year we had more than 200 BP-branded sites, serving thousands of customers a day. Mexico is one of the world's largest consumer gasoline and diesel markets globally and we plan to have around 1,500 sites by 2021. Each day more than 250,000 consumers in Mexico are choosing BP's differentiated offer. Market-led growth 15 countries is now available in 1,100 convenience partnership sites globally. Digital and advanced mobility We are rolling out new digital and advanced mobility customer offers. This includes our new BPme app, which helps customers find a convenient BP site, order coffee and pay for fuel from their vehicle, and our investment in FreeWire, a manufacturer of mobile electric vehicle rapid charging systems, which we plan to roll out to selected European retail sites in 2018. Strategic report – performance 33BP Annual Report and Form 20F-2017 Some examples of our partnerships.

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Financial performance \$ million 2017 2016 2015 Sale of crude oil through spot and term contracts 47,702 31,569 38,386 Marketing, spot and term sales of refined products 159,475 126,419 148,925 Other sales and operating revenues 12,676 9,695 13,258 Sales and other operating revenues 219,853 167,683 200,569 RC profit before interest and tax^b Fuels 4,679 3,337 5,858 Lubricants 1,457 1,439 1,241 Petrochemicals 1,085 386 12 7,221 5,162 7,111 Net (favourable) adverse impact of non-operating items and fair value accounting effects Fuels 193 390 137 Lubricants 22 84 143 Petrochemicals (469) (2) 154 (254) 472 434 Underlying RC profit before interest and tax^b Fuels 4,872 3,727 5,995 Lubricants 1,479 1,523 1,384 Petrochemicals 616 384 166 6,967 5,634 7,545 Organic capital expenditure c 2,399 2,102 N/A a Includes sales to other segments. b Income from petrochemicals produced at our Gelsenkirchen and Mülheim sites in Germany is reported in the fuels business. Segment-level overhead expenses are included in the fuels business result. c A reconciliation to GAAP information at the group level is provided on page 249. Organic capital expenditure on a cash basis in 2015 is not available. Financial results Sales and other operating revenues in 2017 were higher due to higher crude and product prices as well as higher sales volumes. Sales and other operating revenues in 2016 were lower than 2015 due to lower crude and product prices. Replacement cost (RC) profit before interest and tax for the year ended 31 December 2017 included a net non-operating gain of \$389 million, primarily reflecting the gain on disposal of our share in the SECCO joint venture in petrochemicals. The 2016 result included a net non-operating charge of \$24 million, mainly relating to a gain on disposal in our fuels business which was more than offset by restructuring and other charges, while the 2015 result included a net non-operating charge of \$590 million, mainly relating to restructuring charges. In addition, fair value accounting effects had an adverse impact of \$135 million, compared with an adverse impact of \$448 million in 2016 and a favourable impact of \$156 million in 2015. After adjusting for non-operating items and fair value accounting effects, underlying RC profit before interest and tax in 2017 was \$6,967 million. Outlook for 2018 We anticipate higher discounts for North American heavy crude oil differentials but lower industry refining margins. We also expect the level of turnaround activity to be similar in total, although higher in our petrochemicals business. Our fuels business Our fuels strategy focuses primarily on fuels value chains (FVCs). This includes building an advantaged refining portfolio through operating reliability and efficiency, location advantage and feedstock flexibility, as well as commercial optimization opportunities. We believe that having a quality refining portfolio connected to strong marketing positions is core to our integrated FVC businesses as this provides optimization opportunities in highly competitive markets. Our fuels marketing business comprises retail, business-to-business and aviation fuels. It is a material part of Downstream with a good track record of growth. We have an advantaged portfolio of assets with good growth potential, attractive returns and reliable cash flows. We continue to grow our fuels marketing business through our differentiated marketing offers and strategic convenience partnerships. We also partner with leading retailers, creating distinctive retail offers that aim to deliver good returns and reliable profit growth and cash generation. Underlying RC profit before interest and tax for our fuels business was higher compared with 2016, reflecting stronger refining performance and growth in fuels marketing, partially offset by a weaker contribution from supply and trading. Compared with 2015, the 2016 result was lower, reflecting a significantly weaker refining environment and the impact from a particularly large turnaround at our Whiting refinery. This was partially offset by lower costs, reflecting the benefits from our simplification and efficiency programmes, an increased fuels marketing performance driven by retail growth and higher refining margin capture in our operations. Refining marker margin We track the refining margin environment using a global refining marker margin (RMM). Refining margins are a measure of the difference between the price a refinery pays for its inputs (crude oil) and the market price of its products. Although refineries produce a variety of petroleum products, we track the margin environment using a simplified indicator that reflects the margins achieved on gasoline and diesel only. The RMM may not be representative of the margin achieved by BP in any period because of BP's particular refinery configurations and crude and product slates. In addition, the RMM does not include estimates of energy or other variable costs. \$ per barrel Region Crude marker 2017 2016 2015 US North West Alaska North Slope 18.8 16.9 24.0 US Midwest West Texas Intermediate 16.9 13.2 19.0 Northwest Europe Brent 11.7 10.0 14.5 Mediterranean Azeri Light 10.4 9.0 12.7 Australia Brent 12.9 10.9 15.4 BP RMM 14.1 11.8 17.0 Q6 8 24 32 Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec BP refining marker margin (\$/bbl) 2016 2017 2015 Five-year range See Glossary BP Annual Report and Form 20-F 201734

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The average global RMM in 2017 was \$14.1/bbl, \$2.3/bbl higher than in 2016. The increase was driven by tighter global supply demand balances as well as lower product inventories compared with 2016. Refining At 31 December 2017 we owned or had a share in 11 refineries producing refined petroleum products that we supply to retail and commercial customers. For a summary of our interests in refineries and average daily crude distillation capacities see page 258. Underlying growth in our refining business is underpinned by our multi-year business improvement plans, which comprise globally consistent programmes focused on operating reliability and efficiency, advantaged feedstocks and commercial optimization. Operating reliability is a core foundation of our refining business and in 2017 operations remained strong, with refining availability sustained at around 95.3%, refinery utilization rates at 90% (2016 91%) and overall throughputs in 2017 higher compared with 2016. Our refinery portfolio – along with our supply capability – enables us to process advantaged crudes. For example, in the US, our three refineries all have location- advantaged access to Canadian crudes which are typically cheaper than other crudes. In 2017 we processed record levels of advantaged crude across our portfolio. Our commercial optimization programme aims to maximize value from our refineries by capturing opportunities in every step of the value chain, from crude selection through to yield optimization and utilization improvements. Refining performance was stronger in 2017 compared with 2016, reflecting continued strong operational performance, capturing higher industry refining margins, efficiency benefits as well as increased commercial optimization including the benefits of higher levels of advantaged feedstock. This was, however, partially offset by a higher level of planned turnaround activity. This stronger performance in 2017 resulted in an underlying improvement of more than 15% in our net cash margin per barrel. Compared with 2015, refining performance in 2016 was lower, reflecting a significantly weaker refining environment and the impact of a particularly large turnaround at the Whiting refinery. This was partially offset by higher refining margin capture in our operations and lower costs from our simplification and efficiency programmes.

| | 2017 | 2016 | 2015 |
|---|----------------|--------------------|-----------------------------|
| Refinery throughputs a thousand barrels per day | US 713 646 657 | Europe 773 803 794 | Rest of world b 216 236 254 |
| Total | 1,702 | 1,685 | 1,705 |
| % Refining availability | 95.3 | 95.3 | 94.7 |

Refineries throughputs reflect crude oil and other feedstock volumes. b Bulwer refinery in Australia ceased refining operations in 2015. Fuels marketing and logistics Across our fuels marketing businesses, we operate an advantaged infrastructure and logistics network that includes pipelines, storage terminals and tankers for road and rail. We seek to drive excellence in operational and transactional processes and deliver compelling customer offers in the various markets where we operate. Through our retail business, we supply fuel and convenience retail services to consumers through company-owned and franchised retail sites, as well as other channels, including dealers and jobbers. We also supply commercial customers in the transport and industrial sectors. Retail is the most material part of our fuels marketing business and a significant source of earnings growth through our strong market positions, brands and distinctive customer offers. This is underpinned by the strength of our retail convenience partnerships, technology such as our most advanced premium fuels and our use of digital technology, as well as our customer relationships. This differentiation enables our growth in existing markets and supports our plans to expand our footprint in new material markets such as Mexico, India, Indonesia and China. In Mexico we became the first international oil company to open a branded network since deregulation of the fuel market, and we announced new retail joint ventures in Indonesia and, most recently, China in February 2018. We have a clear strategic frame to develop new customer offers in mobility and to transition our business to a lower carbon future over the longer term, building on our capabilities, retail assets and brand strengths. We are actively developing new offers and business models centred around digital and advanced mobility trends, for example we have invested in FreeWire Technologies Inc., a manufacturer of mobile electric vehicle rapid charging systems, and we have plans to roll out FreeWire’s Mobi Charger units at selected BP retail sites in Europe in 2018, see Innovation in BP on page 46. Our acquisition of Clean Energy Fuel Corporation’s biomethane production assets in 2017 means we are now the largest supplier of renewable natural gas to the US transport sector. In 2017, we also completed the initial public offering of common units in BP Midstream Partners LP, our subsidiary, which has interests in certain crude oil, natural gas and refined product pipelines in the US. See Glossary Above: Engineers at our Cherry Point refinery in the US. BP Annual Report and Form 20-F 2017 35 Strategic report – performance

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Above: Over-wing fuelling at Adelaide airport in Australia. Fuels marketing performance in 2017 was higher compared with 2016, reflecting continued earnings growth supported by higher premium fuel volumes, which grew by 6%, and the continued rollout of our convenience partnership model to over 220 more sites, bringing the total number of convenience partnership sites to 1,100 across our retail network. Compared with 2015, fuels marketing performance in 2016 was higher, reflecting retail growth. thousand barrels per day Sales volumes 2017 2016 2015 Marketing salesa 2,799 2,825 2,835 Trading/supply salesb 3,149 2,775 2,770 Total refined product sales 5,948 5,600 5,605 Crude oilc 2,616 2,169 2,098 Total 8,564 7,769 7,703 a Marketing sales include branded and unbranded sales of refined fuel products and lubricants to both business-to-business and business-to-consumer customers, including service station dealers, jobbers, airlines, small and large resellers such as hypermarkets as well as the military. b Trading/supply sales are fuel sales to large unbranded resellers and other oil companies. c Crude oil sales relate to transactions executed by our integrated supply and trading function, primarily for optimizing crude oil supplies to our refineries and in other trading. 2017 includes Q03 thousand barrels per day relating to revenues reported by the Upstream segment. Number of BP-branded retail sites Retail sitesd 2017 2016 2015 US 7,200 7,100 7,000 Europe 8,100 8,100 8,100 Rest of world 3,000 2,800 2,900 Total 18,300 18,000 18,000 d Reported to the nearest 100. Includes sites not operated by BP but instead operated by dealers, jobbers, franchisees or brand licensees under a BP brand. These may move to or from the BP brand as their fuel supply or brand licence agreements expire and are renegotiated in the normal course of business. Retail sites are primarily branded BP, ARCO and Aral and include our interest in equity-accounted entities. Aviation Our Air BP business is one of the world's largest aviation fuels suppliers, selling fuel to major commercial airlines as well as the general aviation sector in over 800 locations across more than 50 countries globally. We also provide aviation fuel consultancy services to airlines and airports including the design, build and operation of aviation fuelling facilities. Our Air BP business is differentiated through its strong market positions, brand strength, partnerships, technology and customer relationships. Our strategy aims to maintain a strong presence in our core locations in Australia, New Zealand, Europe and the US, while expanding into major growth markets that offer long-term competitive advantages, such as in Asia and Latin America. We have marketing sales of more than 420,000 barrels per day, and in 2017 began marketing in Mexico, one of the world's fastest-growing aviation markets. We are developing new offers and solutions in response to the needs of our customers. In 2017 we entered into a strategic partnership and preferred fuel supplier agreement with Victor, one of the world's leading on-demand marketplaces for private jet charters. We also recognize the lower carbon commitments of the airline industry and continue to develop our capability to meet the industry's needs. In 2017 we began supply of jet biofuel at two further locations in Sweden and Norway, in addition to Norway's Oslo airport where in 2016, we became the world's first supplier for commercial jet biofuel using existing fuelling infrastructure. Supply and trading Our integrated supply and trading function is responsible for delivering value across the overall crude and oil products supply chain. This structure enables our downstream businesses to maintain a single interface with oil trading markets and operate with one set of trading compliance and risk management processes, systems and controls. It has a two-fold purpose: First, it seeks to identify the best markets and prices for our crude oil, source optimal raw materials for our refineries and provide competitive supply for our marketing businesses. We will often sell our own crude and purchase alternative crudes from third parties for our refineries where this will provide incremental margin. Second, it aims to create and capture incremental trading opportunities by entering into a full range of exchange-traded commodity derivatives, over-the-counter contracts and spot and term contracts. In combination with rights to access storage and transportation capacity, this allows it to access advantageous price differences between locations and time periods, and to arbitrage between markets. The function has trading offices in Europe, North America and Asia. Our presence in the more actively traded regions of the global oil markets supports overall understanding of the supply and demand forces across these markets. Our trading financial risk governance framework is described in Financial statements – Note 27 and the range of contracts used is described in Glossary – commodity trading contracts on page 289. See Glossary BP Annual Report and Form 20-F 201736

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which include operational efficiency, deploying our industry-leading proprietary technology, commercial optimization and competitive feedstock sourcing. We also aim to grow our third-party technology licensing income to create additional value. In line with our strategy to focus our portfolio on areas where we have industry-leading proprietary technologies and competitive advantage, in 2017 we divested our 50% shareholding in the Shanghai SECCO Petrochemical Company Limited joint venture in China for a consideration of \$1.7 billion. In 2017 the petrochemicals business delivered a higher underlying RC profit before interest and tax compared with 2016 – which in turn was higher than 2015. The 2017 result reflected an improved margin environment, stronger margin optimization, the benefits from our efficiency programmes and a lower level of turnaround activity. This was partially offset by the impact of the divestment of our interest in the SECCO joint venture, which completed in the fourth quarter of 2017 and was classified as held for sale in the group balance sheet at 30 September. In 2017 we reduced our cash breakeven by more than 40% compared with 2014, making our business more resilient to volatility in the environment. Compared with 2015, the higher result in 2016 reflected strong operations and margin capture supported by the continued rollout of our latest advanced technology, as well as benefits from a slightly improved environment particularly in olefins and derivatives. Our petrochemicals production of 15.3 million tonnes in 2017 was higher than 2016 and 2015 (2016 14.2mmte, 2015 14.8mmte). Production was higher in 2017, reflecting record levels of production at a number of our plants, a lower level of turnaround activity and the increase in our interest in the Gelsenkirchen and Mülheim sites following the dissolution of our German refining joint operation with Rosneft in 2016. These increases were partially offset by the divestments of our share in the SECCO joint venture in 2017 and the Decatur petrochemicals complex in 2016. In 2017 we completed the upgrade of our PTA plant at Cooper River in South Carolina, US, to our industry-leading proprietary technology. This technology is also used at our key PTA sites at Zhuhai in China and Geel in Belgium. Since its deployment, new production records have been set at Zhuhai and Geel. We have also leveraged this technology to develop a lower carbon PTA solution for manufacturers, brand owners and their customers. Our PTAir brand, which was first launched in Europe in 2016, is now available globally. The introduction of PTAir in China in 2017 has demonstrated our long-term commitment to both promoting improved sustainability in the polyester industry and helping China to move towards a lower carbon future. Our lubricants business We manufacture and market lubricants and related products and services to the automotive, industrial, marine and energy markets across the world. Our key brands are Castrol, BP and Aral. Castrol is a recognized brand worldwide that we believe provides us with significant competitive advantage. We are one of the largest purchasers of base oil in the market, but have chosen not to produce it or manufacture additives at scale. Our participation choices in the value chain are focused on areas where we can leverage competitive differentiation and strength. Above: Castrol EDGE engine oil. Our strategy is to focus on our premium lubricants and growth markets while leveraging our strong brands, technology and customer relationships – all of which are sources of differentiation for our business. With more than 60% of profit generated from growth markets and more than 44% of our sales from premium grade lubricants, we have an excellent base for further expansion and sustained profit growth. We have a robust pipeline of technology development through which we seek to respond to engine developments and evolving consumer needs and preferences, including lower carbon options. We apply our expertise to create differentiated, premium lubricants and high-performance fluids for customers in on-road, off-road, sea and industrial applications. In 2017 in the US, we launched Castrol EDGE BIO-SYNTHETIC, an engine oil that uses 25% plant-derived oil compounds while delivering a high level of performance. The lubricants business delivered an underlying RC profit before interest and tax that was similar compared with 2016 – which in turn was higher compared with 2015. The 2017 results reflected growth in premium brands and growth markets, offset by the adverse lag impact of increasing base oil prices. The 2016 results also reflected continued strong performance in growth markets and premium brands as well as lower costs achieved through simplification and efficiency programmes. Our petrochemicals business Our petrochemicals business manufactures and markets three main product lines: purified terephthalic acid (PTA), paraxylene (PX) and acetic acid. These have a large range of uses including polyester fibre, food packaging and building materials. We also produce a number of other specialty petrochemicals products. In addition, we manufacture olefins and derivatives at Gelsenkirchen and solvents at Mülheim in Germany, the income from which is reported in our fuels business. Along with the assets we own and operate, we have also invested in a number of joint arrangements in Asia, where our partners are leading companies in their domestic market. Our strategy is to grow our underlying earnings and ensure the business is resilient to margin volatility, positioning ourselves to capture growth and investment opportunities in an attractive and growing market. We do this through the execution of our business improvement programmes See GlossaryBP Annual Report and Form 20-F 2017 37

Strategic report – performance

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Rosneft 2017 summary

- Rosneft continued optimizing its portfolio and increased total hydrocarbon production by 6.5%.
- BP received \$190 million, net of withholding taxes, in July (2016 \$332 million, 2015 \$271 million), representing its share of Rosneft's dividend of 5.98 Russian roubles per share. This dividend was 55% of Rosneft's 2016 IFRS net profit.
- Rosneft implemented a new dividend policy in September, which provides for a target level of dividends of no less than 50% of IFRS net profit, and a target frequency of dividend payments of at least twice a year.
- BP received \$124 million, net of withholding taxes, in October, representing its share of Rosneft's interim dividend of 3.83 Russian roubles per share. This dividend was 50% of Rosneft's IFRS net profit for the first half of 2017.
- Rosneft completed the acquisition of a 100% interest in the Kondanekt project in April, which is developing four licence areas in the Khanty-Mansiysk Autonomous District in West Siberia. The acquisition price was approximately \$700 million.
- Rosneft completed the transaction for the sale of a 20% interest in its Verkhnechonskneftegaz subsidiary to the Beijing Gas Group in June, for around \$1.1 billion.
- Rosneft completed the transaction to acquire a 49.13% stake in Essar Oil Limited (EOL), an Indian downstream business, from Essar Energy Holdings Limited and its affiliates (the Essar group) in August. As a result of this transaction, Rosneft acquired an interest in the Vadinar refinery and related infrastructure in India, which is among the top 10 refineries in terms of scale and complexity worldwide. EOL's business also includes a network of Essar-branded retail outlets across India. The acquisition price totalled \$3.9 billion.
- Rosneft completed the acquisition of a 30% stake in a concession agreement to develop the Zohr field in Egypt from the Italian company Eni S.p.A. (Eni) for \$1.1 billion in October. Rosneft is also refunding its share in past project costs to Eni, which is estimated at \$1.1 billion. Eni retains a 60% stake and BP holds the remaining 10%.
- Two BP nominees, Bob Dudley and Guillermo Quintero, serve on Rosneft's Board. The number of directors on the Board increased from nine to 11 in September. Bob Dudley became chairman of its Strategic Planning Committee, and Guillermo Quintero is a member of its HR and Remuneration Committee.
- US and EU sanctions imposed in 2014 remain in place on certain Russian activities, individuals and entities, including Rosneft. In 2017 the US imposed additional sanctions on certain Russian and international activities and entities, including Rosneft.

About Rosneft

- Rosneft is the largest oil company in Russia and the largest publicly traded oil company in the world, based on hydrocarbon production volume. Rosneft has a major resource base of hydrocarbons onshore and offshore, with assets in all Russia's key hydrocarbon regions. Rosneft's hydrocarbon production reached a record of 5.7mmboe/d in 2017. Gas production for the year increased by 2% compared with 2016 to 68.4bcma or 6.62bcf/d. Rosneft is the largest oil company in Russia, with a strong portfolio of current and future opportunities.

BP and Rosneft

- BP's 19.75% shareholding in Rosneft allows us to benefit from a diversified set of existing and potential projects in the Russian oil and gas sector.
- Russia has one of the largest and lowest-cost hydrocarbon resource bases in the world and its resources play an important role in long-term energy supply to the global economy.
- BP's strategy in Russia is to support Rosneft's overall performance and growth through our participation in the Rosneft Board of Directors, collaboration on safety, technology and best practice, and to build a material business based on standalone projects with Rosneft in Russia and internationally. BP remains committed to our strategic investment in Rosneft, while complying with all relevant sanctions.

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• Rosneft is the leading Russian refining company based on throughput. It owns and operates 13 refineries in Russia. Rosneft also owns and operates more than 2,960 retail service stations in Russia and abroad. These include Rosneft-branded sites, as well as BP-branded sites operating under a licensing agreement. Downstream operations include jet fuel, bunkering, bitumen and lubricants. Rosneft refinery throughput in 2017 reached a record level of 2,288mb/d versus 1,028mb/d in 2016. • Rosneft's largest shareholder is Rosneftegaz JSC (Rosneftegaz), which is wholly owned by the Russian government. Rosneftegaz's shareholding in Rosneft is 50% plus one share. The following developments and activities in 2017 have served to support and progress this strategy: • In December Rosneft and BP announced an agreement to form a joint venture to develop subsoil resources within the Kharampurskoe and Festivalnoye licence areas in Yamalo-Nenets Autonomous Okrug in northern Russia. Rosneft will hold a majority stake of 51% and BP will hold a 49% stake. Completion of the deal, subject to external approvals, is expected in 2018. • BP holds a 20% interest in Taas-Yuryakh Neftegazodobycha (Taas), a joint venture with Rosneft and a consortium comprising Oil India Limited, Indian Oil Corporation Limited and Bharat PetroResources Limited. Taas is developing the Srednebotuobinskoye oil and gas condensate field. BP's interest in Taas is reported through the Upstream segment. • Rosneft (51%) and BP (49%) jointly own Yermak Neftegaz LLC (Yermak). This joint venture conducts onshore exploration in the West Siberian and Yenisei-Khatanga basins and currently holds seven exploration and production licences. The venture is also carrying out further appraisal work on the Baikalovskoye field, an existing Rosneft discovery in the Yenisei-Khatanga area of mutual interest. BP's interest in Yermak is reported through the Upstream segment. • Rosneft, BP and Western GeCo (a subsidiary of Schlumberger) continued their collaboration on seismic research and the development of an innovative cableless onshore seismic acquisition technology. The technology aims to revolutionize the design and acquisition of seismic surveys and increase the efficiency of exploration, appraisal and field development. • Rosneft and BP signed an agreement on strategic co-operation in gas and a memorandum of understanding in respect to the sale and purchase of natural gas in Europe in June. We agreed to develop integrated co-operation in gas and aim to jointly implement gas projects focused on gas exploration and production, LNG production, supply and marketing in Russia and abroad. • In June Rosneft and BP also signed an agreement for collaboration in labour protection, and industrial and fire safety, including in the implementation of joint oil and gas projects. See Glossary BP's strategy in Russia Our strategy is to work in co-operation with Rosneft to increase total shareholder return and partner with it in building a material business outside of the shareholding. This strategy is implemented through our activities in four areas: • Rosneft Board of Directors – BP has two nominees on the Rosneft Board of Directors and two of its committees. • Technology – develop and apply technology to improve oil and gas field and refining performance in collaboration with Rosneft. • Joint ventures – partner with Rosneft to generate incremental value from joint ventures that are separate from BP's core shareholding. • Technical services – collaborate on the provision of technical and HSE services on a contractual basis to improve asset performance. BP Annual Report and Form 20-F 2017 39 Strategic report – performance

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Rosneft segment performance BP's investment in Rosneft is managed and reported as a separate segment under IFRS. The segment result includes equity-accounted earnings, representing BP's 19.75% share of the profit or loss of Rosneft, as adjusted for the accounting required under IFRS relating to BP's purchase of its interest in Rosneft and the amortization of the deferred gain relating to the disposal of BP's interest in TNK-BP. See Financial statements – Note 15 for further information. \$ million R017 2016 2015 Profit before interest and tax a 923 643 1,314 Inventory holding (gains) losses (87) (53) (4) RC profit before interest and tax 836 590 1,310 Net charge (credit) for non-operating items – (23) – Underlying RC profit before interest and tax 836 567 1,310 Average oil market prices \$ per barrel Urals (Northwest Europe – CIF) 52.84 41.68 50.97 a BP's share of Rosneft's earnings after finance costs, taxation and non-controlling interests is included in the BP group income statement within profit before interest and taxation. b Includes \$(2) million (2016 \$3 million, 2015 \$16 million) of foreign exchange (gain)/losses arising on the dividend received. Market price The price of Urals delivered in North West Europe (Rotterdam) averaged \$52.84/bbl in 2017, \$1.35/bbl below dated Brent. The differential to Brent narrowed from \$2.06/bbl in 2016 as OPEC production cuts tightened the market for medium sour crude. Financial results Replacement cost (RC) profit before interest and tax for the segment for 2016 included a non-operating gain of \$23 million, whereas the 2017 and 2015 results did not include any non-operating items. After adjusting for non-operating items, the increase in the underlying RC profit before interest and tax compared with 2016 primarily reflected higher oil prices. The result also benefited from a \$163-million gain representing the BP share of a voluntary out-of-court settlement between Sistema, Sistema-Invest and the Rosneft subsidiary, Bashneft. These positive effects were partially offset by adverse foreign exchange effects. Compared with 2015, the 2016 result was primarily affected by lower oil prices and increased government take, partially offset by favourable duty lag effects. See also Financial statements – Notes 15 and 30 for other foreign exchange effects. Balance sheet \$ million R017 2016 2015 Investments in associates c (as at 31 December) 10,059 8,243 5,797 Production and reserves 2017 2016 2015 Production (net of royalties) (BP share) Liquids (mb/d) Crude oil Natural gas liquids Total liquids Natural gas (mmcf/d) Total hydrocarbons (mboe/d) 900 4 904 1,308 1,129 836 4 840 1,279 1,060 809 4 813 1,195 1,019 Estimated net proved reserves (net of royalties) (BP share) Liquids (million barrels) Crude oil Natural gas liquids Total liquidsf 5,402 131 5,533 5,330 65 5,395 4,823 47 4,871 Natural gas (billion cubic feet)g 13,522 11,900 11,169 Total hydrocarbons (mmboe) 7,864 7,447 6,796 c See Financial statements – Note 15 for further information. d Includes condensate. e Because of rounding, some totals may not agree exactly with the sum of their component parts. f Includes 338 million barrels of crude oil (347 million barrels at 31 December 2016) in respect of the 6.31% non-controlling interest (6.58% at 31 December 2016) in Rosneft, held assets in Russia including 32 million barrels (28 million barrels at 31 December 2016) held through BP's equity-accounted interest in Taas-Yuryakh Neftegazodobycha. g Includes 306 billion cubic feet of natural gas (300 billion cubic feet at 31 December 2016) in respect of the 2.30% non-controlling interest (2.53% at 31 December 2016) in Rosneft held assets in Russia including 12 billion cubic feet (3 billion cubic feet at 31 December 2016) held through BP's equity-accounted interest in Taas-Yuryakh Neftegazodobycha. See Glossary BP Annual Report and Form 20-F 201740

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See Glossary The replacement cost (RC) loss before interest and tax for the year ended 31 December 2017 was \$4,445 million (2016 \$8,157 million, 2015 \$13,477 million). The R017 result included a net charge for non-operating items of \$2,847 million, primarily relating to costs for the Gulf of Mexico oil spill (2016 \$6,919 million, 2015 \$12,256 million). For further information, see Financial statements – Note 2. After adjusting for these non-operating items, the underlying RC loss before interest and tax for the year ended 31 December 2017 was \$1,598 million, higher than 2016 due to weaker business results, higher corporate costs and adverse foreign exchange effects which had a favourable effect in 2016. The underlying RC loss before interest and tax in 2016 was \$1,238 million, similar to the loss of \$1,221 million in 2015. Outlook Other businesses and corporate annual charges, excluding non-operating items, are expected to be around \$1.4 billion in 2018. Gulf of Mexico oil spill Further significant progress was made in 2017 toward resolving outstanding matters related to the 2010 Gulf of Mexico oil spill. The court supervised settlement programme’s determination of business economic claims was substantially completed, although a significant number of individual claims determined have been and continue to be appealed by BP and/or the claimants. Determinations with respect to remaining business economic loss claims are expected to be issued in the first half of 2018.

The process safety monitor’s term of appointment came to an end in January 2018. The ethics monitor’s term of appointment will come to an end in 2019 and we continue to work with him to review ongoing progress. A further \$2.7 billion pre-tax charge was recorded in 2017 and the cumulative pre-tax income statement charge since the incident in April 2010 amounted to \$65.8 billion as at 31 December 2017. For further information, see Financial statements – Note 2. Financial performance \$ million R017 2016 2015 Sales and other operating revenuesa 1,469 1,667 2,048 RC profit (loss) before interest and tax Gulf of Mexico oil spill (2,687) (6,640) (11,709) Other (1,758) (1,517) (1,768) RC profit (loss) before interest and tax (4,445) (8,157) (13,477) Net adverse impact of non-operating items Gulf of Mexico oil spill 2,687 6,640 11,709 Other 160 279 547 Net charge (credit) for non-operating items 2,847 6,919 12,256 Underlying RC profit (loss) before interest and tax (1,598) (1,238) (1,221) Organic capital expenditure b 339 229 N/A a Includes sales to other segments. b A reconciliation to GAAP information at the group level is provided on page 249. Organic capital expenditure on a cash basis in 2015 is not available. Other businesses and corporate Comprises our alternative energy business, shipping, treasury and corporate activities, including centralized functions and the costs of the Gulf of Mexico oil spill. BP Annual Report and Form 20-F 2017 41 Strategic report – performance

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We have been investing in renewables for many years – and our focus today is on biofuels, biopower, wind energy and solar energy. Renewables are the fastest growing form of energy. They account for around 4% of energy demand today (excluding large-scale hydroelectricity). By 2040 that could grow to at least 14% – an exceptional rate of growth for the energy industry. As part of our approach to building our alternative energy business, we are looking to grow our existing businesses and to develop further new businesses and partnerships to deliver sustainable value. Biofuels We believe that biofuels offer one of the best large-scale solutions to reduce emissions from transportation. We produce ethanol from sugar cane in Brazil. This ethanol has life cycle greenhouse gas emissions that are 70% lower than conventional transport fuels. In 2017 our three sites produced 776 million litres of ethanol equivalent. Brazil is one of the largest markets globally for ethanol fuel. To better connect our ethanol production with the country's main fuels markets, we are partnering with Copersucar, the world's leading ethanol and sugar trader, to operate a major ethanol storage terminal. Our largest biofuels mill is certified to Bonsucro, an independent standard for sustainable sugar cane production. Our strategy is enabled by:

- Safe and reliable operations – continuing to drive improvements in personal, process and transport safety.
- Competitive feedstock – concentrating our efforts in Brazil, which has one of the most cost-competitive biofuel sources currently available in the world.
- Domestic and international markets – selling bioethanol and sugar domestically in Brazil and also to international markets such as the US and Europe through our integrated supply and trading function.

Advanced biofuels Butamax®, our 50/50 joint venture with DuPont, has developed technology that converts sugars from corn into an energy-rich biofuel known as bio-isobutanol. It can be blended with gasoline at higher concentrations than ethanol and transported through existing fuel pipelines and infrastructure. Butamax® plans to upgrade its recently acquired ethanol plant in Kansas to enable it to produce bio-isobutanol to demonstrate the technology to ethanol producers. Biopower We create biopower by burning bagasse, the fibre that remains after crushing sugar cane stalks. In 2017 our three biofuels manufacturing facilities produced around 850GWh of electricity – enough renewable energy to power all of these sites and export the remaining 70% to the local electricity grid. This is a low carbon power source, with the CO₂ emitted from burning bagasse offset by the CO₂ absorbed by sugar cane during its growth. Wind energy We have interests in 14 sites in the US with a net generating capacity of 1,432MW, making BP one of the top wind energy producers in the country. We continue to optimize our business by seeking out technological advancements and finding ways to deliver power more efficiently. Solar energy BP has partnered with Lightsource, Europe's largest solar development company, which focuses on the acquisition, development and long-term management of large-scale solar projects. We are bringing our global scale, relationships and trading capabilities to help accelerate Lightsource's expansion worldwide. The company has been rebranded as Lightsource BP. We are investing \$200 million in Lightsource BP over three years and will hold a 43% stake in the company with two seats on its board. Left: Lightsource BP's floating solar farm on the Queen Elizabeth II reservoir, just outside London. Alternative Energy 42 BP Annual Report and Form 20-F 2017

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Shipping BP's shipping and chartering activities help to ensure the safe transportation of our hydrocarbon products using a combination of BP-operated, time-chartered and spot-chartered vessels. At 31 December 2017 BP had four vessels supporting operations in Alaska and T9 BP-operated and 22 time-chartered vessels for our international oil and gas shipping operations. In 2017 Q3 new oil tankers were delivered into the BP-operated fleet. There are no new oil tankers planned for delivery in 2018. However, we have six technically advanced LNG tankers on order and planned for delivery into the BP-operated fleet between 2018 and 2019. The LNG tankers are currently under construction in Daewoo Shipbuilding and Marine Engineering in South Korea. The first ship was launched in September and will be delivered in the first half of 2018. When delivered they will be the largest and most fuel efficient LNG ships BP has ever built. Their advanced gas burning diesel engines allow a step change in flexibility and efficiency. The ships also have the facilities to re-liquefy gas and use it for cargo conditioning – making them extremely commercially flexible. All vessels conducting BP shipping activities are required to meet BP approved health, safety, security and environmental standards. Treasury Treasury manages the financing of the group centrally, with responsibility for managing the group's debt profile, share buyback programmes and dividend payments, while ensuring liquidity is sufficient to meet group requirements. It also manages key financial risks including interest rate, foreign exchange, pension funding and investment, and financial institution credit risk. From locations in the UK, US and Singapore, treasury provides the interface between BP and the international financial markets and supports the financing of BP's projects around the world. Treasury holds foreign exchange and interest rate products in the financial markets to hedge group exposures. In addition, treasury generates incremental value through optimizing and managing cash flows and the short-term investment of operational cash balances. For further information, see Financial statements – Note 27. Insurance The group generally restricts its purchase of insurance to situations where this is required for legal or contractual reasons. Some risks are insured with third parties and reinsured by group insurance companies. This approach is reviewed on a regular basis or if specific circumstances require such a review. Right: Looking out to sea from our BP-operated British Renown oil tanker in the US. BP Annual Report and Form 20-F 2017 43 Strategic report – performance

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Innovation in BP Technology is ever-present in all that we do – from safely discovering and recovering oil and gas, to renewable energy, digital, and lower carbon fuels and products. We seek innovations that help to make our operations and products more efficient and sustainable. And by partnering with early and growth stage start-ups, we invest in emerging technologies that are scalable and commercially viable. We also complement our comprehensive research capability with external collaborations that provide a range of specialisms, supported by innovative academic programmes. We have scientists and technologists at eight major technology centres in the US, UK, Asia and Germany. In 2017 we invested \$391 million in research and development (2016 \$400 million, 2015 \$418 million). This excludes the investment in technology made through venturing – which gives us alternative access to innovation. BP and its subsidiaries hold more than 5,600 granted patents and pending patent applications throughout the world. bp.com/technology More information Technology Outlook How technology could influence the way we meet the energy challenge into the future. bp.com/technologyoutlook While the focus of reducing emissions has been on battery power for passenger and small vehicle fleets, the solution for heavy-duty vehicles such as lorries isn't as obvious. To help tackle this, we are developing a number of technologies that offer a range of ways for heavy-duty vehicles to reduce emissions. Our acquisition of the renewable natural gas business of Clean Energy Fuel Corp. is helping to make renewable energy more accessible for natural gas powered vehicle fleets, including trucks. Biogas is produced entirely from organic waste and is estimated to result in up to 70% lower greenhouse gas emissions than from equivalent gasoline or diesel-fuelled vehicles. We are working to improve the safety and efficiency of trucks through our investment in Peloton Technology. The business has developed connected and automated vehicle technology for commercial vehicles, using the same approach as cyclists who race in close formation to travel as fast as the leader but with less effort. Linked pairs of trucks have synchronized acceleration and braking to maintain a safe distance between the vehicles. Travelling in this way can reduce emissions and result in estimated fuel savings of between 8-15%. Helping heavy-duty vehicles reduce carbon emissions Technology across the business The right technology is central to the safety and reliability of our operations. In Upstream, we seek to increase recovery and gain new access. And in Downstream we develop and apply technology that enhances operational integrity, boosts conversion efficiency, reduces CO2 emissions or helps to provide high-performance products for our customers. Between 8-15% fuel savings 3,600 patents and applications 8 major technology centres BP Annual Report and Form 20-F 2017/44

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Using fibre optics cables inside our wells, we 'listen' to the rock, so we can intervene if issues arise. We have deployed this technology in more than 30 wells to date – with many more planned globally, and are now investigating other applications for the technology, including 4D seismic and well integrity monitoring. Through our venturing partnership with BiSN, we help to protect oil production rates by shutting off unwanted water and gas. BiSN applies heat technology in a well to melt alloys so they can flow into any spaces within the cemented well. When cooled, the alloys solidify and seal the well, inhibiting water or gas entry. We have deployed this novel BiSN technology successfully in the Gulf of Mexico and Angola. Improving oil and gas recovery Operational decision-making is being transformed by a combination of cloud technology and big data software solutions. Our wells data platform Argus holds historical and real-time data in our proprietary data lake on nearly all of the 2,500 wells we operate globally, making data available to any relevant engineer, anytime. Well reviews that used to take days of preparation can now be done live using Argus, leaving more time to explore new ways to deliver efficiencies and improve production rates. We recently deployed a new proprietary seismic processing algorithm called Full Waveform Inversion in our Gulf of Mexico business, which lets us see through the salt to the reservoirs below. Applied to BP's four hubs in the Gulf of Mexico, it has helped us identify significant additional resources. We ran that algorithm in just two weeks at our centre for high performance computing in Houston – in 1999 that would have taken us more than 2,000 years using available computer power. Sand production caused from weak rock breaking down under pressure creates a challenge for our industry. If sand enters oil production facilities, it can cause erosion and disrupt production efficiency. \$400 million+ invested in corporate venturing since R006 – \$100 million in 2017 alone. 40+ active investments in our venturing portfolio, with more than 200 co-investors and 12 technologies used in BP. Creating low carbon businesses New technologies can help pave the way to a lower carbon future. We are building low carbon into what we do, across the business – in ways that can help generate value over the long term. We are an investor and an end-user of the technologies we invest in. Our approach is not about trying to do everything, but to focus on the areas that have the greatest potential value to our business now and in the future. Our venturing partnerships help us to understand and develop solutions for the future. We invest to help companies develop technology quickly – often for our own use. Our investments include: • Advanced mobility • Carbon management • Low carbon power and storage • Bio and low carbon products • Digital energy. Working in partnership Carbon capture, use and storage technology (CCUS), where CO2 can be captured and prevented from entering the atmosphere, is another important means of reducing emissions. BP is working with the Oil and Gas Climate Initiative (OGCI) to speed up wide-scale use of CCUS, which is one of the main focus areas for OGCI's \$1-billion investment vehicle. In 2017 we committed funding through OGCI to advance designs for a full-scale gas power plant with CCUS – one that can receive government support and attract private sector investors. Sustainable raw materials We are helping commercialize production of new high-performance wood. Tricoya technology changes the physical properties of wood chips that are used to make MDF panels with enhanced durability and stability. The panels can be used outside and in wet areas – where concrete, plastic or metal materials would usually be needed. The lightweight and sustainable raw material offers benefits to the construction, joinery and civil engineering industries. BP and Tricoya have formed a consortium to build a plant in the UK, producing more durable wood chips. ~2,500 wells with Argus real-time data 010101010101010101 P1010101 101010101 P10101010101010101 P10101010101010101 P101010101 1 101 P1010101010101010101 P101010101 P101010101 0 Strategic report – performance BP Annual Report and Form 20-F 2017 45

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Previously used in deep space exploration – our venturing partnership with Beyond Limits is using artificial intelligence (AI) technology to transform the way we manage reservoirs here on Earth. Our investment in the start-up company is helping develop and commercialize the same technology that successfully supported NASA's space programme for more than 20 years for the oil and gas industry. Beyond Limits aims to adapt and deliver its AI software to tackle industrial and business challenges on Earth. The work uses machine learning and human. Going beyond the limits. Venturing and low carbon across multiple fronts. Turning carbon into concrete. Our investment in Solidia, a cement and concrete company, is supporting a new technology to produce cement in a way that generates fewer emissions – using CO2 instead of water to cure the concrete. The technology has the potential to lower emissions in concrete production by up to 70%, and allows 80% of the water used in its production process to be recycled. Rapid mobile charging. BP has invested \$5 million in FreeWire, a US manufacturer of mobile electric vehicle rapid charging systems, and we plan to roll out the charging facilities for use at selected BP retail sites in Europe during 2018. This investment will help to build our understanding of this fast-evolving market. knowledge to simulate human reasoning, with the same exploration techniques that NASA's Curiosity Rover used on the surface of Mars. We are supporting this work to help accelerate its delivery and provide the energy sector with new levels of process automation and better insight and effectiveness across all operations. The work supports BP's vision of using digital technology to help transform our organization. And we believe that it could fundamentally change how we locate and develop reservoirs, produce and refine crude oil, market and supply refined products and make unmanned repairs possible for dangerous maintenance. W0% potential emissions reduction \$20 million invested in Beyond Limits 20+ years supporting NASA New technologies Alternative thinking Disruptive business models BP Annual Report and Form 20-F 201746

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Sustainability Safety and security Safety is a core value and our number one priority. Our stated aim is to have no accidents, no harm to people and no damage to the environment. We are working to continuously improve personal and process safety and operational risk management across BP, with our group-wide operating management system at its core. Our approach builds on our experience, including learning from incidents, operations audits, annual risk reviews and sharing lessons learned with our industry peers. In 2017 BP reported one fatality – a firefighter who died in the course of his duties for our biofuels business in Brazil. Nothing matters more than every one of our people returning home safely each day. We deeply regret this loss and continue to work towards eliminating injuries and fatalities in our work. Preventing incidents We carefully plan our operations, identifying potential hazards and managing risks at every stage. We design our facilities to appropriate standards and manage them throughout their lifetime. We track our safety performance using industry metrics such as the American Petroleum Institute recommended practice 754 and the International Association of Oil & Gas Producers recommended practice 456. We aim to create long-term value for our shareholders, partners and society by helping to meet growing energy demand in a safe and responsible way. Advancing the energy transition Publishes April Our 2017 sustainability focus These sustainability issues are the ones that could impact our business the most and that are of greatest interest to our stakeholders: Safety and security Climate change Managing our impacts Value to society Human rights Environment Ethical conduct Our people See Glossary In summary Tier 1 Tier 2 2014 2015 2016 2017 2013 100 Process safety events (number of incidents) 50 150 American Petroleum Institute US benchmark a 2014 2015 2016 2017 2013 0.8 0.4 0.6 0.2 Recordable injury frequency (workforce incidents per 200,000 hours worked) 0.25 0.27 0.20 0.19 0.20 Contractors Employees P.31 0.31 0.24 0.21 0.22 Workforce P.36 0.34 0.28 0.22 0.23 International Association of Oil & Gas Producers benchmark a a API and OGP 2016 data reports are not available until May 2017. BP Sustainability Report Publishes April More information Strategic report – performance BP Annual Report and Form 20-F 2017 47

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2017 2016 2015 Tier 1 process safety events a 18 16 20 Tier 2 process safety eventsb 61 84 83 Oil spills – numberc 139 149 146 Oil spills contained 81 91 91 Oil spills reaching land and water 58 58 55 Oil spilled – volume (thousand litres) 886 677 432 Oil unrecovered (thousand litres) 265 311 142 a Tier 1 process safety events are losses of primary containment of greater consequence – such as causing harm to a member of the workforce, costly damage to equipment or exceeding defined quantities. b Tier 2 events are those of lesser consequence. c Number of spills greater than or equal to one barrel (159 litres, 42 US gallons). In 2017 we continued to see a reduction in the overall number of process safety events, despite a slight increase in tier 1, the more serious events. We investigate safety incidents and near misses, including low probability, high consequence events. And we use leading indicators, like inspections and equipment tests, to monitor the strength of controls to prevent incidents. What we learn from performance insights helps us focus our safety efforts. For example, we are introducing techniques for teams to analyse and redesign tasks to reduce the chance of mistakes occurring. Proactively managing equipment corrosion is also a focus for us – and we believe this is helping to deliver improvements in process safety in our upstream and downstream businesses. Keeping people safe All members of our workforce have the responsibility and the authority to stop unsafe work. Our golden rules of safety guide our workers on staying safe while performing tasks with the potential to cause most harm. The rules are aligned with our operating management system and focus on areas such as working at heights, lifting operations and driving safety. We monitor and report on key workforce personal safety metrics and include both employees and contractors in our data. 2017 2016 2015 Recordable injury frequencyd 0.22 0.21 0.24 Day away from work case frequencye 0.055 0.051 0.061 Severe vehicle accident ratef 0.03 0.05 0.11 d Incidents that result in a fatality or injury per 200,000 hours worked. e Incidents that result in an injury where a person is unable to work for a day (shift) or more per 200,000 hours worked. f The figures for 2016 and 2017 are based on our new definition which aligns with industry practice. We have seen a small increase in our recordable injury frequency and day away from work case frequency compared to last year. Improving safety in our operations is a high priority and we are working on it right across the business. Managing safety BP-operated businesses are responsible for identifying and managing operating risks and bringing together people with the right skills and competencies to address them. They are required to carry out self-verification and are also subject to independent scrutiny and assurance. Our safety and operational risk team works alongside BP-operated businesses to provide oversight and technical guidance, while our group audit team visits sites on a risk-prioritized basis, to check how they are managing risks. Operating management system BP's OMS is a group-wide framework designed to help us manage risks in our operating activities and drive performance improvements. It brings together BP requirements on health, safety, security, the environment, social responsibility and operational reliability, as well as related issues, such as maintenance, contractor relations and organizational learning, into a common management system. We review and amend our group requirements within OMS from time to time to reflect BP's priorities and experience. Any variations in the application of OMS, in order to meet local regulations or circumstances, are subject to a governance process. OMS also helps us improve the quality of our activities by setting a common framework that our operations must work to. Recently acquired operations need to transition to OMS. See page 49 for information about contractors and joint arrangements. See Glossary Above: Monitoring global events at our 24-hour response information centre in the UK. BP Annual Report and Form 20-F 201748

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Technology New technologies are helping us increase the amount and quality of data we gather from our operations and speed up our analysis, allowing us to act more quickly. For example, our wells data platform Argus holds historical and real-time data on nearly all of the 2,500 wells we operate globally, giving our engineers the ability to access and analyse alerts quickly and remotely. This enables early identification and rapid response should an issue arise (see page 45).

Emergency preparedness and response The scale and spread of BP's operations means we must be prepared to respond to a range of possible disruptions and emergency events. We maintain disaster recovery, crisis and business continuity management plans and work to build day-to-day response capabilities to support local management of incidents.

Security As a global business, BP monitors for hostile actions that could harm our people or disrupt our operations. We particularly look at operating areas affected by political and social unrest, terrorism, armed conflict or criminal activity. We also run exercises and drills to test our procedures and help ensure our people are prepared in the event of an emergency. We take steps to help people stay safe when they are travelling on business. Our 24-hour response information centre keeps watch over global events and related developments. This meant that in March 2017 we were aware of the terrorist attack in London's Westminster almost immediately. Within minutes we knew which employees had scheduled meetings or travel plans in the surrounding area, so we were able to confirm their safety and provide advice.

Oil spill preparedness Our requirements for oil spill preparedness and response planning incorporate updated external requirements and what we have learned over many years. We are also using technologies to strengthen our response to oil spills. Working with Oil Spill Response Limited, an industry-funded co-operative, and others, we used satellites, drones and autonomous underwater vehicles in an oil spill response exercise. This enabled us to study an oil plume from a small controlled release and the effectiveness of dispersant in helping it to biodegrade.

Cyber threats Cyber attacks are on the rise and our industry is subject to evolving risks from a variety of cyber threat actors, including nation states, criminals, terrorists, hacktivists and insiders. We have experienced threats to the security of our digital infrastructure, but none of these had a significant effect on our business in 2017. Above: Operations at our Cherry Point refinery in the US. We use a range of measures to manage this risk, including the use of cyber security policies and procedures, security protection tools, ongoing detection and monitoring of threats, and testing of response and recovery procedures. We collaborate closely with governments, law enforcement and industry peers to understand and respond to new and emerging threats. To encourage vigilance among our employees, our cyber security programme covers topics such as email phishing and the correct classification and handling of our information. Working with contractors and partners More than half of the hours worked by BP are carried out by contractors. So their skills and performance are vital to our ability to carry out our work safely and responsibly. Our standard model contracts include health, safety and security requirements. Through bridging documents, we define the way our safety management system co-exists with those of our contractors to manage risk on a site. And for our contractors facing the most serious risks, we conduct quality, technical, health, safety and security audits before awarding contracts. Once they start work, we continue to monitor their safety performance. Our OMS includes requirements and practices for working with contractors. We expect and encourage our contractors and their employees to act in a way that is consistent with our code of conduct. We take appropriate action if those expectations, or their contractual obligations, are not met.

Our partners in joint arrangements In joint arrangements where we are the operator, our OMS, code of conduct and other policies apply. We aim to report on aspects of our business where we are the operator – as we directly manage the performance of these operations. Where we are not the operator, our OMS is available as a reference point for BP businesses when engaging with operators and co-venturers. We have a group framework to assess and manage BP's exposure related to safety, operational and bribery and corruption risk from our participation in these types of arrangements. We monitor performance and how risk is managed in our joint arrangements, whether we are the operator or not. Strategic report – performance BP Annual Report and Form 20-F 2017 49

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Reporting on greenhouse gas emissions We report on direct and indirect GHG emissions on a carbon dioxide equivalent (CO₂e) basis. Direct emissions include CO₂ and methane from the combustion of fuel and the operation of facilities, and indirect emissions include those resulting from the purchase of electricity and steam. There was a slight decrease in our direct GHG emissions in 2017. The primary reasons for this include operational changes such as planned shutdowns at several of our refineries for maintenance, and actions taken by our businesses to reduce emissions in areas such as flaring, methane and energy efficiency. Greenhouse gas emissions (MteCO₂e) 2017 2016 2015

| | 2017 | 2016 | 2015 |
|---------------------|------|------|------|
| Operational control | 50.5 | 51.4 | 51.2 |
| Direct emissions | 6.1 | 6.2 | 7.0 |
| BP equity share | 49.4 | 50.1 | 49.0 |
| Indirect emissions | 6.8 | 6.2 | 6.9 |

a Operational control data comprises 100% of emissions from activities that are operated by BP, going beyond the IPIECA guidelines by including emissions from certain other activities such as contracted drilling activities. b BP equity share comprises our share of BP's consolidated entities and equity-accounted entities, other than BP's share of Rosneft. The ratio of our total GHG emissions reported on an operational control basis to gross production was 0.24teCO₂e/te production in 2017 (2016 P.24 teCO₂e/te, 2015 0.24teCO₂e/te). Gross production comprises upstream production, refining throughput and petrochemicals produced. Our approach to reporting GHG emissions broadly follows the IPIECA/ API/IOGP Petroleum Industry Guidelines for Reporting GHG Emissions. We calculate CO₂ emissions based on the fuel consumption and fuel properties for major sources. We do not include nitrous oxide, hydrofluorocarbons, perfluorocarbons and sulphur hexafluoride as they are not material and it is not practical to collect this data. Task Force on Climate-related Financial Disclosures The TCFD was established by the Financial Stability Board with the aim of improving disclosure of climate-related risks and opportunities. Our reporting provides information relevant to each of the four TCFD recommendations. Governance Annual Report (page 70), Sustainability Report (page 73) Strategy Annual Report (page 12) and Sustainability Report (pages 4-5) and our Energy Outlook (pages 3-5) Risk management Annual Report (page 55) Metrics and targets Sustainability Report (pages 6 and 14) Working with others We are collaborating with others to help address this global challenge. As one example, the Oil and Gas Climate Initiative (OGCI) – currently chaired by our chief executive Bob Dudley – brings together 10 oil and gas companies working to reduce the GHG emissions from our industry's operations and the use of our products. In 2017, OGCI announced its intent to provide technical and financial support for the world's first global methane study. Climate change Our strategy sets us up to help advance the energy transition, while meeting the needs for energy today. To help drive the energy transition, we are working to reduce our operational emissions, produce new efficient fuels and lubricants for our customers and to build up our low carbon businesses. Reducing emissions in our operations We have set an emissions reduction target of 3.5 million tonnes out to 2025. Our operating businesses aim to deliver this through improved efficiency, less methane emissions and reduced flaring – leading to permanent, quantifiable GHG reductions. Improving our products We are increasing gas in our portfolio, helping to meet the rising demand for cleaner energy. We are continuing to innovate with efficient fuels, lubricants and chemicals that can help our customers and consumers lower their emissions – as well as exploring opportunities to use our retail network to support the electrification of transport. Creating low carbon businesses We are building up our renewable energy portfolio – focusing on biofuels, biopower, wind and solar. And we have established a dynamic venturing arm that is working on multiple fronts – through joint ventures, creative collaborations and new business models. Advancing Low Carbon programme BP's new Advancing Low Carbon accreditation programme is designed to motivate every part of BP to pursue lower carbon opportunities – by highlighting BP activities that demonstrate a better carbon outcome. The activities initially selected include emission reductions in our operations, carbon neutral products and investments in low carbon technologies. See bp.com/advancinglowcarbon for more information. Calling for a price on carbon BP believes that carbon pricing by governments provides the right incentives for everyone – energy producers and consumers alike – to play their part in reducing emissions. It makes energy efficiency more attractive and makes lower carbon solutions, such as renewables and CCUS, more cost competitive. To help anticipate greater regulatory requirements affecting our GHG emissions, we use a carbon cost when evaluating our plans for large new projects and those for which emissions costs would be a material part of the project. In industrialized countries, this is currently \$40 per tonne of CO₂ equivalent, and we also stress test at a carbon price of \$80 per tonne. See Glossary BP Annual Report and Form 20-F 201750

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Managing our environmental and social impacts We assess potential impacts through the life of our operations. Above: Uncovering a cultural heritage site in Azerbaijan. In planning our projects, we identify actions we need to take to address potential impacts from our activities in areas such as labour rights, water use and protected areas. If our screening process shows that a proposed project could enter or affect an international protected area, we work to identify ways to first avoid, and if needed, minimize and mitigate any potential impact. We consult with stakeholders who may be affected by our activities. For example, we met with more than 2,600 community members in Mauritania and Senegal over the course of 2017 to discuss issues ranging from local employment to our ability to respond to an oil spill. These consultations will contribute to an environmental and social impact assessment in 2018. Every year, our major operating sites review their performance and set local improvement targets. These can include measures on flaring, greenhouse gas emissions and the use of water. Value to society We aim to have a positive and enduring impact on the communities in which we operate. We contribute to economies through our core business activities, such as helping to develop national and local suppliers, and through the taxes we pay to governments. Additionally, our social investments support communities' efforts to increase their incomes and improve standards of living. As one example, we are equipping women living in rural areas of Turkey close to the Baku-Tbilisi-Ceyhan pipeline with entrepreneurial skills so they can set up their own businesses, or enhance existing ones. In 2017 we provided training to more than 250 women and supported around R5 start-up companies. We run programmes to build the skills of businesses and develop the local supply chain in a number of locations. For example, our enterprise development programme in Azerbaijan enables local companies to build their skills so that they can improve their competitiveness when bidding for work with international firms. And in Indonesia we have set a target of sourcing 38% of our services and project materials from local suppliers for our Tangguh expansion project. We aim to recruit our workforce from the community or country in which we operate. In Angola, for example, around 88% of our workforce is Angolan. We contributed \$89.5 million in social investment in 2017. One area in which we focus our investment is education. We support science, technology, engineering and mathematics programmes in countries such as the UK, the US and India, to encourage more young people to consider careers in these fields. See bp.com/society for more information on how we generate value to society. Tax and transparency BP is committed to complying with tax laws in a responsible manner and having open and constructive relationships with tax authorities. We paid \$5.8 billion in income and production taxes to governments in 2017 (2016 \$2.2 billion, 2015 \$3.5 billion). We support transparency in the flow of revenue from oil and gas activities to governments. Transparency helps citizens hold public authorities to account for the way they use funds received through taxes and other agreements. We are a founding member of the Extractive Industries' Transparency Initiative (EITI), which requires disclosure of payments made to and received by governments in relation to oil, gas and mining activity. As part of the EITI, we work with governments, non-governmental organizations and international agencies to improve the transparency of payments to governments. In 2017 we supported EITI implementation in a number of countries where we operate, including Iraq and Trinidad & Tobago. In addition, we disclose information on payments to governments for our upstream activities on a country-by-country and project basis under national reporting regulations such as those in effect in the UK. We also make payments to governments in connection with other parts of our business – such as the transporting, trading, manufacturing and marketing of oil and gas. See bp.com/tax for our approach to tax and our payments to governments report. Human rights We are committed to respecting the rights and dignity of all people when conducting business. We respect internationally recognized human rights as set out in the International Bill of Human Rights and the International Labour Organization's Declaration on Fundamental Principles and Rights at Work. These include the rights of our workforce and those living in communities affected by our activities. We set out our commitments in our human rights policy and our code of conduct. Our operating management system contains guidance on respecting the rights of workers and community members. We are aligning our business processes with the UN Guiding Principles, which set out how companies should prevent, address and remedy human rights impacts. Our current focus areas include the recruitment, working and living conditions of contracted workforces at our sites, responsible security, community grievance mechanisms and channels for workforces to raise their concerns. In 2017 our actions included:

- Reviewing the risk of modern slavery in prioritized locations.
- Delivering additional human rights training specifically on modern slavery.

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Hydraulic fracturing Some stakeholders have raised concerns about the potential environmental and community impacts of hydraulic fracturing during unconventional gas development. BP seeks to apply responsible well design practices to mitigate these risks. For example, our wells are designed, constructed, operated and decommissioned to prevent gas and hydraulic fracturing fluids entering underground aquifers such as drinking water sources. We list the chemicals that we use at each site. We also submit data on their use in our hydraulically fractured wells in the US, to the extent allowed by our suppliers, who own the chemical formulas, at fracfocus.org or other state-designated websites.

Ethical conduct Our code of conduct defines our commitment to high ethical standards. Our values Our values of safety, respect, excellence, courage and one team, represent the qualities and actions we wish to see in BP. They guide the way we do business and the decisions we make. We use these values as part of our recruitment, promotion and individual performance assessment processes. See bp.com/values for more information. The BP code of conduct Our code of conduct is based on our values and sets clear expectations for how we work at BP. It applies to all BP employees and members of the board. Employees, contractors or other third parties who have a question about our code of conduct or see something that they feel is unsafe or unethical can discuss these with their managers, supporting teams, works councils (where relevant) or through OpenTalk, a confidential helpline operated by an independent company. A total of 817 concerns or enquiries were received through OpenTalk in R017 (2016 956, 2015 1,158). The most common concerns related to the people section of the code. This includes treating people fairly, with dignity and giving everyone equal opportunity; creating a respectful, harassment-free workplace; and protecting privacy and confidentiality. We take steps to identify and correct areas of non-conformance and take disciplinary action where appropriate. In 2017 our businesses dismissed 70 employees for non-conformance with our code of conduct or unethical behaviour (2016 109, 2015 132). This excludes dismissals of staff employed at our retail service stations. See bp.com/codeofconduct for more information.

Anti-bribery and corruption We operate in some of the world's highest risk countries from an anti-bribery and corruption perspective. We have a responsibility to our employees, our shareholders and to the countries and communities in which we do business to be ethical and lawful in all our work. Our code of conduct explicitly prohibits engaging in bribery or corruption in any form. Our group-wide anti-bribery and corruption policy and procedures include measures and guidance to assess risks, understand relevant laws and report concerns. They apply to all BP-operated businesses. We provide training to employees appropriate to the nature or location of their role. A total of 12,500 employees completed anti-bribery and corruption training in 2017 (2016 13,000, 2015 13,500).

- Publishing our expectations of suppliers on the way they do business with and for BP in line with our code of conduct, including respect for human rights.
- Continued implementation of the Voluntary Principles on Security and Human Rights, with periodic internal assessments to identify areas for improvement. See bp.com/humanrights for more information about our approach to human rights.

Environment We work to avoid, minimize and mitigate environmental impacts from our activities. We consider local conditions when determining which issues would benefit from the greatest focus. At a site close to communities, for example, the immediate concern may be air quality, whereas a remote desert site may require greater consideration of water management issues. See pages 48-49 for information on our oil spill performance and preparedness.

Water Each year we review water risks in our portfolio – considering the local availability, quantity, quality and regulatory requirements. We assess different approaches for optimizing freshwater withdrawals and wastewater treatment performance. In our gas operations in Oman – an area where the availability of fresh water is extremely scarce – we use saline water from a local underground aquifer. We desalinate the water and use it for drilling and hydraulic fracturing. We continue to look for ways in which we can reduce our demand, such as reusing treated wastewater. See bp.com/water for information about our approach to water.

Air quality We put measures in place to manage our air emissions, in line with regulations and guidelines designed to protect the health of local communities and the environment. We are introducing six liquefied natural gas (LNG) carriers with energy efficiency enhancements to our shipping fleet. They are designed to use approximately 25% less fuel and emit less nitrogen oxides than our older LNG ships.

Above: Engineers on a wind turbine at our Sherbino wind farm in Texas. BP Annual Report and Form 20-F 201752

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Above: A team meeting at the BP office in Baku, Azerbaijan. We assess any exposure to bribery and corruption risk when working with suppliers and business partners. Where appropriate, we put in place a risk mitigation plan or we reject them if we conclude that risks are too high. We also conduct anti-bribery compliance audits on selected suppliers when contracts are in place. For example, our upstream business conducts audits for a number of suppliers in higher-risk regions to assess their compliance with our anti-bribery and corruption contractual requirements. Potential areas for improvement are shared with our suppliers and we often work with them to find the best ways to strengthen their procedures, such as improvements to training and management of subcontractors. We issued a total of 36 audit reports in R017 (2016 25, 2015 35). We take corrective action with suppliers and business partners who fail to meet our expectations, which may include terminating contracts. Lobbying and political donations We prohibit the use of BP funds or resources to support any political candidate or party. We recognize the rights of our employees to participate in the political process and these rights are governed by the applicable laws in the countries in which we operate. For example, in the US we provide administrative support for the BP employee political action committee (PAC), which is a non-partisan committee that encourages voluntary employee participation in the political process. All BP employee PAC contributions are reviewed for compliance with federal and state law and are publicly reported in accordance with US election laws. We work with governments on a range of issues that are relevant to our business, from regulatory compliance, to understanding our tax liabilities, to collaborating on community initiatives. The way in which we interact with those governments depends on the legal and regulatory framework in each country. Our people BP's success depends on having a talented and diverse workforce. BP employees Number of employees at 31 Decemba 2017 2016 2015 Upstream 17,700 18,700 21,700 Downstream 42,100 41,800 44,800 Other businesses and corporate 14,200 14,000 13,300 Total 74,000 74,500 79,800 Service station staff 16,800 16,200 15,600 Agricultural, operational and seasonal workers in Brazil 4,300 4,600 4,800 Total excluding service station staff and workers in Brazil 52,900 53,700 59,400 a Reported to the nearest 100. For more information see Financial Statements – Note 33. We have reshaped our organization over the past few years to adapt to a lower oil price environment. Our focus is on retaining the skills we require to maintain safe and reliable operations while developing and attracting individuals with capabilities we judge important to growing the business in new ways. The group people committee helps facilitate the group chief executive's oversight of policies relating to employees. In 2017 the committee discussed remuneration policy, progress in our diversity and inclusion programme, modernizing and strengthening our attractiveness as an employer, and long-term people priorities. Attraction and retention A total of 314 graduates joined BP in 2017 (2016 231, 2015 298). We were named the UK's leading recruiter in the oil and gas sector in The Times newspaper's Graduate Employer rankings in 2017. We invest in our employees' development – with an average spend of around \$3,300 per person. This includes online and classroom-based courses and resources, supported by a wide range of on-the-job learning and mentoring programmes. Diversity We are committed to making our workplaces reflect the communities in which we are based. The gender balance across BP as a whole is steadily improving, with women representing 34% of BP's total population (2016 33%, 2015 32%). We are working to improve these numbers further by, for example, developing mentoring, sponsorship and coaching programmes to help more women advance. That said, we still have work to do at the executive and senior levels. We have published 2017 data on our gender pay gap in the UK at bp.com/ukgenderpaygap. Strategic report – performance BP Annual Report and Form 20-F 2017 53

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At the end of 2017 there were three female directors (2016 3, 2015 3) on our board of 13. Our nomination committee remains mindful of diversity when considering potential candidates. For more information on the composition of our board, see page 73. Workforce by gender Members as at 31 December

| Male | Female | Female % | |
|----------------------|--------|----------|----|
| Board directors | 10 | 3 | 23 |
| Group leaders | 310 | 84 | 21 |
| Subsidiary directors | 1,155 | 218 | 16 |
| All employees | 48,795 | 25,239 | 34 |

We are also committed to increasing the national diversity of our workforce to reflect the countries in which we operate. A total of 24% of our group leaders came from countries other than the UK and the US in 2017 (2016 23%, 2015 21%).

Inclusion Our goal is to create an environment of inclusion and acceptance, where everyone is treated equally and without discrimination. To promote an inclusive culture we provide leadership training and support employee-run advocacy groups in areas such as gender, sexual orientation and parenting. As well as bringing employees together, these groups support BP's recruitment programmes and provide feedback on the potential impact of policy changes. Each group is sponsored by a senior executive. We aim to ensure equal opportunity in recruitment, career development, promotion, training and reward for all employees – regardless of ethnicity, national origin, religion, gender, age, sexual orientation, marital status, disability, or any other characteristic protected by applicable laws. Where existing employees become disabled, our policy is to provide continued employment, training and occupational assistance where needed. Employee engagement Managers hold regular team and one-to-one meetings with their staff, complemented by formal processes through works councils in parts of Europe. We regularly communicate with employees on factors that affect BP's performance, and seek to maintain constructive relationships with labour unions formally representing our employees. Each year, we survey our employees to gauge how they feel about BP. The overall employee engagement score in 2017 was 73% – up from two years ago when we saw a decline which coincided with the uncertainties of a low oil price environment. Pride in working for BP increased to 75% in 2017, compared with 73% in R016 and 68% in 2015. Scores for diversity, inclusion and respect also recorded strong improvements. We are considering how to address employee dissatisfaction with opportunities to develop their skills – which had lower scores in 2017. Share ownership We encourage employee share ownership and have a number of employee share plans in place. For example, under our ShareMatch plan, which operates in more than 50 countries, we match BP shares purchased by our employees. We also operate a group-wide discretionary share plan, which allows employee participation at different levels globally and is linked to the company's performance. See Glossary BP Annual Report and Form 20-F 201754

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BP manages, monitors and reports on the principal risks and uncertainties that can impact our ability to deliver our strategy of meeting the world's energy needs responsibly while creating long-term shareholder value. These risks are described in the Risk factors on page 57. Our management systems, organizational structures, processes, standards, code of conduct and behaviours together form a system of internal control that governs how we conduct the business of BP and manage associated risks. BP's risk management system BP's risk management system and policy is designed to be a consistent and clear framework for managing and reporting risks from the group's operations to the board. The system seeks to avoid incidents and maximize business outcomes by allowing us to:

- Understand the risk environment, identify the specific risks and assess the potential exposure for BP.
- Determine how best to deal with these risks to manage overall potential exposure.
- Manage the identified risks in appropriate ways.
- Monitor and seek assurance of the effectiveness of the management of these risks and intervene for improvement where necessary.
- Report up the management chain and to the board on a periodic basis on how significant risks are being managed, monitored, assured and the improvements that are being made.

Our risk management activities

Day-to-day risk management Business and strategic risk management Oversight and governance Identify, manage and report risks Plan, manage performance and assure Set policy and monitor principal risks Facilities, assets and operations Business segments and functions Executive and corporate functions Board

Day-to-day risk management – management and staff at our facilities, assets and functions seek to identify and manage risk, promoting safe, compliant and reliable operations. BP requirements, which take into account applicable laws and regulations, underpin the practical plans developed to help reduce risk and deliver these safe, compliant and reliable operations as well as greater efficiency and sustainable financial results. Business and strategic risk management – our businesses and functions integrate risk management into key business processes such as strategy, planning, performance management, resource and capital allocation, and project appraisal. We do this by using a standard framework for collating risk data, assessing risk management activities, making further improvements and planning new activities. Oversight and governance – throughout the year functional leadership, the executive team, the board and relevant committees provide oversight of how significant risks to BP are identified, assessed and managed. They help to ensure that risks are governed by relevant policies and are managed appropriately. BP's group risk team analyses the group's risk profile and maintains the group risk management system. Our group audit team provides independent assurance to the group chief executive and board as to whether the group's system of internal control is adequately designed and operating effectively to respond appropriately to the risks that are significant to BP.

Risk oversight and governance Key risk oversight and governance committees include the following:

- Executive committees
- Executive team meeting – for strategic and commercial risks.
- Group operations risk committee – for health, safety, security, environment and operations integrity risks.
- Group financial risk committee – for finance, treasury, trading and cyber risks.
- Group disclosure committee – for financial reporting risks.
- Group people committee – for employee risks.
- Group ethics and compliance committee – for legal and regulatory compliance and ethics risks.
- Resource commitment meeting – for investment decision risks.

Board and its committees

- BP board.
- Audit committee.
- Safety, ethics and environment assurance committee.
- Geopolitical committee.

See Board activity in 2017 on page 72 and committee reports on pages 77-89. Risk management processes As part of BP's annual planning process, we review the group's principal risks and uncertainties. These may be updated throughout the year in response to changes in internal and external circumstances. We aim for a consistent basis of measuring risk to allow comparison on a like-for-like basis, taking into account potential impact and likelihood, and to inform how we prioritize specific risk management activities and invest resources to manage them. How we manage risk Strategic report – performance BP Annual Report and Form 20-F 2017 55

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Our risk profile The nature of our business operations is long term, resulting in many of our risks being enduring in nature. Nonetheless, risks can develop and evolve over time and their potential impact or likelihood may vary in response to internal and external events. We identify high priority risks for particular oversight by the board and its various committees in the coming year. Those identified for 2018 are listed in this section. These may be updated throughout the year in response to changes in internal and external circumstances. The oversight and management of other risks, for example technological change or the transition to a lower carbon economy, is undertaken in the normal course of business and in the executive team, the board and relevant committees. There can be no certainty that our risk management activities will mitigate or prevent these, or other risks, from occurring. Further details of the principal risks and uncertainties we face are set out in Risk factors on page 57. Risks for particular oversight by the board and its committees in 2018 The risks for particular oversight by the board and its committees in R018 have been reviewed and updated. These risks remain the same as for 2017. Strategic and commercial risks Financial liquidity External market conditions can impact our financial performance. Supply and demand and the prices achieved for our products can be affected by a wide range of factors including political developments, global economic conditions and the influence of OPEC. We seek to manage this risk through BP's diversified portfolio, our financial framework, liquidity stress testing, regular reviews of market conditions and our planning and investment processes. Geopolitical The diverse locations of our operations around the world expose us to a wide range of political developments and consequent changes to the economic and operating environment. Geopolitical risk is inherent to many regions in which we operate, and heightened political or social tensions or changes in key relationships could adversely affect the group. We seek to manage this risk through development and maintenance of relationships with governments and stakeholders and by becoming trusted partners in each country and region. In addition, we closely monitor events and implement risk mitigation plans where appropriate. Cyber security The targeted and indiscriminate threats to the security of our digital infrastructure continue to evolve rapidly and are increasingly prevalent across industries worldwide. The oil and gas industry is subject to evolving risks from a variety of cyber threat actors, including nation states, criminals, terrorists, hacktivists and insiders. A cyber security breach could disrupt our business, injure people, harm the environment or our assets, or result in legal or regulatory breaches. We seek to manage this risk through a range of measures, which include cyber security standards, security protection tools, ongoing detection and monitoring of threats and testing of cyber response and recovery procedures. We collaborate closely with governments, law enforcement agencies and industry peers to understand and respond to new and emerging cyber threats. We build awareness with our staff, share information on incidents with leadership for continuous learning and conduct regular exercises including with the executive team to test response and recovery procedures. Safety and operational risks Process safety, personal safety and environmental risks The nature of the group's operating activities exposes us to a wide range of significant health, safety and environmental risks such as incidents associated with releases of hydrocarbons when drilling wells, operating facilities and transporting hydrocarbons. Our operating management system helps us manage these risks and drive performance improvements. It sets out the rules and principles which govern key risk management activities such as inspection, maintenance, testing, business continuity and crisis response planning and competency development. In addition, we conduct our drilling activity through a global wells organization in order to promote a consistent approach for designing, constructing and managing wells. Security Hostile acts such as terrorism or piracy could harm our people and disrupt our operations. We monitor for emerging threats and vulnerabilities to manage our physical and information security. Our central security team provides guidance and support to our businesses through a network of regional security advisers who advise and conduct assurance with respect to the management of security risks affecting our people and operations. We continue to monitor threats globally and maintain disaster recovery, crisis and business continuity management plans. Compliance and control risks Ethical misconduct and legal or regulatory non-compliance Ethical misconduct or breaches of applicable laws or regulations could damage our reputation, adversely affect operational results and shareholder value, and potentially affect our licence to operate. Our code of conduct and our values and behaviours, applicable to all employees, are central to managing this risk. Additionally, we have various group requirements and training covering areas such as anti-bribery and corruption, anti-money laundering, competition/ anti-trust law and international trade regulations. We seek to keep abreast of new regulations and legislation and plan our response to them. We offer an independent confidential helpline, OpenTalk, for employees, contractors and other third parties. Under the terms of the R014 settlement with the US Environmental Protection Agency, an ethics monitor is reviewing and providing recommendations concerning BP's ethics and compliance programme. Trading non-compliance In the normal course of business, we are subject to risks around our trading activities which could arise from shortcomings or failures in our systems, risk management methodology, internal control processes or employees. We have specific operating standards and control processes to manage these risks, including guidelines specific to trading, and seek to monitor compliance through our dedicated compliance teams. We also seek to maintain a positive and collaborative relationship with regulators and the industry at large. See Glossary BP Annual Report and Form 20-F 201756

The risks discussed below, separately or in combination, could have a material adverse effect on the implementation of our strategy, our business, financial performance, results of operations, cash flows, liquidity, prospects, shareholder value and returns and reputation. Strategic and commercial risks – Prices and markets – our financial performance is impacted by fluctuating prices of oil, gas and refined products, technological change, exchange rate fluctuations, and the general macroeconomic outlook. Oil, gas and product prices are subject to international supply and demand and margins can be volatile. Political developments, increased supply from new oil and gas sources, technological change, global economic conditions and the influence of OPEC can impact supply and demand and prices for our products. Decreases in oil, gas or product prices could have an adverse effect on revenue, margins, profitability and cash flows. If significant or for a prolonged period, we may have to write down assets and re-assess the viability of certain projects, which may impact future cash flows, profit, capital expenditure and ability to maintain our long-term investment programme. Conversely, an increase in oil, gas and product prices may not improve margin performance as there could be increased fiscal take, cost inflation and more onerous terms for access to resources. The profitability of our refining and petrochemicals activities can be volatile, with periodic over-supply or supply tightness in regional markets and fluctuations in demand. Exchange rate fluctuations can create currency exposures and impact underlying costs and revenues. Crude oil prices are generally set in US dollars, while product prices vary in currency. Many of our major project development costs are denominated in local currencies, which may be subject to fluctuations against the US dollar. Access, renewal and reserves progression – our inability to access, renew and progress upstream resources in a timely manner could adversely affect our long-term replacement of reserves. Delivering our group strategy depends on our ability to continually replenish a strong exploration pipeline of future opportunities to access and produce oil and natural gas. Competition for access to investment opportunities, heightened political and economic risks in certain countries where significant hydrocarbon basins are located and increasing technical challenges and capital commitments may adversely affect our strategic progress. This, and our ability to progress upstream resources and sustain long-term reserves replacement, could impact our future production and financial performance. Major project delivery – failure to invest in the best opportunities or deliver major projects successfully could adversely affect our financial performance. We face challenges in developing major projects, particularly in geographically and technically challenging areas. Operational challenges and poor investment choice, efficiency or delivery at any major project that underpins production or production growth could adversely affect our financial performance. Geopolitical – exposure to a range of political developments and consequent changes to the operating and regulatory environment could cause business disruption. We operate and may seek new opportunities in countries and regions where political, economic and social transition may take place. Political instability, changes to the regulatory environment or taxation, international sanctions, expropriation or nationalization of property, civil strife, strikes, insurrections, acts of terrorism and acts of war may disrupt or curtail our operations or development activities. These may in turn cause production to decline, limit our ability to pursue new opportunities, affect the recoverability of our assets or cause us to incur additional costs, particularly due to the long-term nature of many of our projects and significant capital expenditure required. Events in or relating to Russia, including trade restrictions and other sanctions, could adversely impact our income and investment in or relating to Russia. Our ability to pursue business objectives and to recognize production and reserves relating to these investments could also be adversely impacted. Liquidity, financial capacity and financial, including credit, exposure – failure to work within our financial framework could impact our ability to operate and result in financial loss. Failure to accurately forecast or work within our financial framework could impact our ability to operate and result in financial loss. Trade and other receivables, including overdue receivables, may not be recovered and a substantial and unexpected cash call or funding request could disrupt our financial framework or overwhelm our ability to meet our obligations. An event such as a significant operational incident, legal proceedings or a geopolitical event in an area where we have significant activities, could reduce our credit ratings. This could potentially increase financing costs and limit access to financing or engagement in our trading activities on acceptable terms, which could put pressure on the group's liquidity. Credit rating downgrades could also trigger a requirement for the company to review its funding arrangements with the BP pension trustees and may cause other impacts on financial performance. In the event of extended constraints on our ability to obtain financing, we could be required to reduce capital expenditure or increase asset disposals in order to provide additional liquidity. See Liquidity and capital resources on page 251 and Financial statements – Note 27. Joint arrangements and contractors – varying levels of control over the standards, operations and compliance of our partners, contractors and sub-contractors could result in legal liability and reputational damage. We conduct many of our activities through joint arrangements, associates or with contractors and sub-contractors where we may have limited influence and control over the performance of such operations. Our partners and contractors are responsible for the adequacy of the resources and capabilities they bring to a project. If these are found to be lacking, there may be financial, operational or safety risks for BP. Should an incident occur in an operation that BP participates in, our partners and contractors may be unable or unwilling to fully compensate us against costs we may incur on their behalf or on behalf of the arrangement. Where we do not have operational control of a venture, we may still be pursued by regulators or claimants in the event of an incident. Digital infrastructure and cyber security – breach of our digital security or failure of our digital infrastructure including loss or misuse of sensitive information could damage our operations, increase costs and damage our reputation. The oil and gas industry is subject to fast-evolving risks from cyber threat actors, including nation states, criminals, terrorists, hacktivists and insiders. A breach or failure of our digital infrastructure – including control systems – due to breaches of our cyber defences, or those of third parties, negligence, intentional misconduct or other reasons, could seriously disrupt our operations. This could result in the loss or misuse of data or sensitive information, injury to people, disruption to our business, harm to the environment or our assets, legal or regulatory breaches and legal liability. Furthermore, the rapid detection of attempts to gain unauthorized access to our digital infrastructure, often through the use of sophisticated and co-ordinated means, is a challenge and any delay or failure to detect could compound these potential harms. These could result in significant costs including the cost of remediation or reputational consequences. Climate change and the transition to a lower carbon economy – policy, legal, regulatory, technology and market change related to the issue of climate change could increase costs, reduce demand for our products, reduce revenue and limit certain growth opportunities. Changes in laws, regulations, policies, obligations, social attitudes and customer preferences relating to the transition to a lower carbon economy could have a cost impact on our business, including increasing compliance and litigation costs, and could impact our strategy. Such changes could lead to constraints on production and supply and access to new reserves. Technological improvements or innovations that support the transition to a lower carbon economy, and customer preferences or regulatory incentives related to such changes that alter fuel or power choices, such as towards low emission energy sources, could impact demand for oil and gas. Depending on the nature and speed of any such changes and our response, this could adversely affect the demand for our products, investor sentiment, our financial performance and our competitiveness. See Climate change on page 50. Competition – inability to remain efficient, maintain a high quality portfolio of assets, innovate and retain an appropriately skilled workforce could negatively impact delivery of our strategy in a highly competitive market. Our strategic progress and performance could be impeded if we are unable to control our development and operating costs and margins, or to sustain, develop and operate a high-quality portfolio of assets efficiently. We could be adversely affected if competitors offer superior terms for access rights or licences, or if our innovation in areas such as exploration, production, refining, manufacturing, renewable energy or new technologies lags the industry. Our performance could also be negatively impacted if we fail to protect our intellectual property. Risk factors See Glossary Strategic report – performance BP Annual Report and Form 20-F 2017 57

Our industry faces increasing challenge to recruit and retain skilled and experienced people in the fields of science, technology, engineering and mathematics. Successful recruitment, development and retention of specialist staff is essential to our plans. Crisis management and business continuity – failure to address an incident effectively could potentially disrupt our business. Our business activities could be disrupted if we do not respond, or are perceived not to respond, in an appropriate manner to any major crisis or if we are not able to restore or replace critical operational capacity. Insurance – our insurance strategy could expose the group to material uninsured losses. BP generally purchases insurance only in situations where this is legally and contractually required. Some risks are insured with third parties and reinsured by group insurance companies. Uninsured losses could have a material adverse effect on our financial position, particularly if they arise at a time when we are facing material costs as a result of a significant operational event which could put pressure on our liquidity and cash flows. Safety and operational risks Process safety, personal safety, and environmental risks – exposure to a wide range of health, safety, security and environmental risks could result in regulatory action, legal liability, business interruption, increased costs, damage to our reputation and potentially denial of our licence to operate. Technical integrity failure, natural disasters, extreme weather or a change in its frequency or severity, human error and other adverse events or conditions could lead to loss of containment of hydrocarbons or other hazardous materials or constrained availability of resources used in our operating activities, as well as fires, explosions or other personal and process safety incidents, including when drilling wells, operating facilities and those associated with transportation by road, sea or pipeline. There can be no certainty that our operating management system or other policies and procedures will adequately identify all process safety, personal safety and environmental risks or that all our operating activities will be conducted in conformance with these systems. See Safety and security on page 47. Such events or conditions, including a marine incident, or inability to provide safe environments for our workforce and the public while at our facilities, premises or during transportation, could lead to injuries, loss of life or environmental damage. As a result we could face regulatory action and legal liability, including penalties and remediation obligations, increased costs and potentially denial of our licence to operate. Our activities are sometimes conducted in hazardous, remote or environmentally sensitive locations, where the consequences of such events or conditions could be greater than in other locations. Drilling and production – challenging operational environments and other uncertainties could impact drilling and production activities. Our activities require high levels of investment and are sometimes conducted in challenging environments such as those prone to natural disasters and extreme weather, which heightens the risks of technical integrity failure. The physical characteristics of an oil or natural gas field, and cost of drilling, completing or operating wells is often uncertain. We may be required to curtail, delay or cancel drilling operations because of a variety of factors, including unexpected drilling conditions, pressure or irregularities in geological formations, equipment failures or accidents, adverse weather conditions and compliance with governmental requirements. Security – hostile acts against our staff and activities could cause harm to people and disrupt our operations. Acts of terrorism, piracy, sabotage and similar activities directed against our operations and facilities, pipelines, transportation or digital infrastructure could cause harm to people and severely disrupt operations. Our activities could also be severely affected by conflict, civil strife or political unrest. Product quality – supplying customers with off-specification products could damage our reputation, lead to regulatory action and legal liability, and impact our financial performance. Failure to meet product quality standards could cause harm to people and the environment, damage our reputation, result in regulatory action and legal liability, and impact financial performance. Compliance and control risks US government settlements – failure to comply with the terms of our settlement with the US Environmental Protection Agency related to the Gulf of Mexico oil spill may expose us to further penalties or liabilities or could result in suspension or debarment of certain BP entities. Failure to satisfy the requirements or comply with the terms of the administrative agreement with the US Environmental Protection Agency (EPA), under which BP agreed to a set of safety and operations, ethics and compliance and corporate governance requirements, could result in suspension or debarment of certain BP entities. Regulation – changes in the regulatory and legislative environment could increase the cost of compliance, affect our provisions and limit our access to new growth opportunities. Governments that award exploration and production interests may impose specific drilling obligations, environmental, health and safety controls, controls over the development and decommissioning of a field and possibly, nationalization, expropriation, cancellation or non-renewal of contract rights. Royalties and taxes tend to be high compared with those imposed on similar commercial activities, and in certain jurisdictions there is a degree of uncertainty relating to tax law interpretation and changes. Governments may change their fiscal and regulatory frameworks in response to public pressure on finances, resulting in increased amounts payable to them or their agencies. Such factors could increase the cost of compliance, reduce our profitability in certain jurisdictions, limit our opportunities for new access, require us to divest or write down certain assets or curtail or cease certain operations, or affect the adequacy of our provisions for pensions, tax, decommissioning, environmental and legal liabilities. Potential changes to pension or financial market regulation could also impact funding requirements of the group. Following the Gulf of Mexico oil spill, we may be subjected to a higher level of fines or penalties imposed in relation to any alleged breaches of laws or regulations, which could result in increased costs. Ethical misconduct and non-compliance – ethical misconduct or breaches of applicable laws by our businesses or our employees could be damaging to our reputation, and could result in litigation, regulatory action and penalties. Incidents of ethical misconduct or non-compliance with applicable laws and regulations, including anti-bribery and corruption and anti-fraud laws, trade restrictions or other sanctions, or non-compliance with the recommendations of the ethics monitor appointed under the terms of the EPA settlements, could damage our reputation, result in litigation, regulatory action and penalties. Treasury and trading activities – ineffective oversight of treasury and trading activities could lead to business disruption, financial loss, regulatory intervention or damage to our reputation. We are subject to operational risk around our treasury and trading activities in financial and commodity markets, some of which are regulated. Failure to process, manage and monitor a large number of complex transactions across many markets and currencies while complying with all regulatory requirements could hinder profitable trading opportunities. There is a risk that a single trader or a group of traders could act outside of our delegations and controls, leading to regulatory intervention and resulting in financial loss, fines and potentially damaging our reputation. See Financial statements – Note 27. Reporting – failure to accurately report our data could lead to regulatory action, legal liability and reputational damage. External reporting of financial and non-financial data, including reserves estimates, relies on the integrity of systems and people. Failure to report data accurately and in compliance with applicable standards could result in regulatory action, legal liability and damage to our reputation. See Glossary The Strategic report was approved by the board and signed on its behalf by David J Jackson, company secretary on 29 March 2018. BP Annual Report and Form 20-F 201758

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BP Annual Report and Form 20-F 2017 59 Corporate governance al rt a r - V0 Board of directors 66 Executive team 68 Executive management teams 70 Introduction from the chairman 71 Governance framework 71 Board and committee attendance 72 Board activity in 2017 72 Role of the board 73 Skills and expertise 73 Diversity 73 Independence 73 Appointment and time commitment 74 Training and induction 74 Board evaluation 75 Site visits 76 Shareholder engagement 76 Institutional investors 76 Private investors 76 AGM 76 UK Corporate Governance Code compliance 76 International advisory board 77 Committee reports 77 Audit committee 84 Safety, ethics and environment assurance committee 86 Remuneration committee 87 Geopolitical committee 88 Chairman's committee 89 Nomination committee 90 Directors' remuneration report 93 Summary of pay and performance 94 Summary of policy approach 95 Single figure table 96 Alignment with strategy 98 Pay and performance for 2017 102 Implementation of policy for 2018 105 Stewardship 107 Non-executive directors 108 Executive directors' interests 110 Policy summary tables Corporate governance

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BP Annual Report and Form 20-F 201760 Board of directors As at 29 March 2018 Carl-Henric Svanberg Chairman Chair of the nomination and chairman's committees; attends SEEA, remuneration and geopolitical committees Bob Dudley Group chief executive Brian Gilvary Chief financial officer Nils Andersen Independent non-executive director Member of the audit and chairman's committees Paul Anderson Independent non-executive director Member of the SEEA, geopolitical and chairman's committees Alan Boeckmann Independent non-executive director Chair of SEEA committee; member of the remuneration, nomination and chairman's committees Admiral Frank Bowman Independent non-executive director Member of the SEEA, geopolitical and chairman's committees Ian Davis Senior independent non-executive director Member of the remuneration, geopolitical, nomination and chairman's committees Professor Dame Ann Dowling Independent non-executive director Chair of the remuneration committee; member of the SEEA, nomination and chairman's committees Melody Meyer Independent non-executive director Member of the SEEA, geopolitical and chairman's committees Brendan Nelson Independent non-executive director Chair of the audit committee; member of the chairman's and remuneration committees Paula Rosput Reynolds Independent non-executive director Member of the audit, chairman's and remuneration committees Sir John Sawers Independent non-executive director Chair of the geopolitical committee; member of the SEEA, nomination and chairman's committees David Jackson Company secretary See BP's board governance principles relating to director independence on page 275. a Safety, ethics and environment assurance

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BP Annual Report and Form 20-F 2017 61 Corporate governance Carl-Henric Svanberg Chairman Tenure Appointed 1 September 2009 Board and committee activities Chair of the nomination and chairman's committees; attends the safety, ethics and environment assurance, remuneration and geopolitical committees Outside interests • Chairman of AB Volvo Age 65 Nationality Swedish Career Carl-Henric Svanberg became chairman of the BP board on 1 January 2010. He spent his early career at Asea Brown Boveri and the Securitas Group, before moving to the Assa Abloy Group as president and chief executive officer. From 2003 until December 2009, he was president and chief executive officer of Ericsson, also serving as the chairman of Sony Ericsson Mobile Communications AB. He was a non-executive director of Ericsson between 2009 and 2012. He was appointed chairman and a member of the board of AB Volvo in April 2012. He is a member of the External Advisory Board of the Earth Institute at Columbia University and a member of the Advisory Board of Harvard Kennedy School. He is also the recipient of the King of Sweden's medal for his contribution to Swedish industry. Relevant skills and experience Carl-Henric Svanberg is a highly experienced leader of global corporations. He has served as chief executive officer and chairman to several high profile businesses, leading them through both periods of growth and restructuring. These experiences bring not only a deep understanding of international strategic and commercial issues, but the skills to co-ordinate the diverse range of knowledge and perspectives provided by the board. He therefore enables the board to present clear and united leadership on behalf of shareholders. Carl-Henric has successfully led the board for the past eight years and has announced his intention to stand down before the AGM in 2019. Carl-Henric's performance has been evaluated by the chairman's committee, led by Ian Davis.

Bob Dudley Group chief executive Tenure Appointed to the board 6 April 2009 Outside interests • Fellow of the Royal Academy of Engineering • Non-executive director of Rosneft • Member of the Tsinghua Management University Advisory Board, Beijing, China • Member of the BritishAmerican Business International Advisory Board • Member of the US Business Council • Member of the US Business Roundtable • Member of the UAE/UK CEO Forum • Member of the Emirates Foundation Board of Trustees • Member of the World Economic Forum (WEF) International Business Council • Chair of the WEF Oil and Gas Climate Initiative • Member of the Russian Geographical Society Board of Trustees Age 62 Nationality American and British Career Bob Dudley became group chief executive on 1 October 2010. Bob joined Amoco Corporation in 1979, working in a variety of engineering and commercial posts. Between 1994 and 1997 he worked on corporate development in Russia. In 1997 he became general manager for strategy for Amoco and in 1999, following the merger between BP and Amoco, was appointed to a similar role in BP. Between 1999 and 2000 he was executive assistant to the group chief executive, subsequently becoming group vice president for BP's renewables and alternative energy activities. In 2002 he became group vice president responsible for BP's upstream businesses in Russia, the Caspian region, Angola, Algeria and Egypt. From 2003 to 2008 he was president and chief executive officer of TNK-BP. On his return to BP in 2009, he was appointed to the BP board and oversaw the group's activities in the Americas and Asia. Between 3 June and 30 September 2010, he served as the president and chief executive officer of BP's Gulf Coast Restoration Organization in the US. He was appointed a director of Rosneft in March 2013 following BP's acquisition of a stake in Rosneft. Relevant skills and experience Bob Dudley has spent his whole career in the oil and gas industry. As group chief executive, Bob has transformed BP into a safer, stronger and simpler business. This approach, governed by a consistent set of values, has guided BP to a position of greater resilience, enabling it to continue delivering results in an uncertain economic environment. Bob has demonstrated excellent leadership and vision throughout. Bob continues to lead the development of the group's strategy, as we adapt to the challenges of the transition to a lower carbon economy. Under Bob's leadership, BP successfully delivered seven major projects in 2017. Bob Dudley's performance has been considered and evaluated by the chairman's committee.

Brian Gilvary Chief financial officer Tenure Appointed to the board 1 January 2012 Outside interests • Non-executive director and member of audit committee of L'Air Liquide • Non-executive director and vice chair of audit committee of the Navy Board • Vice chair of the 100 Group Committee • Member of Trilateral Commission • Visiting professor at Manchester University • Great Britain Age Group triathlete Age 56 Nationality British Career Brian Gilvary was appointed chief financial officer on 1 January 2012. The role includes responsibility for finance, tax, treasury, mergers and acquisitions, investor relations, audit, global business services, information technology and procurement. He also has accountability for both integrated supply and trading, and the shipping division responsible for BP's tanker fleet. Brian joined BP in 1986 after obtaining a PhD in mathematics from the University of Manchester. Following a broad range of roles in upstream, downstream and trading in Europe and the US, he became downstream's commercial director from 2002 to 2005. From 2005 until 2009 he was chief executive of the integrated supply and trading function, BP's commodity trading arm. In 2010 he was appointed deputy group chief financial officer with responsibility for the finance function.

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BP Annual Report and Form 20-F 201762 He was a director of TNK-BP over two periods, from 2003 to 2005 and from 2010 until the sale of the business and BP's acquisition of Rosneft equity in 2013. He served on the HM Treasury Financial Management Review Board from 2014 to 2017. Relevant skills and experience Brian Gilvary has spent his entire career with BP. Brian has broad experience across the group which gives him a deep insight into BP's assets and businesses. This knowledge has been invaluable as BP has implemented its strategy to transform into a 'value not volume' based business where trading is a key creator of value. His strong understanding of finance and trading has been vital in adjusting capital structures and operational costs while ensuring the group continues to be capable of meeting new opportunities. Brian has been at the centre of the group's work on addressing cyber risk. Brian Gilvary's performance has been evaluated by the group chief executive and considered by the chairman's committee. Nils Andersen Independent non-executive director Tenure Appointed 31 October 2016 Board and committee activities Member of the audit and chairman's committees Outside interests • Non-executive director of Unilever Plc and Unilever NV • Chairman of Dansk Supermarked Group A/S • Chairman of Unifeeder Group A/S • Chairman of Faerch Plast A/S Age 59 Nationality Danish Career Nils Andersen was group chief executive of A.P. Møller-Mærsk from R007 to June 2016. Prior to this he was executive vice president of Carlsberg A/S and Carlsberg Breweries A/S from 1999 to 2001, becoming president and chief executive officer from 2001 to 2007. Previous roles include non-executive director of Inditex S.A. and William Demant A/S. He has also served as managing director of Union Cervecera, Hanne Braueri and chief executive officer of the drinks division of the Hero Group. Nils has been nominated for election as a member and chairman of the supervisory board of Akzo Nobel N.V. following his successful appointment at their AGM in April 2018. Nils received his graduate degree from the University of Aarhus. Relevant skills and experience Nils Andersen has extensive experience in consumer goods, retail and logistics, having led global corporations with integrated operations worldwide. He has substantial skill, knowledge and experience in marketing, brand and reputation issues. He has broad shipping and upstream energy industry experience which aligns with BP's shipping business. His leadership earlier in his career focused on the transformation of businesses, leaner organizations and increasing competitiveness, as well as increasing transparency and communication with stakeholders. Nils' economics and broad financial background make him well suited to his role on the audit committee. Paul Anderson Independent non-executive director Tenure Appointed 1 February 2010 Board and committee activities Member of the safety, ethics and environment assurance, geopolitical and chairman's committees Outside interests No external appointments Age 73 Nationality American Career Paul Anderson was formerly chief executive at BHP Billiton and Duke Energy, where he also served as chairman of the board. Having previously been chief executive officer and managing director of BHP Limited and then BHP Billiton Limited and BHP Billiton Plc, he rejoined these latter two boards in 2006 as a non-executive director, retiring in January 2010. Previously he served as a non-executive director of BAE Systems PLC and on a number of boards in the US and Australia, and was also chief executive officer of Pan Energy Corp. Relevant skills and experience Paul Anderson has spent his career in the energy industry working with global organizations, and brings the skills of an experienced chairman and chief executive officer to the board. His specific experience of driving safety-related cultural change throughout a business has been invaluable during his tenure as chair of the safety, ethics, and environment assurance committee from 2012 to 2016, and he remains a valuable member of the committee. Paul's experience of business in the US and its regulatory environment is a great asset to the geopolitical committee. Paul Anderson will be retiring from the board at the 2018 AGM in May. Alan Boeckmann Independent non-executive director Tenure Appointed 24 July 2014 Board and committee activities Chair of the safety, ethics and environment assurance committee; member of the remuneration, nomination and chairman's committees Outside interests • Non-executive director of Sempra Energy • Non-executive director of Archer Daniels Midland Age 69 Nationality American Career Alan Boeckmann retired as non-executive chairman of Fluor Corporation in February 2012, ending a 35-year career with the company. Between R002 and 2011 he held the post of chairman and chief executive officer, having previously been president and chief operating officer from 2001 to 2002. His tenure with the company included responsibility for global operations. As chairman and chief executive officer, he refocused the company on engineering, procurement, construction and maintenance services. After graduating from the University of Arizona with a degree in electrical engineering, he joined Fluor in 1974 as an engineer and worked in a variety of domestic and international locations, including South Africa and Venezuela.

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BP Annual Report and Form 20-F 2017 63 Corporate governance Alan was previously a non-executive director of BHP Billiton and the Burlington Santa Fe Corporation, and has served on the boards of the American Petroleum Institute, the National Petroleum Council, the Eisenhower Medical Center and the advisory board of Southern Methodist University's Cox School of Business. He led the formation of the World Economic Forum's 'Partnering Against Corruption' initiative in 2004. Relevant skills and experience Alan Boeckmann has worked in a wide range of industries including engineering, construction, chemicals and the energy sector. He has been involved in delivering very large projects particularly in the energy industry. In his senior roles he directed the focus of global corporations towards the advanced technology needed to remain competitive in response to the growth of the internet, e-commerce and the globalization of the workforce. At the same time he actively promoted fairness, transparency, accountability and responsibility in business dealings through the 'Partnering Against Corruption' initiative. This overall experience makes Alan ideal to lead the SEEAC. His remuneration experience on other boards means that he makes a strong contribution to the remuneration committee. Admiral Frank Bowman Independent non-executive director Tenure Appointed 8 November 2010 Board and committee activities Member of the safety, ethics and environment assurance, geopolitical and chairman's committees Outside interests • President of Strategic Decisions, LLC • Director of Morgan Stanley Mutual Funds • Director of Naval and Nuclear Technologies, LLP Age 73 Nationality American Career Frank L Bowman served for more than 38 years in the US Navy, rising to the rank of Admiral. He commanded the nuclear submarine USS City of Corpus Christi and the submarine tender USS Holland. After promotion to flag officer, he served on the joint staff as director of political-military affairs and as the chief of naval personnel. He served over eight years as director of the Naval Nuclear Propulsion Program where he was responsible for the operations of more than 100 reactors aboard the US Navy's aircraft carriers and submarines. After his retirement as an Admiral in 2004, he was president and chief executive officer of the Nuclear Energy Institute until 2008. He served on the BP Independent Safety Review Panel and was a member of the BP America External Advisory Council. He holds two masters degrees in engineering from the Massachusetts Institute of Technology. He was appointed Honorary Knight Commander of the British Empire in 2005. He was elected to the US National Academy of Engineering in 2009. Frank is a member of the US CNA military advisory board and has participated in studies of climate change and its impact on national security, and on future global energy solutions and water scarcity. Additionally he was co-chair of a National Academies study investigating the implications of climate change for naval forces. Relevant skills and experience Frank Bowman's exemplary safety record in running the US Navy's nuclear submarine program indicates his deep understanding of process safety and its implementation. Frank makes a substantial contribution to the safety culture within BP. Combined with his specific knowledge of BP's safety goals from his work on the BP Independent Safety Review Panel and his special interest in climate change, he brings an important perspective to the board and the SEEAC. He has led the oversight of BP's compliance with the agreements with the US government stemming from the Deepwater Horizon accident. Frank's experience of the US and global political and regulatory systems is a valuable asset to the geopolitical committee. Ian Davis Senior independent non-executive director Tenure Appointed 2 April 2010 Board and committee activities Member of the remuneration, geopolitical, nomination and chairman's committees Outside interests • Chairman of Rolls-Royce Holdings plc • Non-executive director of Majid Al Futtaim Holding LLC • Non-executive director of Johnson & Johnson, Inc. • Non-executive director of Teach for All Age 67 Nationality British Career Ian Davis is senior partner emeritus of McKinsey & Company. He was a partner at McKinsey for 31 years until 2010 and served as chairman and managing director between 2003 and 2009. Ian has a MA in Politics, Philosophy and Economics from Balliol College, University of Oxford. Relevant skills and experience Ian Davis brings global financial and strategic experience to the board. He has worked with and advised global organizations and companies in a wide variety of sectors including oil and gas and the public sector. He is able to draw on knowledge of diverse issues and outcomes to assist the board and its committees. Ian led the board's oversight of the response in the Gulf and chaired the Gulf of Mexico committee from its formation in 2010 until it was stood down in 2016. He was previously a non-executive director in the Cabinet Office giving him an important perspective on government affairs which is an asset to both the board and the geopolitical committee. In his role as the senior independent director, Ian is responsible for the annual evaluation of the chairman's performance and is leading the search for the successor to the chairman.

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BP Annual Report and Form 20-F 201764 Professor Dame Ann Dowling Independent non-executive director Tenure Appointed 3 February 2012 Board and committee activities Chair of the remuneration committee; member of the safety, ethics and environment assurance, nomination and chairman's committees Outside interests • President of the Royal Academy of Engineering • Deputy vice-chancellor and professor of Mechanical Engineering at the University of Cambridge • Member of the Prime Minister's Council for Science and Technology • Non-executive director of the Department for Business, Energy and Industrial Strategy (BEIS) Age 65 Nationality British Career Dame Ann Dowling is a deputy vice-chancellor at the University of Cambridge where she was appointed a professor of mechanical engineering in the department of engineering in 1993. She was head of the department of engineering at the university from 2009 to 2014. Her research is in fluid mechanics, acoustics and combustion, and she has held visiting posts at MIT and at Caltech. She chairs BP's technical advisory council. Dame Ann is a fellow of the Royal Society and the Royal Academy of Engineering and a foreign associate of the US National Academy of Engineering, the Chinese Academy of Engineering and the French Academy of Sciences. She has honorary degrees from 15 universities, including the University of Oxford, Imperial College London and the KTH Royal Institute of Technology, Stockholm. She was elected President of the Royal Academy of Engineering in September 2014 and in December 2015 was appointed to the Order of Merit. Relevant skills and experience Dame Ann is an internationally respected leader in engineering research and the practical application of new technology in industry. Her contribution in these fields has been widely recognized by universities around the world. Her academic background provides balance to the board and brings a different perspective to the SEEAC and nomination committee. Dame Ann became chair of the remuneration committee in 2015. Following an extensive consultation, a revised remuneration policy was approved by shareholders at the 2017 AGM. This was a direct result of Dame Ann's leadership of the committee. Dame Ann will hand the chair of the committee to Paula Reynolds after the 2018 AGM.

Melody Meyer Independent non-executive director Tenure Appointed 17 May 2017 Board and committee activities Member of the safety, ethics and environment assurance, geopolitical and chairman's committees Outside interests • President of Melody Meyer Energy LLC • Director of the National Bureau of Asian Research • Trustee of Trinity University • Non-executive director of AbbVie Inc. • Senior Advisor to Cairn India Limited • Non-executive director of National Oilwell Varco, Inc. Age 60 Nationality American Career Melody Meyer started her career with Gulf Oil in Houston. Gulf Oil later merged with Chevron where Melody remained until her retirement in 2016. During her career with Chevron, Melody had key leadership roles in global exploration and production, working on international projects and operational assignments. In 2004 Melody became the vice president for the Gulf of Mexico business unit, and in 2008 became president of the Chevron Energy Technology Company. From 2011 Melody was president of Asia Pacific Exploration and Production, responsible for the financial and operating performance of the upstream assets in nine countries in Chevron's Asia Pacific region. Melody was the executive sponsor of the Chevron Women's Network and continues as a mentor and advocate for the advancement of women in the industry. She was recognized as a 2009 Trinity Distinguished Alumni, with the BioHouston Women in Science Award, was the ASME Rhodes Petroleum Industry Leadership Award recipient and in 2018 as an Influential Woman in Energy. Relevant skills and experience Melody Meyer has spent her entire career in the oil and gas industry. The breadth, variety and geographic scope of her experience is distinctive. Her career has been marked by a focus on excellence, safety and performance improvement. She has expertise in the execution of major capital projects, creation of businesses in new countries, strategic and business planning, merger integration and safe and reliable operations. Melody brings a world class operational perspective to the board, with a deep understanding of the factors influencing safe, efficient and commercially high-performing projects in a global organization.

Brendan Nelson Independent non-executive director Tenure Appointed 8 November 2010 Board and committee activities Chair of the audit committee; member of the chairman's and remuneration committees Outside interests • Non-executive director and chairman of the group audit committee of The Royal Bank of Scotland Group plc • Member of the Financial Reporting Review Panel Age 68 Nationality British

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BP Annual Report and Form 20-F 2017 65 Corporate governance Career Brendan Nelson is a chartered accountant. He was made a partner of KPMG in 1984. He served as a member of the UK board of KPMG from R000 to 2006, subsequently being appointed vice chairman until his retirement in 2010. At KPMG International he held a number of senior positions including global chairman, banking and global chairman, financial services. He served for six years as a member of the Financial Services Practitioner Panel and in 2013 was the president of the Institute of Chartered Accountants of Scotland.

Relevant skills and experience Brendan Nelson has completed a wide variety of audit, regulatory and due-diligence engagements over the course of his career. He played a significant role in the development of the profession's approach to the audit of banks in the UK, with particular emphasis on establishing auditing standards. He continues to contribute in his role as a member of the Financial Reporting Review Panel. This wide experience makes him ideally suited to chair the audit committee and to act as its financial expert. He brings related input from his role as the chair of the audit committee of a major bank.

His specialism in the financial services industry allows him to contribute insight into the challenges faced by global businesses by regulatory frameworks. Brendan led the successful tendering of BP's audit services and joined the remuneration committee in 2017. Paula Rosput Reynolds Independent non-executive director Tenure Appointed 14 May 2015 Board and committee activities Member of the audit and chairman's committees Outside interests

• Non-executive director of BAE Systems Ltd • Non-executive director of TransCanada Corporation • Non-executive director of CBRE Group Age 61 Nationality American Career Paula Rosput Reynolds is the former chairman, president and chief executive officer of Safeco Corporation, a Fortune 500 property and casualty insurance company that was acquired by Liberty Mutual Insurance Group in 2008. She also served as vice chair and chief restructuring officer for American International Group (AIG) for a period after the US government became the financial sponsor from R008 to 2009. Previously Paula was an executive in the energy industry. She was chairman, president and chief executive officer of AGL Resources Inc., an operator of natural gas infrastructure in the US, now a subsidiary of Southern Company. Prior to this, she led a subsidiary of Duke Energy Corporation that was a merchant operator of electricity generation. She commenced her energy career at PG&E Corp. Paula was awarded the National Association of Corporate Directors (US) Lifetime Achievement Award in 2014. Relevant skills and experience Paula Rosput Reynolds has had a long career leading global companies in the energy and financial sectors. Her financial background and deep experience of trading makes her ideally suited to serve on the audit committee. Her experience with international and US companies, including several restructuring processes and mergers, gives her insight into strategic and regulatory issues, which is an asset to the board. Paula joined the remuneration committee in 2017. Paula currently serves as the chair of the remuneration committee of BAE Systems Ltd and will take the chair of BP's remuneration committee after the R018 AGM. Sir John Sawers Independent non-executive director Tenure Appointed 14 May 2015 Board and committee activities Chair of the geopolitical committee; member of the safety, ethics and environment assurance, nomination and chairman's committees Outside interests

• Chairman and partner of Macro Advisory Partners LLP • Visiting professor at King's College London • Governor of the Ditchley Foundation Age 62 Nationality British Career Sir John Sawers spent 36 years in public service in the UK, working on foreign policy, international security and intelligence. Sir John was chief of the Secret Intelligence Service, MI6, from 2009 to R014 – a period of international upheaval and growing security threats, as well as closer public scrutiny of the intelligence agencies. Prior to that, the bulk of his career was in diplomacy, representing the British government around the world and leading negotiations at the UN, in the European Union and in the G8. He was the UK ambassador to the United Nations (2007-09), political director and main board member of the Foreign Office (2003-07), special representative in Iraq (2003), ambassador to Egypt (2001-03) and foreign policy adviser to the Prime Minister (1999-01). Earlier in his career, he was posted to Washington, South Africa, Syria and Yemen. Sir John is now chairman of Macro Advisory Partners, a firm that advises clients on the intersection of policy, politics and markets. Relevant skills and experience Sir John Sawers' deep experience of international political and commercial matters is an asset to the board in navigating the geopolitical issues faced by a modern global company. Sir John brings a unique perspective and broad experience which makes him ideal to lead the geopolitical committee. His knowledge and skills related to analysing and negotiating on a worldwide basis are invaluable to both the board and the SEEAC. David Jackson Company secretary Tenure Appointed 2003 David Jackson, a solicitor, is a director of BP Pension Trustees Limited. The ages of the board are correct as at 29 March 2018.

• Non-executive director of BAE Systems Ltd • Non-executive director of TransCanada Corporation • Non-executive director of CBRE Group Age 61 Nationality American Career Paula Rosput Reynolds is the former chairman, president and chief executive officer of Safeco Corporation, a Fortune 500 property and casualty insurance company that was acquired by Liberty Mutual Insurance Group in 2008. She also served as vice chair and chief restructuring officer for American International Group (AIG) for a period after the US government became the financial sponsor from R008 to 2009. Previously Paula was an executive in the energy industry. She was chairman, president and chief executive officer of AGL Resources Inc., an operator of natural gas infrastructure in the US, now a subsidiary of Southern Company. Prior to this, she led a subsidiary of Duke Energy Corporation that was a merchant operator of electricity generation. She commenced her energy career at PG&E Corp. Paula was awarded the National Association of Corporate Directors (US) Lifetime Achievement Award in 2014. Relevant skills and experience Paula Rosput Reynolds has had a long career leading global companies in the energy and financial sectors. Her financial background and deep experience of trading makes her ideally suited to serve on the audit committee. Her experience with international and US companies, including several restructuring processes and mergers, gives her insight into strategic and regulatory issues, which is an asset to the board. Paula joined the remuneration committee in 2017. Paula currently serves as the chair of the remuneration committee of BAE Systems Ltd and will take the chair of BP's remuneration committee after the R018 AGM. Sir John Sawers Independent non-executive director Tenure Appointed 14 May 2015 Board and committee activities Chair of the geopolitical committee; member of the safety, ethics and environment assurance, nomination and chairman's committees Outside interests

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BP Annual Report and Form 20-F 201766 Tufan Erginbilgic Chief executive, Downstream Executive team tenure Appointed 1 October 2014
Outside interests • Independent non-executive director of GKN plc • Member of the Turkish-British Chamber of Commerce & Industry Board of Directors • Member of the Strategic Advisory Board of the University of Surrey Age 58 Nationality British and Turkish Career Tufan Erginbilgic was appointed chief executive, Downstream on Q October 2014. Prior to this, Tufan was the chief operating officer of the fuels business, accountable for BP's fuels value chains worldwide, the global fuels businesses and the refining, sales and commercial optimization functions for fuels. Tufan joined Mobil in 1990 and BP in 1997 and has held a wide variety of roles in refining and marketing in Turkey, various European countries and the UK. In 2004 he became head of the European fuels business. Tufan took up leadership of BP's lubricant business in 2006 before moving to head the group chief executive's office. In 2009 he became chief operating officer for the eastern hemisphere fuels value chains and lubricants businesses. Bob Fryar Executive vice president, safety and operational risk Executive team tenure Appointed 1 October 2010 Outside interests No external appointments Age 54 Nationality American Career Bob Fryar is responsible for strengthening safety, operational risk management and the systematic management of operations across the BP group. He is group head of safety and operational risk, with accountability for group-level disciplines including engineering, health, safety, security, remediation management and the environment. In this capacity, he looks after the group-wide operating management system implementation and capability programmes. Bob has over 30 years' experience in the oil and gas industry, having joined Amoco Production Company in 1985. Between 2010 and R013, Bob was executive vice president of the production division, accountable for safe and compliant exploration and production operations and stewardship of resources across all regions. Prior to this, Bob was chief executive of BP Angola and also held several management positions in Trinidad, including chief operating officer for Atlantic LNG and vice president of operations. Bob has also served in a variety of engineering and management positions in onshore US and the deepwater Gulf of Mexico. Andy Hopwood Executive vice-president, chief operating officer, strategy and regions, Upstream Executive team tenure Appointed 1 November 2010 Outside interests No external appointments Age 60 Nationality British Career Andy Hopwood is responsible for BP's upstream strategy, portfolio and leadership of its global regional presidents. Andy joined BP in 1980, spending his first 10 years in operations in the North Sea, Wytch Farm and Indonesia. In 1989 Andy joined the corporate planning team formulating BP's upstream strategy and subsequent portfolio rationalization. Andy held commercial leadership positions in Mexico and Venezuela before becoming the Upstream's planning manager. Following the BP-Amoco merger, Andy spent time leading BP's businesses in Azerbaijan, Trinidad & Tobago and onshore North America. In 2009 he joined the Upstream executive team as head of portfolio and technology and in 2010 was appointed executive vice president, exploration and production. Bernard Looney Chief executive, Upstream Executive team tenure Appointed 1 November 2010 Outside interests • Fellow of the Royal Academy of Engineering • Member of the Stanford University Graduate School of Business Advisory Council • Fellow of the Energy Institute Age 47 Nationality Irish Career Bernard Looney is responsible for the Upstream segment which consists of exploration, development and production. Bernard joined BP in 1991 as a drilling engineer, working in the North Sea, Vietnam and the Gulf of Mexico. In 2005 he became senior vice president for BP Alaska before becoming head of the group chief executive's office in 2007. In 2009 he became the managing director of BP's North Sea business in the UK and Norway. At the same time, Bernard became a member of the Oil & Gas UK Board. He became executive vice president, developments, in October 2010, and in February 2013 became chief operating officer, production, serving in the role until April 2016. Executive team As at 29 March 2018

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Corporate governance **C**orporate governance BP Annual Report and Form 20-F 2017 67 Lamar McKay Deputy group chief executive

Executive team tenure Appointed 16 June 2008 **Outside interests** No external appointments **Age** 59 **Nationality** American **Career** Lamar McKay is accountable for group strategy and long-term planning, safety and operational risk and group technology. In addition to supporting the group chief executive, he also focuses on various corporate governance activities including ethics and compliance. Lamar started his career in 1980 with Amoco and held a range of technical and leadership roles. During 1998 to 2000, he worked on the BP-Amoco merger and served as head of strategy and planning for the exploration and production business. In 2000 he became business unit leader for the central North Sea. In 2001 he became chief of staff for exploration and production, and subsequently for BP's deputy group chief executive. Lamar became group vice president, Russia and Kazakhstan in 2003. He served as a member of the board of directors of TNK-BP between February 2004 and May 2007. In 2007 he was appointed executive vice president, BP America. In 2008 he became executive vice president, special projects where he led BP's efforts to restructure the governance framework for TNK-BP. In 2009 Lamar was appointed chairman and president of BP America, serving as BP's chief representative in the US. In January 2013, he became chief executive, Upstream, responsible for exploration, development and production, serving in the role until April 2016. Eric Nitcher **Group general counsel** **Executive team tenure** Appointed 1 January 2017 **Outside interests** No external appointments **Age** 55 **Nationality** American **Career** Eric Nitcher is responsible for legal matters across the BP group. Eric began his career in the late 1980s working as a litigation and regulatory lawyer in Wichita, Kansas. He joined Amoco in 1990 and over the years has held a wide variety of roles, both within and outside the US. In 2000, Eric moved to London to work in the mergers and acquisitions legal team where he played a key role in the formation of the Russian joint venture TNK-BP. Eric returned to Houston in 2007 where he served as special counsel and chief of staff to BP America's chairman and president. Most recently he played a leading role in the settlement of the Deepwater Horizon government claims and resolution of most of the remaining private claims being litigated in New Orleans. Dev Sanyal **Chief executive, alternative energy and executive vice president, regions** **Executive team tenure** Appointed 1 January 2012 **Outside interests** • Independent non-executive director of Man Group plc • Member of the Accenture Global Energy Board • Member, International Advisory Board of the Ministry of Petroleum and Natural Gas, Government of India • Member of the Board of Advisors of the Fletcher School of Law and Diplomacy, Tufts University **Age** 52 **Nationality** British and Indian **Career** Dev Sanyal is responsible for alternative energy and for the Europe and Asia regions and functionally for risk management, government and political affairs, economics and policy. Dev joined BP in 1989 and has held a variety of international roles in London, Athens, Istanbul, Vienna and Dubai. He was general manager, Former Soviet Union and Eastern Europe, prior to being appointed chief executive, BP Eastern Mediterranean Fuels in 1999. In November 2003 he was appointed chief executive officer of Air BP International and in June 2006 was appointed head of the group chief executive's office. He was appointed group vice president and group treasurer in 2007. During this period, he was also chairman of BP Investment Management Ltd and was accountable for the group's aluminium interests. Until April 2016, Dev was executive vice president, strategy and regions. Helmut Schuster **Executive vice president, group human resources** **Executive team tenure** Appointed 1 March 2011 **Outside interests** • Non-executive director of Ivoclar Vivadent AG, Germany **Age** 57 **Nationality** Austrian **Career** Helmut Schuster became group human resources (HR) director in March 2011. In this role he is accountable for the BP human resources function. He completed his post graduate diploma in international relations and his PhD in economics at the University of Vienna and then began his career working for Henkel in a marketing capacity. Since joining BP in 1989 Helmut has held a number of leadership roles. He has worked in BP in the US, UK and continental Europe and within most parts of refining, marketing, trading and gas and power. Before taking on his current role, his portfolio of responsibilities as vice president, HR included the refining and marketing segment of BP and corporate and functions. That role saw him leading the people agenda for roughly 60,000 people across the globe that included businesses such as petrochemicals, fuels value chains, lubricants and functional experts across the group. Outside of his role, Helmut is a non-executive director of Ivoclar Vivadent. Additionally, he is an alumni and advocate of AFS, an international exchange organization. The executive team represents the principal executive leadership of the BP group. Its members include BP's executive directors (Bob Dudley and Dr Brian Gilvary whose biographies appear on pages 61-65) and the senior management listed on these pages. The ages of the executive team are correct as at 29 March 2018.

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BP Annual Report and Form 20-F 201768 Upstream Other business and functions leaders 1. David Eyton Group head of technology 2. Dominic Emery Vice president, group strategic planning 3. Laura Folse Chief executive officer, wind, alternative energy 4. Richard Hookway Chief operating officer of global business services and information technology and systems 5. David Jardine Group head of audit 6. Robert Lawson Global head of mergers and acquisitions 7. Dev Sanyal Chief executive, alternative energy and executive vice president, regions 8. Joan Wales Head of safety and operational risk, alternative energy 9. Craig Marshall Group head of investor relations 10. Spencer Dale Group chief economist 11. Geoff Morrell Group head of communications and external affairs Q2. Lucy Knight Human resources vice president, corporate business activities and functions 13. Trudi Charles Associate general counsel, integrated supply and trading 1. Andy Hopwood Chief operating officer, strategy and regions 2. James Dupree Chief operating officer, developments and technology 3. Kerry Dryburgh Head of human resources 4. Tony Brock Head of safety and operational risk 5. Bernard Looney Chief executive 6. Murray Auchincloss Chief financial officer W. Nigel Jones Associate general counsel 8. Gordon Birrell Chief operating officer, production, transformation and carbon Q 2 1

2 4 5 6 8 3 3 7 5 7 9 10 12 4 6 8 11 13 Executive management teams

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Corporate governance Corporate governance BP Annual Report and Form 20-F 2017 69 Downstream 1. Rita Griffin Chief operating officer, petrochemicals 2. Mike O'Sullivan Chief financial officer 3. Michael Sosso Associate general counsel, downstream and BP shipping 4. Doug Sparkman Chief operating officer, fuels, North America 5. Angela Strank Head of technology and BP chief scientist 6. Tufan Erginbilgic Chief executive 7. Mandhir Singh Chief operating officer, lubricants 8. Evelyn Gardiner Head of human resources 9. Guy Moeyens Chief operating officer, fuels, Europe and Southern Africa 10. Andy Holmes Chief operating officer, fuels ASPAC and Air BP Q4. David Anderson Chief financial officer, alternative energy 15. Ashok Pillai Vice president, group reward Q6. Kate Thomson Group treasurer 17. Rahul Saxena Group ethics and compliance officer 18. Mario Lindenhayn Chief executive officer, biofuels, alternative energy 19. Susan Dio Chief executive officer, shipping 20. Jan Lyons Group head of tax 21. Alan Haywood Chief executive officer, integrated supply and trading 22. William Lin Head of group chief executive's office 23. Carol Howle Head of group chief executive's office 24. Camille Drummond Head of global business services 25. David Bucknall Group controller and chief financial officer, other businesses and corporate 26. Nick Wayth Chief development officer, alternative energy Q 3 4 6 7 9 8 10 2 5 14 15 17 19 20 23 21 26 16 18 22 24 25 Our diverse and talented leaders have a wide range of skills and disciplines that support our executive team's work. These include experts in fields such as renewable energy, finance, trading, technology and digital, and tax and treasury. Job titles correct as at 1 January 2018.

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Introduction from the chairman The work of the board continued to progress in 2017. We focused on the development and implementation of our strategy out to 2021 that we communicated to investors last year. We have seen substantial variations in the oil price and have had to ensure that BP is robust for all financial cycles. We believe there will be a continuing demand for hydrocarbons over the coming decades. Our strategy is designed to balance our role in supplying energy for the world with the growing need to be part of the transition to a lower carbon global economy. The board's focus has been on this dual challenge, which is crucial to the company's long-term sustainability. The role of business in society remains a major issue which all boards must address. In the UK, the Financial Reporting Council has published its consultation on a material revision to the UK Corporate Governance Code. There is a clear emphasis on the need for boards to focus on their relationship with all those with whom the company comes into contact. In particular, boards are encouraged to ensure they find ways to hear the voice of the employee in the board room. We are participating in this consultation and have already established a variety of ways to speak and listen to our employees around the world. We will need to ensure that all voices – those of shareholders, employees, customers and communities – find their way to the board. Our long-term investments and relationships in many countries have already helped with this. Remuneration continued to be an area of focus in the year. We are grateful to our shareholders for their support of the remuneration report at the 2017 AGM. This was very important to us. The remuneration committee continued its work this year, as it implements the new policy and some legacy awards from the 2014 policy. The committee has again had some challenging decisions to take. Dame Ann Dowling will be standing down from the committee at the 2018 AGM after three years in the chair. I would like to thank her and pay tribute to her work. Paula Reynolds, already an experienced remuneration committee chair, will succeed Dame Ann. I will be standing down as chairman at an appropriate time after the 2018 AGM. Ian Davis, the senior independent director, has already begun the search for my successor. I will have served as chairman for almost nine years by the time I stand down. The board has faced and risen to many challenges during that time and membership has evolved and remained balanced. I believe that we are well placed for the future – with the appropriate mix of skills, experience and diversity. Throughout I have wanted to ensure that we used our time wisely as it was essential that we had the space in our meetings to discuss strategy and the direction of the company. In 2010 we formed the Gulf of Mexico committee, originally to have oversight of our commitment on the ground following the accident. The work of this committee evolved into considering the reports on the causes of the accident and subsequently leading the work around the ensuing litigation. The committee sat for five years. We also formed a special committee to oversee negotiations in Russia which eventually led to our equity ownership in Rosneft. This experience led to the formation of the geopolitical committee which is now well in its stride. We have used the evaluations of the board and the committees to ensure that we have been focusing on the right issues and adding value. I am pleased that over the summer we will be carrying out an externally facilitated evaluation, which I am sure will assist my successor. I am very grateful to Bob, his executive colleagues and all my fellow directors for all the work that they have done during the year. BP has an exciting future and we have the right team to take advantage of the opportunities that it will bring. Carl-Henric Svanberg Chairman

The board has a clear focus on the issues that are crucial to the long-term sustainability of the company. BP Annual Report and Form 20-F
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Board and committee attendance in 2017 BP board Owners/shareholders Group chief executive Nomination committee See page 89 D
 eleg atio n Remuneration committee See page 86 Chairman's committee See page 88 SEEAC See page 84 Geopolitical
 committee See page 87 Strategy/group risks/annual plan Group chief executive's delegations Audit committee See page 77 Monitoring,
 information and assurance BP board governance principles: • Group audit • Finance • Safety and operational risk • Group ethics and
 compliance • Business integrity • External market and reputation research • Independent auditor • Independent adviser • Independent
 advice (if requested) • BP goal • Governance process • Delegation model • Executive limitations Delegation Delegation of
 authority through policy with monitoring Accountability Assurance through monitoring and reporting A c c o u n t a b
 ili ty Resource commitments meeting (RCM) Group people committee (GPC) Group disclosure committee (GDC) Executive
 management Group financial risk committee (GFRC) Group operations risk committee (GORC) Group ethics and compliance
 committee (GECC) Board Audit committee SEEAC Joint audit/ SEEAC Remuneration committee Geopolitical committee
 Nomination committee Chairman's committee Non-executive directors A B A B A B A B A B A B A B A B Carl-Henric Svanberg+ 11 11 Nils
 Andersen 11 11 13 13 4 4 7 7 Paul Anderson 11 11 6 6 4 4 3 3 10 10 Alan Boeckmann+ 11 10 6 6 4 4 8 7 3 3 10 10 Frank Bowman 11 11 6 6 4 4 3 3 10
 10 Cynthia Carroll 5 5 2 1 1 1 1 0 3 2 Ian Davis 11 11 8 8 3 3 3 3 10 10 Ann Dowling+ 11 11 6 6 4 4 8 8 3 3 10 10 Melody Meyer 6 6 4 4 3 3 2 2 7
 7 Brendan Nelson+ 11 11 13 13 4 4 4 4 10 10 Paula Rosput Reynolds 11 10 13 13 4 3 2 2 10 9 John Sawers+ 11 11 6 6 4 4 3 3 3 3 10 10 Andrew
 Shilston 5 4 5 5 1 1 4 4 1 1 1 1 3 3 Executive directors A B Bob Dudley 11 11 Brian Gilvary 11 11 A = Total number of meetings the director was
 eligible to attend. B = Total number of meetings the director did attend. + Committee chair. Nils Andersen did not attend meetings of the chairman's
 committee when succession was discussed. Alan Boeckmann missed the telephone meetings of the board and remuneration committee that had been
 called at short notice, due to a clash with another board. Paula Reynolds missed a board, joint audit-SEEAC and chairman's committee meeting due to travel
 arrangements. Cynthia Carroll missed a SEEAC, geopolitical committee and chairman's committee meeting due to a clash with an external commitment.
 Andrew Shilston missed a board meeting immediately prior to the 2017 AGM as he was retiring from the board. BP governance framework The board
 operates within a system of governance that is set out in the BP board governance principles. These principles define the role of the board, its processes and
 its relationship with executive management. This system is reflected in the governance of the group's subsidiaries. See bp.com/governance for the board
 governance principles. C orporate governance BP Annual Report and Form 20-F 2017 71

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Board activity in 2017

1 Role of the board The board is responsible for the overall conduct of the group's business. Directors have duties under both UK company law and BP's Articles of Association. The primary tasks of the board include: Active consideration and direction of long-term strategy and approval of the annual plan Monitoring of BP's performance against the strategy and plan Ensuring that the principal risks and uncertainties to BP are identified and that systems of risk management and control are in place Board and executive management succession Performance and monitoring The board reviews financial and operational performance at each meeting. It receives regular updates on the group's performance for the year across a range of metrics as well as the latest view on expected full-year delivery against external scorecard measures. Updates are also given on various components of value delivery for BP's business. Regular reports presented to the board include: • Chief executive's report. • Group performance report. • Group financial outlook. • Effectiveness of investment review. • Quarterly and full-year results. • Shareholder distributions. The board reviews the quarterly and full-year results, including the shareholder distribution policy. The 2017 annual report was assessed in terms of the directors' obligations and appropriate regulatory requirements. The board monitors employee opinion via an annual 'pulse' survey which includes measurement of how the BP values are incorporated into culture around our global operations. Strategy During the year the board provided input on the group's strategy to senior management. This included a two-day strategy session in September where it examined developments in the wider environment and debated strategic themes relating to BP's segments, key functions and the impact of the lower carbon transition on the group's business model. The board discussed the transition to a lower carbon world frequently during the year. It received regular reports on the progress and implementation of the strategy – through updates from management and by means of a strategic performance scorecard which is discussed at each full board meeting. The board monitored the company's performance against the annual plan for 2017 and approved the forward framework for the annual plan in 2018. The board reviewed the BP Energy Outlook, updated in February 2018, which looks at long-term energy trends and projections for world energy markets. Risk The board, either directly or through its monitoring committees, regularly reviews the processes whereby risks are identified, evaluated and managed. Activities include: • Assessing the effectiveness of the group's system of internal control and risk management as part of the review of the BP Annual Report and Form R0-F 2017. • Identification and allocation of risks to the board and monitoring committees (the audit, SEEA and geopolitical committees) for 2017, and confirmation of the schedule for oversight. The board reviewed the group risk of cyber security in 2017 – with the audit committee and SEEAC assessing elements of cyber security risk in their work programme for the year. The allocation of the group cyber security risk to the board (with additional monitoring by the audit and SEEA committees) remains unchanged for 2018. The group risks allocated to the committees for review over the year are outlined in the reports of the committees on pages W7-89. Further information on BP's system of risk management is outlined in How we manage risk on page 55. Succession The board, in conjunction with the nomination and chairman's committees, reviews succession plans for executive and non-executive directors on a regular basis. The board needs to ensure that potential candidates are identified and evaluated as current directors reach the end of their recommended term of office, including in the event of a director leaving unexpectedly. The board employs executive search firms when it concludes that this is an effective way of finding suitable candidates. In R017 we appointed Egon Zehnder to assist in the search for non-executive directors. • Cynthia Carroll and Andrew Shilston stood down from the board at the 2017 AGM. • Melody Meyer was elected as a director at the 2017 AGM. On appointment she joined the SEEA and geopolitical committees. • Brendan Nelson and Paula Reynolds joined the remuneration committee in May and September 2017 respectively. • Paul Anderson will retire from the board at the 2018 AGM. • Ann Dowling will step down from the remuneration committee after the R018 AGM, having served three years as chair, and Paula Reynolds will then assume the role. BP Annual Report and Form 20-F 201772

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Skills and expertise In order to carry out its duties on behalf of shareholders, the board needs to manage its non-executive membership and continuously maintain its knowledge and expertise to benefit the business. It does this through four activity sets: Succession planning to ensure future diversity and balance Diversity including skills, experience, gender, ethnicity and tenure Evaluation Training including site visits and induction of new directors Diversity BP recognizes the importance of diversity, including gender, at the board and all levels of the group. We are committed to increasing diversity across our operations and have a wide range of activities to support the development and promotion of talented individuals, regardless of gender and ethnic background. The board operates a policy that aims to promote diversity in its composition. Under this policy, director appointments are evaluated against the existing balance of skills, knowledge and experience on the board, with directors asked to be mindful of diversity, inclusiveness and meritocracy considerations when examining nominations to the board. Implementation of this policy is monitored through agreed metrics. During its annual evaluation, the board considered diversity as part of the review of its performance and effectiveness. At the end of 2017, there were three female directors (2016 3, 2015 3) on our board of 13. Our nomination committee actively considers diversity in seeking potential candidates for appointment to the board. The board looked at gender and wider diversity across the group as part of its annual review of HR, capability and talent management. The remuneration committee and the board reviewed and discussed BP's data and report on the UK gender pay gap prior to its publication in February 2018. Focus was given to the data in the report, and what action BP is taking to address the gap and the broader issue of diversity within the group.

Independence Non-executive directors (NEDs) are expected to be independent in character and judgement and free from any business or other relationship that could materially interfere with exercising that judgement. It is the board's view that all NEDs, with the exception of the chairman, are independent. The board is satisfied that there is no compromise to the independence of, and nothing to give rise to conflicts of interest for, those directors who serve together as directors on the boards of other entities or who hold other external appointments. The nomination committee keeps the other interests of the NEDs under review to ensure that the effectiveness of the board is not compromised. Appointment and time commitment The chairman and NEDs have letters of appointment. There is no term limit on a director's service, as BP proposes all directors for annual re-election by shareholders (a practice followed since 2004). While the chairman's letter of appointment sets out the time commitment expected of him, those for NEDs do not set a fixed-time commitment, but instead set a general guide of between 30-40 days per year. The time required of directors may fluctuate depending on demands of BP business and other events. They are expected to allocate sufficient time to BP to perform their duties effectively and make themselves available for all regular and ad hoc meetings. Background and diversity Non-executive director Background Diversity Oil & gas/ extractives/ energy Engineering/ technology Financial expertise Safety Brand/ marketing/ reputation Regulatory/ government affairs

| | | | | | | | | |
|------------|----------------|------------------|------------------|-----------------|------------------------|---|-------------|-------------|
| Female Non | UK/US | Tenure (years) | Nils Andersen 2 | Paul Anderson 8 | Alan Boeckmann 4 | Frank Bowman 7 | Ian Davis 8 | Ann Dowling |
| 6 | Melody Meyer 1 | Brendan Nelson 7 | Paula Reynolds 3 | John Sawers 3 | Carl-Henric Svanberg 9 | Corporate governance BP Annual Report and Form 20-F 2017 73 | | |

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Executive directors are permitted to take up one external board appointment, subject to the agreement of the chairman. Fees received for an external appointment may be retained by the executive director and are reported in the directors' remuneration report (see page 90). Neither the chairman nor the senior independent director are employed as an executive of the group. Training and induction To help develop an understanding of BP's business, the board continues to build its knowledge through briefings and site visits. In 2017 the board received training on ethics and compliance. NEDs are expected to visit at least one business a year as part of their learning programme. In 2017 the board visited the group's response information centre in Sunbury, operations of Aker in Norway and the trading business in London. Members of the SEEAC and other directors also visited the Cherry Point refinery in the US and the Glen Lyon FPSO vessel in the North Sea. Newly appointed NEDs follow a structured induction process. This includes one-to-one meetings with management and the external auditors and also covers the board committees that they join. Board evaluation BP undertakes an annual review of the board, its committees and individual directors. The chairman's performance is evaluated by the chairman's committee and his evaluation is led by the senior independent director. The evaluation operates on a three-year cycle, with one externally led evaluation followed by two subsequent years of internal evaluations carried out using a questionnaire prepared by an external facilitator. Activity following prior year evaluation Actions arising from the 2016 evaluation and how these were addressed included:

- Focus on implementing the strategy, in particular the opportunities relating to the transition to a lower carbon economy: reporting on the implementation of the strategy was further developed and as a result the board receives updates from management and a strategic progress report at each meeting. The board held a number of discussions on the transition to a lower carbon economy, including a session at the strategy away day, with further sessions scheduled for R018. The group's quarterly results announcement was amended in R017 to include narrative on the implementation of strategy.
- More detailed examination of the financial performance of the business, in particular capital allocation and returns: the board discusses financial performance at each board meeting and reviews the proposed disclosures and investor presentation for each quarter's results. A return on average capital employed measure was included in the 2017 remuneration policy and the board reviews this as part of its performance monitoring. A review of the group's capital allocation process and investment effectiveness was also held during the year.
- Obtaining a better understanding of the group's ability to effectively deliver the strategy, including technology, digital and big data: this included a deep dive into technology trends and their potential impact on the group's business model.
- Bringing wider perspectives into the board room and gaining deeper insight into shareholder views: the board considered output from BP's remuneration engagement programme as well as broader governance issues from investor meetings held throughout the year. Feedback from institutional investors on the group's performance and strategy – compiled by an independent third party – was discussed with the board following the strategy update.
- Continued emphasis on improving operational excellence: the board received data and commentary on BP's operations through monthly reports and updates from management; and operational measures were included in the annual bonus scorecard as part of the remuneration assessment for the year. 2017 evaluation The evaluation was undertaken through a questionnaire facilitated by an external consultant (Lintstock) and individual interviews between the chairman and each director. The results of the evaluation and feedback from the interviews were collectively discussed by the board including:

- Investment decisions: continue focusing on capital allocation and the way in which investment decisions are taken.
- Longer-term vision and strategy: extend the timeframe of strategic discussions, including challenges faced by BP's core business and the lower carbon transition.
- Geopolitics: consider how to further optimize the output of the work undertaken by the board, geopolitical committee and the international advisory board.
- Improve the board's understanding of employees' views: expand the existing ways employee views are disseminated to the board to include more local and business based feedback.

Director induction programme Melody Meyer, appointed in 2017, followed a tailored induction process, which also covered the SEEAC and geopolitical committee. The programme of topics included:

- Board and governance
- BP's board governance model, directors' duties, interests and potential conflicts.
- Business introduction
- BP's business
- Upstream (exploration, development, production, overview of our operations)
- Downstream (refining, marketing and lubricants)
- Alternative Energy
- Strategy and planning
- Lower carbon transition
- BP's performance relative to its competitors.
- Functional input
- Human resources, including capability and reward
- Ethics and compliance
- Research and technology
- Investor relations
- Trading
- Communications and corporate reporting
- Group audit
- External audit
- BP women's network
- Legal. SEEAC specific
- Safety and operational risk (S&OR), BP's operating management system (OMS) and environmental performance
- Operational, safety and environmental reporting
- Group security and crisis management.
- Geopolitical committee specific
- BP's regional businesses
- Government affairs.

BP executives devoted substantial time to ensure a high quality induction. Melody Meyer Non-executive director See Glossary BP Annual Report and Form 20-F 201774

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Site visits Washington state, US Members of the SEEAC and other directors visited the Cherry Point refinery in Blaine, Washington in June. The visit focused on operating procedures and safety and risk mitigation. Investment was discussed, including technology enhancements to produce ultra-low sulphur diesel, increasing logistical optionality and a coker heater project. Other discussions included the cultural and environmental outreach projects in the area. They also took a tour of the refinery, control room, the operator training simulator and dock area. Global business services, Hungary The audit committee visited BP's global business service (GBS) centre located in Budapest in September, where standardized business services including finance, procurement, HR, trading settlement and tax are delivered for businesses across the BP group. The committee received presentations on the GBS strategy, business model and controls framework. They also met local staff across a range of job levels, including those involved in diversity and inclusion initiatives such as LGBT and working parent programmes. Integrated supply and trading, London Members of the board visited BP's trading operations in London in December to gain an insight into the group's approach to trading, oil and gas market fundamentals, risk profile and strategy. Directors received presentations from traders and originators on the trading floor and deepened their understanding of the group's oil products and LNG business models. North Sea, UK In July members of the SEEAC and other directors visited Glen Lyon – the floating, production, storage and offloading vessel for our Quad 204 major project start-up in the North Sea. The committee was the first to visit the vessel following production start-up. Discussions on board the vessel covered project completion and future plans including reviews of production efficiency, operational management, safety, risk mitigation and OMS conformance. They also visited key areas of the vessel including the control room and riser tower. Tranby, Norway The board visited Aker's Tranby technology centre near Oslo to see the manufacture of subsea well heads and the research and development centre. The Tranby site has been an established centre of excellence for subsea equipment manufacturing for over a decade. The board heard about the research being undertaken in subsea trees, workover systems and subsea pumps and saw new digital technologies to integrate engineering and manufacturing processes being tested. Non-executive directors are expected to visit at least one business per year, as part of their learning programme. In 2017 the board visited partner operations in Tranby, Norway and BP's trading business in London. Members of the SEEAC and other directors visited operations in the North Sea and Washington state, and the audit committee visited our global business services offices in Hungary. The board met local management at each visit, and after each one, the board or appropriate committee was briefed on the impressions gained by the directors during the visit. C orporate governance BP Annual Report and Form 20-F 2017 75

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Shareholder engagement Institutional investors The company operates an active investor relations programme. The board receives feedback on shareholder views through results of an anonymous investor audit and reports from management and those directors who meet with shareholders each year. In 2017 the chair of the remuneration committee undertook extensive engagement on the new remuneration policy prior to the AGM in May (see the remuneration committee report on page 86). The chair of the audit committee and the senior independent director also held one-to-one meetings with institutional investors during the year. Senior management regularly meets with institutional investors through roadshows, group and one-to-one meetings, events for socially responsible investors (SRIs) and oil and gas sector conferences throughout the year. In April the chairman and all board committee chairs held an annual investor event. This meeting enabled BP's largest shareholders to hear about the work of the board and its committees and for NEDs to engage with investors. See bp.com/investors for investor and strategy presentations, including the group's financial results and information on the work of the board and its committees. Private investors BP held a further event for private investors in conjunction with the UK Shareholders' Association (UKSA) in 2017. The chairman and head of investor relations gave presentations on BP's annual results, strategy and the work of the board. Shareholders' questions were focused on BP's activities and performance. AGM Voting levels decreased in 2017 to 50.8% (of issued share capital, including votes cast as withheld), compared to 64.3% in 2016 and 52.3% in 2015. We believe this drop in vote levels was due to the late return of BP stock on loan, with voting deadlines for some custodians coinciding with the date that BP shares went 'ex-dividend'. The company is looking at future AGM voting deadlines against its financial calendar to mitigate this event recurring. All resolutions were passed at the meeting. Each year the board receives a report after the AGM giving a breakdown of the votes and investor feedback on their voting decisions to inform them on any issues arising. UK Corporate Governance Code compliance BP complied throughout 2017 with the provisions of the UK Corporate Governance Code except in the following aspects: B.3.2 Letters of appointment do not set out fixed-time commitments since the schedule of board and committee meetings is subject to change according to the demands of business and other events. Our letters of appointment set a general guide of a time commitment of between 30-40 days per year. All directors are expected to demonstrate their commitment to the work of the board on an ongoing basis. This is reviewed by the nomination committee in recommending candidates for annual re-election. D.2.2 The remuneration of the chairman is not set by the remuneration committee. Instead, the chairman's remuneration is reviewed by the remuneration committee which makes a recommendation to the board as a whole for final approval, within the limits set by shareholders. This wider process enables all board members to discuss and approve the chairman's remuneration, rather than solely the members of the remuneration committee.

International advisory board BP's international advisory board (IAB) advises the chairman, group chief executive and the board on geopolitical and strategic issues relating to the company. This group meets once or twice a year and between meetings IAB members remain available to provide advice and counsel when needed. The IAB was chaired by BP's previous chairman, the late Peter Sutherland. Its membership in 2017 comprised Lord Patten of Barnes, Josh Bolten, President Romano Prodi, Dr Ernesto Zedillo and Dr Javier Solana. The chairman, chief executive and Sir John Sawers attend meetings of the IAB. Issues discussed in 2017 included the global economy, developments in the Middle East, political events in Latin America and the political and economic outlook in the US. The IAB discussed the UK's potential exit from the European Union at both of its meetings during 2017.

Shareholder engagement cycle 2017 Q1 • Fourth quarter results • BP Energy Outlook presentation • Strategy investor roadshows with executive management • US SRI meetings on remuneration • Investor meetings on remuneration, continuing into Q2 • SRI roadshow following the launch of the BP Sustainability Report 2016, continuing into Q2 Q2 • Chairman and board committee chairs meetings • UKSA private shareholders' meeting • First quarter results • Meetings with members of the Church Investors Group and Charities Responsible Network • Institutional Investors Group on Climate Change (IIGCC) meeting • Annual general meeting • BP Statistical Review of World Energy launch • Downstream investor day, Pangbourne Q3 • Second quarter results • Investor roadshows with the group chief executive and chief financial officer Q4 • Third quarter results • IIGCC meeting BP Annual Report and Form 20-F 201776

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Committee reports Chairman's introduction Last year's report highlighted our monitoring of the group's financial performance in light of the demanding external environment. While this focus remains, the committee has continued to review the integrity of the group's financial reporting by challenging and debating the judgements made by management, including the estimates which are made. We receive reports from management and the external auditor each quarter highlighting significant accounting issues and judgements and have used these to inform our debate on whether BP's financial reporting is 'fair, balanced and understandable'. In 2017 the committee focused on the effectiveness of the group audit function. We reviewed its longer-term vision and capability and oversaw an externally facilitated review of its performance, the results of which we discussed in a joint session with colleagues from the SEEAC. We will continue to focus on the actions arising from the review in 2018. Following the 2016 tender process for the statutory audit, the committee has overseen the transition to Deloitte from EY in time for R018. We met with both EY and Deloitte during 2017 and monitored Deloitte's progress towards independence in time for their 'shadowing' of the 2017 year-end audit. The committee visited one of the group's global business service centres, located in Budapest, enabling us to see first hand the work undertaken by this growing part of BP's operations and to meet local staff. We found this direct contact added an important additional dimension to our review and understanding, and intend to hold further site visits in 2018. Andrew Shilston retired from the committee in May 2017. I would like to thank Andrew for his service to the committee, and for the challenge and perspective he provided as a member. Brendan Nelson Committee chair The committee continued to review the integrity of the group's disclosures by challenging and debating the judgements made by management. Audit committee Role of the committee The committee monitors the effectiveness of the group's financial reporting, systems of internal control and risk management and the integrity of the group's external and internal audit processes. Key responsibilities

- Monitoring and obtaining assurance that the management or mitigation of financial risks is appropriately addressed by the group chief executive and that the system of internal control is designed and implemented effectively in support of the limits imposed by the board ('executive limitations'), as set out in the BP board governance principles.
- Reviewing financial statements and other financial disclosures and monitoring compliance with relevant legal and listing requirements.
- Reviewing the effectiveness of the group audit function, BP's internal financial controls and systems of internal control and risk management.
- Overseeing the appointment, remuneration, independence and performance of the external auditor and the integrity of the audit process as a whole, including the engagement of the external auditor to supply non-audit services to BP.
- Reviewing the systems in place to enable those who work for BP to raise concerns about possible improprieties in financial reporting or other issues and for those matters to be investigated.

Members Brendan Nelson Member since November 2010 and chair since April 2011 Nils Andersen Member since October 2016 Paula Reynolds Member since May 2015 Andrew Shilston Member since February 2012; retired May 2017 Brendan Nelson is chair of the audit committee. He was formerly vice chairman of KPMG and president of the Institute of Chartered Accountants of Scotland. Currently he is chairman of the group audit committee of The Royal Bank of Scotland Group plc and a member of the Financial Reporting Review Panel. The board is satisfied that he is the audit committee member with recent and relevant financial experience as outlined in the UK Corporate Governance Code and competence in accounting and auditing as required by the FCA's Corporate Governance Rules in DTR7. It considers that the committee as a whole has an appropriate and experienced blend of commercial, financial and audit expertise to assess the issues it is required to address, as well as competence in the oil and gas sector. The board also determined that the audit committee meets the independence criteria provisions of Rule 10A-3 of the US Securities Exchange Act of 1934 and that Brendan may be regarded as an audit committee financial expert as defined in Item 16A of Form 20-F. Meetings and attendance There were 13 committee meetings in 2017, of which six were by teleconference. All directors attended every meeting during the period in which they were committee members. Regular attendees at the meetings include the chief financial officer, group controller, chief accounting officer, group head of audit and external auditor. C orporate governance BP Annual Report and Form 20-F 2017 77

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Activities during the year Financial disclosure The committee reviewed the quarterly, half-year and annual financial statements with management, focusing on the: • Integrity of the group's financial reporting process. • Clarity of disclosure. • Compliance with relevant legal and financial reporting standards. • Application of accounting policies and judgements. As part of its review, the committee received quarterly updates from management and the external auditor in relation to accounting judgements and estimates including those relating to the Gulf of Mexico oil spill, recoverability of asset carrying values and other matters. The committee keeps under review the frequency of reporting during the year. The committee reviewed the assessment and reporting of longer-term viability, risk management and the system of internal control, including the reporting and categorization of risk across the group and the examination of what might constitute a significant failing or weakness in the system of internal control. It also examined the group's modelling for stress testing different financial and operational events, and considered whether the period covered by the company's viability statement was appropriate. The committee considered the BP Annual Report and Form 20-F R017 and assessed whether the report was fair, balanced and understandable and provided the information necessary for shareholders to assess the group's position and performance, business model and strategy. In making this assessment, the committee examined disclosures during the year, discussed the requirement with senior management, confirmed that representations to the external auditors had been evidenced and reviewed reports relating to internal controls. The committee made a recommendation to the board, who in turn reviewed the report as a whole, confirmed the assessment and approved the report's publication. Other disclosures reviewed included: • Oil and gas reserves. • Pensions and post-retirement benefits assumptions. • Risk factors. • Legal liabilities. • Tax strategy. • Going concern. Risk reviews The principal risks allocated to the audit committee for monitoring in R017 included those associated with: Trading activities: including risks arising from shortcomings or failures in systems, risk management methodology, internal control processes or employees. In reviewing this risk, the committee focused on external market developments and how BP's trading function had responded – including new areas of activity and impacts on the control environment. The committee further considered updates in the trading function's risk management programme, including compliance with regulatory developments and activities in response to cyber threats. Compliance with applicable laws and regulations: including ethical misconduct or breaches of applicable laws or regulations that could damage BP's reputation, adversely affect operational results and/or shareholder value and potentially affect BP's licence to operate. Other reviews Other reviews undertaken in 2017 by the committee included: • Downstream: including strategy and strategic progress, financial performance, risk management and controls, audit findings, key litigation and ethics and compliance findings. • Upstream: including vision and priorities, structure and portfolio, financial controls and the balance sheet, an overview of intangible assets and a review of the segment's finance organization. • Shipping: including an overview of BP shipping's role and operating model, financial performance, strategy, risk management and controls and the impact of IFRS 16 (lease accounting standard). • Financial Stability Board's Task Force on Climate-related Financial Disclosures (TCFD): the origin, purpose and work of the TCFD along with its key recommendations and how BP's existing reporting compares to these recommendations, see page 50. • Non-operating items (NOIs): BP's policy for identifying and categorizing NOIs and an analysis of those NOIs impacting BP's reported results. • Blockchain: introduction to blockchain technology, its potential impacts on the oil and gas industry and an overview of BP's participation and approach to date. • Capability and succession in BP's finance function, including the group's finance modernization programme. • Assessment of financial metrics for executive remuneration: consideration of financial performance for the group's R017 annual cash bonus scorecard and performance share plan, including adjustments to plan conditions and NOIs. The committee reviewed key areas of BP's ethics and compliance programme, including the integration of the business integrity and ethics and compliance functions, development of the anti-bribery and corruption elements of the programme, enhanced policies, tools and training and strengthening of counterparty risk measures, including due diligence. Security threats against BP's digital infrastructure: including inappropriate access to or misuse of information and systems and disruption of business activity. The committee reviewed changes in the cyber security landscape, including events in the oil and gas industry and within BP itself. The review focused on the improvements made in managing cyber risk, including the application of the three lines of defence model and examining the indicators associated with risk management and barrier performance. Financial resilience: including the risk associated with external market conditions, supply and demand and prices achieved for BP's products which could impact financial performance. The committee reviewed the key price assumptions used by the group for investment appraisal and the judgements underlying those proposals, the cost of capital and its application as a discount rate to evaluate long-term BP business projects, liquidity (including credit rating, hedging, long-term commercial commitments and credit risk) and the effectiveness and efficiency of the capital investment into major projects. BP's principal risks are listed on page 57. For 2018, the board has agreed that the committee will continue to monitor the same four group risks as for 2017. The group risk financial resilience has been renamed 'financial liquidity' for R018. See Glossary BP Annual Report and Form 20-F 201778

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Internal control and risk management The committee received quarterly reports on the findings of group audit in 2017. It reviewed group audit's vision for 2020, including the roadmap for 2017 and beyond. The committee met privately with the group head of audit and key members of his leadership team. The committee oversaw an external review of the effectiveness of the group audit function, which was awarded to Deloitte in July 2017 following a competitive tender process. Fieldwork and interviews with management and board members was completed by September 2017 and the results of the assessment were reviewed at a joint meeting of the audit and safety, ethics and environment assurance committees in December. The review concluded that the group audit function:

- Performed strongly across Deloitte's assessment framework.
- Demonstrated a high level of maturity when assessed against internal audit functions within large FTSE (non-financial services) companies.
- Had a remit covering all risk categories (financial and operational) – a breadth seen as leading practice.
- Had areas where continuous improvement activity and continued dialogue with the business could result in an even stronger performance.

Implementation of the agreed actions arising from the review will be tracked during 2018. The audit committee also held private meetings with the group ethics and compliance officer during the year.

Training The committee held a deep dive on reserves, covering resource definition and estimation, the group's governance processes, areas of focus for the regulator and how BP compared with its competitors in terms of approach. It received technical updates from the chief accounting officer on developments in financial reporting and accounting policy, including IFRS 9 'Financial Instruments', IFRS 15 Revenues from Contracts with Customers and IFRS 16 'Leases'. **Site visits** In September, the committee visited BP's global business services (GBS) centre in Hungary. During the visit the committee reviewed the function's strategy, context, and how it has grown in scope and scale. It looked at its risk management and controls processes, including understanding the risks around transition of activity from the business and the standardization of global processes. It also reviewed capability and human resources issues, including talent attraction and retention, met a range of staff and heard about the various GBS diversity programmes including LGBT, working parents and disability awareness. In December, members of the committee and wider board visited BP's integrated supply and trading (IST) business in London for a day that covered oil and gas market fundamentals, finance and risk, IST's strategy, and presentations on oil products and LNG trading. **Accounting judgements and estimates** Areas of significant judgement considered by the committee in 2017 and how these were addressed included:

Key judgements and estimates in financial reporting

Audit committee activity

Conclusions/Outcomes

Gulf of Mexico oil spill BP uses judgement in relation to the recognition of provisions relating to the Gulf of Mexico oil spill. The timing and amounts of the remaining cash flows are subject to uncertainty and estimation is required to determine the amounts provided for. A review of the provisioning for and disclosure of uncertainties relating to the Gulf of Mexico oil spill was undertaken each quarter as part of the review of the stock exchange announcement. Particular focus was given to updates to the provision related to business economic loss (BEL) and other claims related to the Gulf of Mexico oil spill, including the continuing effect of the Fifth Circuit May 2017 opinion on the matching of revenues with expenses when evaluating BEL claims. Following significantly higher average claims determinations issued by the Court Supervised Settlement Program (CSSP) in the fourth quarter 2017 and the continuing effect arising from the Fifth Circuit May 2017 opinion, BP recognized a post-tax charge of \$1.7 billion for BEL and other claims associated with the CSSP. Disclosure includes information on remaining uncertainties. **Corporate governance** BP Annual Report and Form 20-F 2017 79

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Key judgements and estimates in financial reporting Audit committee activity Conclusions/Outcomes Oil and natural gas accounting, including reserves BP uses technical and commercial judgements when accounting for oil and gas exploration, appraisal and development expenditure and in determining the group's estimated oil and gas reserves. Reserves estimates based on management's assumptions for future commodity prices have a direct impact on the assessment of the recoverability of asset carrying values reported in the financial statements. Judgement is required to determine whether it is appropriate to continue to carry intangible assets related to exploration costs on the balance sheet. Held an in-depth review of BP's policy and guidelines for compliance with oil and gas reserves disclosure regulation, including the group's reserves governance framework and controls. Reviewed exploration write-offs as part of the group's quarterly due diligence process. Received briefings on the status of upstream intangible assets, including the status of items on the intangibles assets 'watch-list'. Received the output of management's annual intangible asset certification process used to ensure accounting criteria to continue to carry the exploration intangible balance are met. Exploration write-offs totalling \$1.6 billion were recognized during the year. Exploration intangibles totalled \$17.0 billion at 31 December 2017. Recoverability of asset carrying values Determination as to whether and how much an asset, cash generating unit (CGU) or group of CGUs containing goodwill is impaired involves management judgement and estimates on uncertain matters such as future commodity pricing, discount rates, production profiles, reserves and the impact of inflation on operating expenses. Judgement is required in assessing the recoverability of overdue receivables, and deciding whether a provision is required. Reviewed the group's oil and gas price assumptions. Reviewed the group's discount rates for impairment testing purposes. Upstream impairment charges, reversals and 'watch-list' items were reviewed as part of the quarterly due diligence process. Reviewed the group's credit risk management and reporting framework, including actual credit losses observed, expected loss delegations and utilization and changes in the credit portfolio quality. The group's long-term price assumptions for Brent oil, and Henry Hub gas were unchanged from 2016. The group's discount rates used for impairment testing were also unchanged. Impairments of \$1.0 billion were recorded in the year, net of impairment reversals. The group had \$1.5 billion of receivables which were not impaired but past due at 31 December 2017. Investment in Rosneft Judgement is required in assessing the level of control or influence over another entity in which the group holds an interest. BP uses the equity method of accounting for its investment in Rosneft and BP's share of Rosneft's oil and natural gas reserves is included in the group's estimated net proved reserves of equity-accounted entities. The equity-accounting treatment of BP's 9.75% interest in Rosneft continues to be dependent on the judgement that BP has significant influence over Rosneft. Reviewed the judgement on whether the group continues to have significant influence over Rosneft. Considered IFRS guidance on evidence of significant influence, including representation on the board and participation in policy-making processes. Received reports from management and the external auditor which assessed the extent of significant influence, including BP's participation in decision making through the continued service on the Rosneft board and key board committees of two BP-nominated directors and work on significant transactions and projects. This assessment considered the appointment of two additional non-BP directors to the Rosneft board but concluded that the assessment of significant influence remained unchanged. BP has retained significant influence over Rosneft throughout 2017 as defined by IFRS. See Glossary BP Annual Report and Form 20-F 201780

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Key judgements and estimates in financial reporting Audit committee activity Conclusions/Outcomes Derivative contracts In some instances, BP estimates the fair value of derivative contracts using internal models due to the absence of quoted market pricing or other observable, market-corroborated data. Judgement may also be required to determine whether contracts to buy or sell commodities meet the definition of a derivative. Received a briefing on the group's trading risks and reviewed the system of risk management and controls in place, including those covering the valuation of derivative instruments, using models where observable market pricing is not available. The committee annually reviews the control process and risks relating to the trading business. BP has assets and liabilities of \$7.1 billion and \$6.6 billion respectively recognized on the balance sheet for derivative contracts at 31 December 2017, mainly relating to the activities of the integrated supply and trading function (IST). BP's use of internal models to value certain of these contracts has been disclosed in Note 28 in the financial statements. Provisions BP's most significant provisions relate to decommissioning, the Gulf of Mexico oil spill (see above), environmental remediation litigation. The group holds provisions for the future decommissioning of oil and natural gas production facilities and pipelines at the end of their economic lives. Most of these decommissioning events are many years in the future and the exact requirements that will have to be met when a removal event occurs are uncertain. Assumptions are made by BP in relation to settlement dates, technology, legal requirements and discount rates. The timing and amounts of future cash flows are subject to significant uncertainty and estimation is required in determining the amounts of provisions to be recognized. Received briefings on decommissioning, environmental, asbestos and litigation provisions, including the requirements, governance and controls for the development and approval of cost estimates and provisions in the financial statements. Reviewed the group's discount rates for calculating provisions. Decommissioning provisions of \$16.1 billion were recognized on the balance sheet at 31 December 2017. The discount rate used by BP to determine the balance sheet obligation at the end of 2017 was a real rate of 0.5% – based on long-dated US government bonds. Pensions and other post-retirement benefits Accounting for pensions and other post-retirement benefits involves making estimates when measuring the group's pension plan surpluses and deficits. These estimates require assumptions to be made about uncertain events, including discount rates, inflation and life expectancy. Reviewed the group's assumptions used to determine the projected benefit obligation at the year end, including the discount rate, rate of inflation, salary growth and mortality levels. The method for determining the group's assumptions remained largely unchanged from 2016. The values of these assumptions and a sensitivity analysis of the impact of possible changes on the benefit expense and obligation are provided in Note 22. At 31 December 2017, surpluses of \$4.2 billion and deficits of \$9.1 billion were recognized on the balance sheet in relation to pensions and other post-retirement benefits. Income taxes Computation of the group's income tax expense and liability, the provisioning for potential tax liabilities and the level of deferred tax asset recognition are underpinned by management judgement and estimation of the amounts which could be payable. Received regular updates on the group's tax exposures and deferred tax asset recognition. Reviewed the judgement exercised on tax provisioning, including any material changes to deferred tax asset recognition. Reviewed the accounting treatment of taxes relating to renewal of the Abu Dhabi onshore concession. Reviewed the estimated impact of tax reforms arising from the US Tax Cuts and Jobs Act. Deferred tax assets amounting to \$4.5 billion were recognized on the balance sheet at 31 December 2017. As a result of changes in the fiscal terms of the Abu Dhabi onshore concession following its renewal, the group's taxes payable relating to the concession are now principally reported as income taxes rather than as production taxes. Changes to the US corporate tax system resulted in a one-off deferred tax charge of \$0.9 billion in the fourth quarter 2017 arising from a revaluation of BP's US deferred tax assets and liabilities. Corporate governance BP Annual Report and Form 20-F 2017 81

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External audit **Audit risk** The external auditor set out its audit strategy for 2017, identifying key risks to be monitored during the year. These included:

- Determining the liabilities, contingent liabilities and disclosures arising from the Gulf of Mexico oil spill.
- Estimating oil and gas reserves and resources which has significant impact on the financial statements, particularly impairment testing and the calculation of depreciation, depletion and amortization.
- Monitoring for unauthorized trading activity in the trading function and its potential impact on revenue. The committee received updates during the year on the audit process, including how the auditor had challenged the group's assumptions on these issues.

Audit fees The audit committee reviews the fee structure, resourcing and terms of engagement for the external auditor annually; in addition it reviews the non-audit services that the auditor provides to the group on a quarterly basis. Fees paid to the external auditor for the year were \$47 million (2016 \$47 million), of which 6% was for non-audit assurance work (see Financial statements – Note 34). The audit committee is satisfied that this level of fee is appropriate in respect of the audit services provided and that an effective audit can be conducted for this fee. Non-audit or non-audit related assurance fees were \$3 million (2016 \$2 million). The \$1 million increase in non-audit fees primarily relates to non-audit related assurance services, offset by a reduction in tax compliance services. Non-audit or non-audit related services consisted of other assurance services. There were no new services contracted for tax compliance and advisory services for 2017.

Audit effectiveness The effectiveness, performance and integrity of the external audit process was evaluated through separate surveys for committee members and those BP personnel impacted by the audit, including chief financial officers, controllers, finance managers and individuals responsible for accounting policy and internal controls over financial reporting. The survey sent to management comprised questions across five main criteria to measure the auditors' performance:

- Robustness of the audit process.
- Independence and objectivity.
- Quality of delivery.
- Quality of people and service.
- Value added advice.

Further questions were included on BP's attitude to the audit and the progress of the audit transition. The 2017 evaluation concluded that the external auditor's performance had remained largely constant in key areas compared with the previous year. Areas with high scores and favourable comments included quality of accounting and auditing judgement, the working relationship with management and the insight brought through EY's audit work. Areas of focus included the need for innovation in the audit and consistency of audit practices in locations further away from the UK and US. A further focus was BP's assessment of its own performance in relation to the audit. Results of the annual assessment were discussed with the external auditor who considered these themes for the 2017 audit service approach. A key area of focus from 2016 related to audit team turnover, particularly for junior members of the teams. Actions taken over the year resulted in an improvement in the related score for continuity and retention of key members of the audit team in 2017. The committee held private meetings with the external auditor during the year and the committee chair met separately with the external auditor and group head of audit before each meeting.

Audit transition Deloitte was appointed for the statutory audit, with effect from 2018 following a tender process in 2016. The committee monitored the transition of BP's statutory auditor from EY to Deloitte, including activity to enable Deloitte to achieve independence by October 2017. This included:

- Receiving reports from the audit transition team, including an overview of operational activities and the termination of non-audit services being provided by Deloitte to BP – which would be prohibited when Deloitte becomes the group's statutory auditor. This included Deloitte stepping down as independent adviser to BP's remuneration committee.
- Requiring management to report to the committee on any services undertaken by the statutory auditor in line with the group's policies relating to non-audit services.
- Requiring confirmation of Deloitte's compliance with BP's independence and ethics and compliance rules.
- Inviting Deloitte to attend meetings of the audit committee, joint audit and SEEA committees and the board from October 2017 as part of its 'shadowing' of the audit of the third and fourth quarters 2017. Deloitte confirmed its independence to the committee in October 2017. EY resigned on 29 March 2018 following completion of the 2017 audit. Deloitte will audit the 2018 financial year subject to shareholder approval at the 2018 AGM.

Changes in Registrant's Certifying Accountant Following a competitive tender process and on the audit committee's recommendation, in November 2016 the board selected Deloitte as BP's independent external auditor for the financial year ending 31 December 2018. This change in external auditor is being made in accordance with UK and EU law requirements – in particular, the UK Corporate Governance Code and the reforms of the audit market by the Competition and Markets Authority and the European Union – which require that companies put their external audit out to tender at least every ten years. EY has served as BP's external auditor since 1909. EY continued to serve as BP's external auditor throughout the financial year ended 31 December 2017. The audit committee supervised the transition period of Deloitte, as new external auditor, to ensure the monitoring of Deloitte's independence and extended the audit committee's policy on non-audit services to Deloitte during the financial year ended 31 December 2017. The board appointed Deloitte as the company's new external auditor with effect from 29 March 2018 to fill the vacancy arising from EY's resignation following completion of their audit of BP's 2017 financial statements. At the 2018 AGM, EY will not stand for re-election and the board will seek shareholder approval for the appointment of Deloitte as the company's external auditor until the conclusion of the next AGM at which the company's accounts are laid before shareholders. In respect of the financial years ended 31 December 2016 and 2017, EY did not issue any report on the consolidated financial statements of the BP group that contained an adverse opinion or a disclaimer of opinion, nor were the auditor's report qualified or modified as to uncertainty, audit scope or accounting principles. There has not been any disagreement as defined in Item 16F(a)(1)(iv) of Form 20-F with EY over any matter of accounting principle or practice, financial statement disclosure, or auditing scope or procedure, which disagreement, if not resolved to EY's satisfaction, would have caused EY to make reference to the subject matter of the disagreement in connection with its BP Annual Report and Form 20-F 2017/82

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auditor's reports, or any reportable event as defined in Item 16F(a)(1)(v) of Form 20-F. BP has provided EY with a copy of the foregoing disclosure and has requested that they furnish BP with a letter addressed to the US Securities and Exchange Commission (SEC) stating whether or not they agree with such disclosure and, if not, stating the respects in which they do not agree. A copy of EY's letter dated 29 March 2018, in which they stated that they agree with such disclosure, is filed as Exhibit 15.6. During the financial years ended 31 December 2016 and 2017 BP did not consult with Deloitte regarding: (i) the application of accounting principles to any specified transaction, either completed or proposed, or the type of audit opinion that might be rendered on the consolidated financial statements of the BP group; or (ii) any matter that was either the subject of a disagreement as defined in Item 16F(a)(1)(iv) of Form 20-F or reportable event as defined in Item 16F(a)(1)(v) of Form 20-F.

Auditor appointment and independence The committee considers the reappointment of the external auditor each year before making a recommendation to the board. The committee assesses the independence of the external auditor on an ongoing basis and the external auditor is required to rotate the lead audit partner every five years and other senior audit staff every seven years. The current lead partner has been in place since the start of 2013. No partners or senior staff associated with the BP audit may transfer to the group.

Non-audit services The audit committee is responsible for BP's policy on non-audit services and the approval of non-audit services. Audit objectivity and independence is safeguarded through the prohibition of non-audit tax services and the limitation of audit-related work which falls within defined categories. BP's policy on non-audit services states that the auditors may not perform non-audit services that are prohibited by the SEC, Public Company Accounting Oversight Board (PCAOB), UK Auditing Practices Board (APB) and the UK Financial Reporting Council (FRC). The audit committee approves the terms of all audit services as well as permitted audit-related and non-audit services in advance. The external auditor is only considered for permitted non-audit services when its expertise and experience of the company is important. For all other services which fall under the 'permitted services' categories, approval above a certain financial amount must be sought on a case-by-case basis. Any proposed service not included in the permitted services categories must be approved in advance either by the audit committee chairman or the audit committee before engagement commences. The audit committee, chief financial officer and group controller monitor overall compliance with BP's policy on audit-related and non-audit services, including whether the necessary pre-approvals have been obtained. The categories of permitted and pre-approved services are outlined in Principal accountants' fees and services on page 276. The committee's policies were updated in 2017 to reflect the revised regulatory guidelines of the FRC, including:

- Adoption of the FRC's prohibited non-audit services list.
- Prohibition of non-audit tax services by the audit firm.
- Reduction of the pre-approval requirements for non-audit services in line with FRC guidance on 'non-trivial' engagements with the audit firm.

Committee evaluation The audit committee undertakes an annual evaluation of its performance and effectiveness. 2017 evaluation For 2017 an internal questionnaire was used to evaluate the work of the committee. The review concluded that it had performed effectively. Areas of focus for 2018 include succession planning for membership of the committee and a further review of capital spending. Actions from the 2016 evaluation Priorities arising from the 2016 evaluation included a review of and visit to one of BP's global business service (GBS) centres, a focus on streamlining committee materials and further scrutiny on risk management when undertaking business or functional reviews. The committee visited GBS in Budapest in 2017, undertaking a review of the organization's activities and strategy. It also focused on improving committee pre-read materials, which received improved evaluation scores for the 2017 review. And an overview of risk management and controls was included in all segment and functional reviews. Corporate governance BP Annual Report and Form 20-F 2017

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Safety, ethics and environment assurance committee (SEEAC) On site visits we look for ourselves and ask questions, and then we engage with management. Chairman's introduction The committee continued its work with executive management to drive safe, ethical and reliable operations. It has reviewed the company's management of the highest priority non-financial group risks and continues to provide constructive challenge to the risk management process. The risks under their remit remained the same as for 2016: marine, wells, pipelines, explosion or release at facilities and major security incidents and cyber security in process control network. The committee receives reports on each of these risks and monitors their management and mitigation. Following publication of the company's Modern Slavery Act (MSA) statement in 2017, the committee reviewed related work practices in BP and will continue to review progress in developing and embedding those practices. In 2017 it also reviewed the BP Sustainability Report 2017 and will review the annual update MSA statement to be published in 2018. The committee made two site visits in the year (see page 75). In June, members of the committee visited the Cherry Point refinery in Washington, and in July members were among the first to visit the newly operating Glen Lyon floating production, storage and offloading vessel in the UK North Sea. Our level of access into the operational side is extensive and gives the committee unique insight. On site visits, we look for ourselves and ask questions, and then we engage with management on what this means for the objectives we set. The committee also continued its schedule of regular meetings with executive management. In May, Cynthia Carroll retired from the board and the committee and in the same month Melody Meyer joined the committee. Melody brings with her valuable insight through many years of industry experience, and within a few weeks of joining, participated in her first committee site visit. Alan Boeckmann Committee chair Role of the committee The role of the SEEAC is to look at the processes adopted by BP's executive management to identify and mitigate significant non-financial risk. This includes monitoring the management of personal and process safety and receiving assurance that processes to identify and mitigate such non-financial risks are appropriate in their design and effective in implementation. Key responsibilities The committee receives specific reports from the business segments as well as cross-business information from the functions. These include, but are not limited to, the safety and operational risk function, group audit, group ethics and compliance, business integrity and group security. The SEEAC can access any other independent advice and counsel it requires on an unrestricted basis. The SEEAC and audit committee worked together, through their chairs and secretaries, to ensure that agendas did not overlap or omit coverage of any key risks during the year. Members Alan Boeckmann Member since September 2014 and chair since May 2016 Paul Anderson Member since February 2010 Frank Bowman Member since November 2010 Cynthia Carroll Member since June 2007; retired May 2017 Ann Dowling Member since February 2012 Melody Meyer Member since May 2017 John Sawers Member since July 2015 Meetings and attendance There were six committee meetings in 2017. All directors attended every meeting for which they were eligible, apart from Cynthia Carroll who missed one meeting due to a conflicting meeting. In addition to the committee members, all SEEAC meetings were attended by the group chief executive, the executive vice president for safety and operational risk (S&OR) and the head of group audit or his delegate. The external auditor attended some of the meetings and was briefed on the other meetings by the chair and secretary to the committee. The group general counsel and group ethics and compliance officer also attended some of the meetings. At the conclusion of each meeting the committee scheduled private sessions for the committee members only, without the presence of executive management, to discuss any issues arising and the quality of the meeting. The group chief executive was invited to join the private meetings on an ad hoc basis. BP Annual Report and Form 20-F 2017/84

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Committee evaluation For its 2017 evaluation, the committee examined its performance and effectiveness through an internal questionnaire. Topics covered included the balance of skills and experience among its members, the quality and timeliness of information the committee receives, the level of challenge between committee members and management and how well the committee communicates its activities and findings to the board. The evaluation results continued to be generally positive. Committee members considered that they continued to possess the right mix of skills and background, had an appropriate level of support and received open and transparent briefings from management. All members emphasized that site visits remained an important element of the committee's work, particularly because they gave members the opportunity to examine how risk management is being embedded in businesses and facilities, including in the management culture. Joint meetings between the SEEAC and the audit committee were considered important in reviewing and gaining assurance around financial and operational risks where there was overlap between the committees, particularly in relation to ethics and compliance (see below). Activities during the year System of internal control and risk management The review of operational risk and performance forms a large part of the committee's agenda. Group audit provided quarterly reports on their assurance work on the system to inform the review. The committee also received regular reports from the group chief executive on operational risk, and from the system of internal control and risk management function, including quarterly reports prepared for executive management on the group's health, safety and environmental performance and operational integrity. These included quarter-by-quarter measures of personal and process safety, environmental and regulatory compliance and audit findings, as well as quarterly reports from group audit. In addition, the group ethics and compliance officer and the group auditor met in private with the chairman and other members of the committee over the course of the year. During the year the committee received separate reports on the company's management of risks relating to:

- Marine
- Wells
- Pipelines
- Explosion or release at our facilities
- Major security incidents
- Cyber security (process control networks).

The committee reviewed these risks and their management and mitigation in depth with relevant executive management. Corporate reporting The committee is responsible for the overview of the BP Sustainability Report 2017. The committee reviewed content and the revised presentation, and worked with the external auditor with respect to their assurance of the report. Site visits In June members of the committee, and other directors, visited the Cherry Point refinery in Blaine, Washington. The site visit included a tour of the dock, training simulator and control room. Meetings with senior leadership and representatives from across the site, including a local safety committee, were held. In July committee members, and other directors, visited the newly operational floating production, storage and offloading vessel, Glen Lyon, at our Quad 204 project in the UK North Sea. This was one of the seven major projects delivered during 2017 and the committee's visit was the first formal visit following its start-up. During visits committee members and other directors received briefings on operations, the status of conformance with BP's operating management system, key business and operational risks and risk management and mitigation. Committee members then reported back in detail about each visit to the committee and subsequently to the board. See page 75 for further details. Joint meetings of the audit and safety, ethics and environment assurance committees The audit committee and SEEAC hold joint meetings on a quarterly basis to simplify reporting of key issues that are within the remit of both committees and to make more effective use of the committees' time. Each committee retains full discretion to require a full presentation and discussion on any joint meeting topic at their respective meeting if deemed appropriate. The committees jointly met four times in 2017, with the chairmanship of the meetings alternating between the chairman of the audit committee and chairman of the SEEAC. Topics discussed at the joint meetings were the quarterly ethics and compliance reports (including significant investigations and allegations) and the 2018 forward programmes for the group audit and ethics and compliance functions. The committees reviewed the approach and disclosure statement under the UK Modern Slavery Act and the results of an externally facilitated review of the effectiveness and performance of group audit. See Glossary C orporate governance BP Annual Report and Form 20-F 2017 85

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Remuneration committee Key responsibilities The committee undertakes its tasks in accordance with applicable regulations, including those made from time to time under the Companies Act 2006, the UK Corporate Governance Code and the UK Listing Authority's Listing Rules in relation to the remuneration of directors of quoted companies. • Determine the remuneration policy for the chairman and the executive directors. • Review and determine the terms of engagement, remuneration and termination of employment for the chairman and the executive directors as appropriate and in accordance with the policy, and be responsible for compliance with all remuneration issues applicable to them. • Prepare the annual remuneration report to shareholders to show how the policy has been implemented. • Approve the principles of any equity plan that requires shareholder approval. • Approve the terms of the remuneration of the executive team (including pension and termination arrangements) as proposed by the group chief executive. • Approve changes to the design of remuneration, for BP group leaders as proposed by the group chief executive. • Monitor implementation of remuneration for group leaders to ensure alignment and proportionality. • Engage independent consultants or other advisers as the committee may from time to time deem necessary, at the expense of the company. Members Ann Dowling Member since July 2012 and chair since May 2015 Alan Boeckmann Member since May 2015 Ian Davis Member since July 2010 Brendan Nelson Member since May 2017 Paula Reynolds Member since September 2017 Andrew Shilston Member since May 2015; retired from the committee May 2017 Meetings and attendance Carl-Henric Svanberg and Bob Dudley attend meetings of the committee except for matters relating to their own remuneration. Bob Dudley is consulted on the remuneration of other executive directors, the executive team and more broadly on remuneration across the wider employee population. Both the group chief executive and chief financial officer are consulted on matters relating to the group's performance. The group human resources director attends meetings and other executives may attend where necessary. The committee consults other board committees on the group's performance and on issues relating to the exercise of judgement or discretion. Chair's introduction I am pleased to report on the work of the committee in 2017. Following substantial engagement with our shareholders in 2016 and early 2017, we were pleased to receive their support at the 2017 AGM. We applied our new remuneration policy from the start of 2017 and during the year have been addressing some transitional arrangements from old to the new policies. We also reviewed BP pay below the executive team by region, job level and sector to give additional context to our decisions on executive pay. Having served on this committee for six years, and as chair for the last three, I am stepping down from the committee after the 2018 AGM. Paula Reynolds, who joined the committee in September 2017, will take the chair. She is currently chair of the remuneration committee at BAE Systems plc and has served on that committee since 2015. During the year, Deloitte LLP had to stand down as our independent adviser following their forthcoming appointment as auditor. Following a competitive tender process, we appointed PwC LLP in their place. Professor Dame Ann Dowling Committee chair Role of the committee The role of the committee is to determine and recommend to the board the remuneration policy for the chairman and executive directors. In determining the policy, the committee takes into account various factors, including structuring the policy to promote the long-term success of the company and linking reward to business performance. After extensive shareholder engagement, we were pleased to receive strong support for our new remuneration policy at the 2017 AGM. BP Annual Report and Form 20-F 201786

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The committee met eight times during the year. All directors attended each meeting that they were eligible to attend, either in person or by telephone, except that Alan Boeckman was not able to attend a telephone meeting on 27 February in 2017. Activities during the year In the period before the 2017 AGM, the committee focused on finalizing the proposed new remuneration policy and outcomes for 2016. This involved reviewing directors' salaries and the group's performance outcome which in turn determined the annual bonus and the performance share plan. From the 2017 AGM, the committee focused on implementing the new policy, in particular looking more broadly at remuneration of employees below the executive team and the measures that could be used to reflect the transition to a lower carbon world. It also considered the implications of the transition from the 2014 to the 2017 policies, in particular aspects relating to share grants, and reviewed potential outcomes for 2017 at the end of the year. Following the appointment of Deloitte as the group's statutory auditor from 2018 (subject to shareholder approval) and the need for the firm to be independent prior to the transition of the audit, the committee appointed PwC as its independent adviser effective September 2017. The committee continued to monitor developments in potential regulation and legislation and held early discussions on the possible implications for its work. It also considered the company's disclosure on the UK gender pay gap. In each of its meetings, the committee focused on the overall quantum of executive director remuneration and its alignment to the broader group of employees in BP. It has sought to reflect the views of shareholders and the broader societal context in its decisions. Shareholder engagement There was substantial engagement with shareholders and proxy voting agencies ahead of the 2017 AGM, primarily carried out by the chair of the committee, supported by the chairman and company secretary. The committee chair tested proposals and sought support for the new policy put to shareholders at the 2017 AGM. In order to understand evolving issues – particularly around climate change – engagement continued throughout the year, primarily with larger shareholders and representative bodies. Committee evaluation We undertook an internally facilitated evaluation to examine the committee's performance in 2017. The evaluation concluded that the committee had worked well and continued to evolve after its intense work leading up to the 2017 AGM. Focus areas for 2018 included improving oversight of stakeholders' views on remuneration and in particular, deepening the committee's understanding of remuneration below the executive level. In addition, we focussed on staying up to date with external developments and emerging 'best practice' and improving remuneration reporting. See page 90 for the Directors' remuneration report. Chairman's introduction I am pleased to report on the work of the geopolitical committee in 2017, which continued to develop and evolve during the year. In addition to our regular meetings, we visited the group's response information centre in Sunbury, where we were briefed on the group's practices and procedures. During 2017 I also joined discussions of the international advisory board. Cynthia Carroll and Andrew Shilston stood down from the board at the 2017 AGM, and Melody Meyer joined the committee in May. Other board members joined our meetings from time to time. Sir John Sawers Committee chair Role of the committee The committee monitors the company's identification and management of geopolitical risk. Key responsibilities • Monitor the company's identification and management of major and correlated geopolitical risk and consider reputational as well as financial consequences: – Major geopolitical risks are those brought about by social, economic or political events that occur in countries where BP has material investments. – Correlated geopolitical risks are those brought about by social, economic or political events that occur in countries where BP may or may not have a presence but that can lead to global political instability. • Review BP's activities in the context of political and economic developments on a regional basis and advise the board on these elements in its consideration of BP's strategy and the annual plan. Geopolitical committee Corporate governance BP Annual Report and Form 20-F 2017 87

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Members John Sawers Member since September 2015 and chair since April 2016 Paul Anderson Member since September 2015 Frank Bowman Member since September 2015 Ian Davis Member since September 2016 Melody Meyer Member since May 2017 Cynthia Carroll Member from September 2016 to May 2017 Andrew Shilston Member from September 2015; retired May 2017 Meetings and attendance Carl-Henric Svanberg and Bob Dudley attend all committee meetings. The executive vice president, regions and the vice president, government and political affairs attend meetings as required. The committee met three times during the year. All directors attended each meeting that they were eligible to attend except that Cynthia Carroll was unable to attend the meeting on 1 February 2017. Activities during the year The committee developed and broadened its work over the year. It discussed BP's involvement in the key countries where it has investment or is considering investment in detail. These included Angola, the US, Russia, Mexico, Brazil, India, Mauritania and Senegal. It considered broader policy issues such as the US domestic and foreign policy under the new administration and the political and economic impact of a low price on producing countries. We reviewed the geopolitical background to BP's global investments and the politics around climate change. Committee evaluation The committee reviewed its performance by means of an internally facilitated questionnaire, and discussed the outcome of that evaluation at its meeting in January 2018. The evaluation concluded that the committee was working well and considering the right issues, but stressed the importance of considering the geopolitics in a country before an investment is made. The committee currently meets three times a year and is considering additional meetings. The committee and board felt that there should be greater integration between the work of the board, the committee and the international advisory board. Chairman's introduction The chairman's and the nomination committees were actively involved in the evolution of the board in 2017. In October, I announced that I would be standing down as chairman at an appropriate time after the R018 AGM in May. As a result, the board has started the search for my successor. This is being carried out by the chairman's committee led by Ian Davis, the senior independent director. The nomination committee continues to focus on board renewal and diversity. Carl-Henric Svanberg Chair of the committees Chairman's committee Role of the committee To provide a forum for matters to be discussed by the non-executive directors. Key responsibilities • Evaluate the performance and the effectiveness of the group chief executive. • Review the structure and effectiveness of the business organization. • Review the systems for senior executive development and determine succession plans for the group chief executive, executive directors and other senior members of executive management. • Determine any other matter that is appropriate to be considered by non-executive directors. • Opine on any matter referred to it by the chairman of any committees comprised solely of non-executive directors. Members The committee comprises all non-executive directors. Directors join the committee immediately on their appointment to the board. The group chief executive attends meetings of the committee when requested. Chairman's and nomination committees BP Annual Report and Form 20-F

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Meetings and attendance The committee met 10 times in 2017. All directors attended all the meetings for which they were eligible, except that Cynthia Carroll was unable to attend the meeting on 1 February, as was Paula Reynolds for the 19 May 2017 meeting. Nils Andersen did not attend the meetings where succession was discussed. The chairman did not attend the meeting on 2 February when the committee, led by Andrew Shilston, the then senior independent director, carried out an evaluation of the chairman. Bob Dudley and Brian Gilvary joined meetings where the chairman's succession was discussed. Matters relating to the business of the nomination committee were also discussed at some meetings. Activities during the year

- Evaluated the performance of the chairman and the group chief executive.
- Considered the composition of and the succession plans for the executive team.
- Determined the process for the search for a new chair and appointed advisers to support the committee.
- Commenced the search for the new chair.

Discussed the strategy options for the company, including the lower carbon transition. Nomination committee Role of the committee The committee ensures an orderly succession of candidates for directors and the company secretary. Key responsibilities

- Identify, evaluate and recommend candidates for appointment or reappointment as directors.
- Identify, evaluate and recommend candidates for appointment as company secretary.
- Keep the mix of knowledge, skills and experience of the board under review to ensure the orderly succession of directors.
- Review the outside directorship/commitments of non-executive directors.

Members Carl-Henric Svanberg Member since September R009 and chair since January R010 Alan Boeckmann Member since April 2016 Ann Dowling Member since May 2015 John Sawers Member since April 2016 Ian Davis Member since August 2010 Andrew Shilston Member between May 2015; retired May 2017 Andrew Shilston left the committee when he stood down from the board in May 2017.

Meetings and attendance The committee met three times in 2017. During the second half of the year, matters relating to the appointment of new directors were considered jointly with the chairman's committee. All directors attended each meeting that they were eligible to attend. Activities during the year

The committee monitored the composition and skills of the board. Paul Anderson will be retiring from the board at the 2018 AGM. The committee focused on ensuring that the board's composition is strong and diverse. As a result, the board is proposing Dame Alison Carnwath for election as a director at the 2018 AGM. Committee evaluation The committee generally continues to work well. Its balance of skills and experience needs to be maintained so that it is able to govern the company as it implements its strategy in the transition to the lower carbon world. It expressed a need to ensure that the board maintains strong former executive membership and this will be a focus in forthcoming appointments. Corporate governance BP Annual Report and Form 20-F 2017 89

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We have made our decisions in a considered way, applying discretion where necessary, as we transition to the new policy. Professor Dame Ann Dowling, Chair of the remuneration committee, Directors' remuneration report. Dear shareholder, Last year, we introduced a new remuneration policy. This followed extensive consultation with major shareholders and with their representative bodies. They were clear that they wanted our policy to be simple and transparent, with a strong link between pay and performance, and deliver reduced levels of reward. We listened and responded to those concerns. We were pleased to receive strong support for this policy at the 2017 AGM. It is clear to us that you, our shareholders, expect us to implement this policy in a considered way and to be ready to apply discretion when necessary. 2017 has been a transitional year as we have moved from the old policy to the new. We applied the new policy from the start of 2017 (see panel opposite). Therefore salary, the 2017 annual bonus and long-term awards made in 2017, based on performance over the three-year period 2015-17, are all made under the new policy. However, the long-term awards granted under the 2015-17 plan were under our old policy and are based on measures in that policy. The committee scored the safety, operational and financial performance against targets set in 2015, before reviewing the result to see if discretion should be applied. Business performance over the period, and in particular for 2017, has been strong, reflected in the company's first place ranking for TSR among our peer group of major oil and gas companies. However, while returns, which have been explicitly included in the new policy through a ROACE measure have more than doubled over the last two years, there is room for further improvement and the company has continued to incur costs from the Gulf of Mexico oil spill payments. Taking these factors into account, the committee chose to reduce the level of payment for these long-term performance shares by 26%. In applying this reduction, the committee acted in accordance with the messages we received from shareholders and the principles that govern our new policy. In 2015 Bob Dudley received a maximum performance award of 550% of salary for the period 2015-17. In the spirit of applying the new policy early, he requested a reduction in his maximum award to 500% in line with the 2017 policy. The committee appreciates this request which, together with the committee's discretion, has reduced his payment by \$4.2 million (24%) from the formulaic outcome. We believe that the outcome for executive directors, representing an increase on 2016 but moderated by discretion, fairly reflects management's performance and the experience of shareholders over this longer period, and is consistent with the aims of the policy approved by shareholders last year. Business performance 2017 has been one of the strongest years of operational delivery for BP. This has been reflected in our financial results, with a doubling of our underlying replacement Contents 93 Summary of pay and performance 94 Summary of policy approach 95 Single figure table 96 Alignment with strategy 98 Pay and performance for 2017 102 Implementation of policy for 2018 105 Stewardship 107 Non-executive directors 108 Executive directors' interests 110 Policy summary tables More information Key performance indicators For an overview of the group's KPIs, with those featuring in the current and previous remuneration policies, see page 18. BP Annual Report and Form 20-F 2017/90 Key outcomes for 2017 Bob Dudley (GCE) – total pay \$13.4m \$19.4m 2015 \$11.9m 2016 \$17.6m 2017 Formulaic outcome -\$0.8m GCE request for 2017 policy vesting (550% to 500%) -\$3.4m Impact of committee discretion 2017 single figure outcome Discretion used to reduce outcome for performance. Total pay reduced by \$4.2 million (24%) due to GCE request and committee discretion. First among peers for total shareholder return. Seven major projects delivered in the year.

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Directors' remuneration report cost profit over the year to \$6.2 billion and an underlying operating cash flow of \$24.1 billion, excluding post-tax oil spill related payments. Over the year BP distributed \$7.9 billion in dividends. Following consistent strong progress and the board's confidence in the growing organic free cash flow, we recommenced a share buyback programme in the fourth quarter to offset dilution from the scrip dividend paid to shareholders electing to receive shares rather than cash. Our TSR for the period 2015-17 was first among our peer group of major oil and gas companies. TSR on the UK shares has been 44% over the three-year period, significantly out-performing the UK market. Seventeen major projects have been delivered over the three-year period. This has contributed to a 10% increase in BP's reported production since 2016 and places us in a strong position for further growth. We have had our most successful year of exploration since 2004. The downstream business had an excellent year in terms of replacement cost profit, driven by strong earnings growth in our marketing and manufacturing businesses. Our Alternative Energy business grew and BP re-entered solar but in a new way, partnering with Lightsource to combine our scale, relationships and expertise in major projects with Lightsource's expertise in developing solar projects.

Overall this has been a year of disciplined execution and growth across the business and BP has made a good start in delivering the company's five-year strategy out to 2021. Committee process for 2017 In order to gain a comprehensive perspective on performance, the remuneration committee sought the views of the board, audit committee and safety, ethics and environment assurance committee (SEEAC) to evaluate the group's performance against financial, operational and strategic measures for the purposes of executive remuneration. Incentive outcomes in 2017 2017 was a year of strong performance and achievements, where all targets were met or exceeded for the annual bonus, leading to a formulaic result of 1.54 out of 2. The audit committee and the SEEAC recommended an exercise of downward discretion. This resulted in the remuneration committee reducing the final bonus score to 1.43 out of 2.

This results in a bonus of 71.5% of the maximum, half of which will be delivered as shares and held for three years. For the performance share award made in 2015, the measures are relative TSR, and various financial, safety and operational measures assessed over the three years from 2015 to 2017. The formulaic results led to an outcome of 96% of maximum, reflecting the fact that BP came in first place against the peer group on relative TSR and performed strongly against the other targets set. This outcome was considered by the committee and reviewed with the executive directors in the context of the overall levels of pay, the wider performance of the company, and the experience of shareholders over Performance assessed against safety, operational and financial measures. Determined outcomes against targets set. Sought input from the SEEAC and audit committee to ensure a holistic review of performance. Annual bonus scores reduced following the committees' review. The remuneration committee considered outcomes in the context of BP's group leaders and the broader comparator group of US and UK employees in professional and managerial roles. The committee used judgement to reflect the broader market environment and outcomes for shareholders. Downward discretion exercised for final outcomes. Assess performance Review outcomes with committees Alignment with employees Apply discretion 4321 How did we determine 2017 outcomes? Simplification • Reduction to two incentive plans – a short-term annual bonus and a long-term performance share plan – deferred shares no longer matched with additional shares. • Maximum bonus only earned where stretch performance is delivered on every measure. • Fewer measures. Eliminated duplication of measures between bonus and long-term incentives. Transparency • Total shareholder return (TSR) and return on average capital employed (ROACE) targets disclosed at the start of the three-year performance period. For awards granted in 2017 and 2018, these determine 80% of the available performance shares. • The group's quarterly results announcements now include updates on all of the KPIs on which remuneration is based other than TSR, with commentary on progress on our strategic priorities which, for awards granted in 2017 and 2018, determine 20% of the available performance shares. Reduced package • The level of bonus paid for an 'on-target' score reduced by 25%, and the mandatory bonus deferral increased to 50% of bonus with no matching shares. Bonus scale for executive directors now aligned with the wider managerial population. • The maximum longer-term incentives for the group chief executive (GCE) reduced from seven times salary (previously made up of matching shares on the deferred annual bonus and performance shares) to a maximum of five times salary. Link to strategy and shareholder outcome • Straightforward use of TSR and ROACE as measures of longer-term performance. • Performance shares vest based in part on strategic priorities which include BP's progress towards a lower carbon future. Stewardship • No change to the six-year period for performance shares (three-year holding period after three-year performance period), nor to the minimum shareholding requirement of 5x base salary. There is a new post-retirement holding expectation of 2.5x base salary. • Safety and the environment remain important considerations through bonus measures and the underpin on long-term incentives. • Remuneration committee has the responsibility of balancing the outcomes from quantitative results with discretion to adjust final results based on the broader environment and performance.

For the full policy see bp.com/remuneration A summary of the 2017 policy is set out on page 110, including the following changes to the 2014 policy: BP Annual Report and Form 20-F 2017 91 C Corporate governance

Directors' remuneration report the three-year period of the plan. In addition, the committee decided to incorporate early application of some of the principles of the new 2017 policy, for example the more stringent vesting scales. In light of these factors and an overall assessment of pay relative to performance, the committee applied its discretion to reduce the 2015 performance share award vesting from 96% to 70% of maximum. The exercise of committee discretion on annual bonus and performance share outcomes reduced the amount of variable pay by \$3.4 million for Bob Dudley and £1.2 million for Brian Gilvary. Consistent with the approach of applying certain aspects of the new policy early, Bob Dudley has requested that his performance share vesting should be based on an award level of 500% of salary (from the R017 policy), rather than the 550% of salary that applied for the 2014 policy. Furthermore, demonstrating their commitment to delivering long-term sustainable value for BP shareholders, the executive directors have also voluntarily agreed to the extension of vesting periods for certain share awards under a discontinued plan as a transitional approach to the new policy. These share awards remain subject to continued application of a safety underpin. Following these decisions, the total reported single figure of pay for Bob Dudley and Brian Gilvary was \$13.4 and £6.5 million. These are substantially below formulaic outcomes for 2017 but, because the business performance is much improved, are higher than the single figure outcomes for 2016. The committee believes that these outcomes appropriately reflect the strong operational and financial performance of BP this year and over the past three years whilst demonstrating a commitment to a considered approach. This year's single figure for Brian Gilvary is substantially affected by the inclusion of deferred bonus shares from 2014 which have now vested, and the 2017 bonus shares that are being deferred but we now report in the year the shares are granted. Implementation of the policy for 2018 We plan to make two changes to the performance measures in 2018.

For the annual bonus, the upstream measure for 'reliable operations' will be changed from 'upstream operating efficiency' to 'BP-operated upstream plant reliability', creating comparability between our upstream and downstream measures. For performance shares granted in 2017, the ROACE target was based on the final year of the performance period. In response to investor feedback, we are moving progressively towards a three-year evaluation period to encourage steady and sustainable growth. For the 2018 awards, we will average ROACE over the final two years (2019 and 2020) and then use a three-year average for 2019 awards onwards. We reviewed base salaries for the Bob Dudley and Brian Gilvary, noting the salary increases for UK and US-based employees across the group. The committee has decided there should be no increase in annual salary for Bob Dudley. Brian Gilvary's salary will be increased by 2%, which was below the general increases for the UK and US based employees across the group. Alignment with strategy and the low carbon transition In 2017 BP announced details of our five-year strategy to 2021, focusing on strategic and investment choices that are resilient to a range of future outcomes whilst considering the dual challenge of meeting society's need for more energy while working to reduce carbon emissions. To reinforce the importance of the strategy for the group's long-term success, the 2017 policy introduced a balanced but stretching set of measures into the incentives to reflect BP's strategy. During the year we have included updates on our strategic progress in our quarterly results announcements. We also introduced an underpin for performance shares which includes absolute TSR, safety performance and consideration of issues around carbon and climate change. This framework will allow the committee to monitor progress against the broader approach we outlined in February R018 – reducing our emissions, improving our products and creating low carbon businesses. See 'Advancing the energy transition' on page 96. Wider workforce pay During the year the committee reviewed the group's approach to reward below board level across job levels and geographies. This wider environment provided important context for the committee's decisions on executive directors' remuneration. Last year, we voluntarily disclosed the GCE-to-employee pay ratio, using the employee comparator group of the professional/managerial grade employees based in the UK and US (representing some 30% of the global employee population). We are aware that regulations will be introduced to require companies to calculate and disclose a ratio. As the regulatory methodology is not yet final, we have continued the practice we adopted in 2017. Work undertaken by the group in preparation for UK regulatory requirements on gender pay gap reporting was reviewed with the committee, who considered the distribution of employees by grade and gender. In that context the committee received assurance that there was equal pay for equal or like work. Committee changes There have been changes to the membership of the committee during the year: Andrew Shilston retired from the board at the AGM in May R017, with Brendan Nelson and Paula Reynolds joining the committee during 2017. The chairs of both audit committee and SEEAC are now members of the remuneration committee which strengthens the committee's ability to take a wider perspective on the group's performance when discussing reward. I believe that we have a broad range of skills and experience amongst the membership upon which to draw on when looking at issues around remuneration. Following six years on this committee, the last three as chair, I have decided to step down from the committee following the AGM in May R018. Paula Reynolds will take the chair. I want to take the opportunity to thank my fellow committee members for their support and welcome Paula to the role of chair. I would also like to thank the executive directors for their positive engagement in the policy changes and exercise of discretion over the last two years. Conclusion The board continues to place a high priority on building confidence in the operation of our remuneration policy. This requires the remuneration committee to exercise discretion to align pay outcomes to performance, particularly as we navigate the transition from the pre-2017 policy to our new policy for the future. We have sought to do this in a considered way that reflects shareholder expectations, the performance of BP, and the commitments made to executives. In putting this report forward for an advisory vote at the AGM, we seek your support for the balance we have struck. Professor Dame Ann Dowling Chair of the remuneration committee R9 March 2018 BP Annual Report and Form 20-F

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Directors' remuneration report Summary of our pay and performance for 2017 2017 2016 2015 \$13.4m \$11.9m \$19.4m 2014 \$16.4m

Bob Dudley, group chief executive Total remuneration 2017 2016 2015 2014 Brian Gilvary, chief financial officer Total remuneration £6.5m £4.2m £5.1m £3.6m 2017 We have made good progress, with strong cash flow and share price growth and the announcement of a number of major investments, all aimed at contributing to returns over the medium and long term. \$24.1bn Operating cash flow, excluding Gulf of Mexico payments. 1st Among peers for total shareholder return for R015-17. Bob Dudley, group chief executive Brian Gilvary, chief financial officer Business performance Remuneration outcomes Share ownership Key strategic highlights • Underlying replacement cost profit up 139%. • Organic cash flows back in balance. • Seven new major projects delivered. a The final outcome for part of this award is based on the company's relative RRR ranking, presently forecast to be second amongst its peers: this will not be known until after the publication of our peers' reports and will therefore be reported in the directors' remuneration report for 2018. Salary and benefits Retirement benefits Annual bonus Performance shares Discontinued plans \$7.9bn Dividends paid, including scrip. Policy requirement: minimum of five times salary 3,065,694 sharesb 10.71 times salary 11.17 times salary1,825,299 shares bHeld as ADSs. Shareholding is a key means by which the interests of executive directors are aligned with those of shareholders. As at 14 March 2018 both directors had holdings in BP which significantly exceeded their shareholding requirement. Further details are set out on page 105. Annual bonus Performance shares Nil NilPerformance measures (% weighting) Performance measures (% weighting) Maximum Maximum Performance outcomes 77% Formulaic outcome (% of maximum) -5.5% Committee discretion to reduce award 71.5% Final outcome after committee discretion (% of maximum) 96% Formulaic outcome (% of maximum) -26% Committee discretion to reduce award 70% Expected outcome after committee discretiona (% of maximum) Financial Relative TSR (33.3%) Cumulative operating cash flow (33.3%) Reserves replacement ratioa (11.1%) Major project delivery (11.1%) Safety and operational risk – Tier 1 process safety events – Recordable injury frequency Strategic imperatives (11.1%) Safety Tier 1 process safety events (10%) Recordable injury frequency (10%) Refining availability (15%) Upstream operating efficiency (15%) Financial Operating cash flow (excluding Gulf of Mexico oil spill payments) (20%) Underlying replacement cost profit (20%) Upstream unit production costs (10%) Reliability Reduction in total remuneration BP Annual Report and Form 20-F 2017 93 C orporate governance \$3.4 million Reduction due to committee discretion \$0.8 million Bob Dudley's voluntary performance share reduction £1.2 million Reduction due to committee discretion

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Summary of our remuneration policy and approach for 2018 Directors' remuneration report 2018 Competitive salary and benefits to reflect role and home country norms • Continuing requirement for directors to maintain a holding of five times salary. • It is expected that Bob Dudley and Brian Gilvary will maintain a holding of at least 250% of salary for two years following retirement. • In addition the executive directors have voluntarily agreed to extend the vesting periods of certain discontinued share awards, subject to a continued safety underpin. Share ownership Long-term shareholding Bonus aligned with annual objectives Share award for meeting three-year targets Fixed pay policy is unchanged. Salary and benefits are set at a level which reflects the scale and complexity of the role while recognizing competitive practice in the relevant market. • From September 2016, Bob Dudley has no further service accrual under the defined benefit pension arrangements. The T01(k) benefits have been partially capped for future years. • Brian Gilvary receives a cash supplement on the same terms as other participants in the BP UK defined benefit scheme. He receives no further service accrual under the defined benefit pension arrangements. The bonus links variable pay to safety, reliable operations and financial performance for the year. Stewardship and alignment with shareholders • The salary for the group chief executive will remain at \$1,854,000 for 2018. Bob Dudley has not received a salary increase since July 2014. • With effect from the AGM, the salary for the chief financial officer will be £775,000. • The increase to Brian Gilvary's salary continues to reflect the changes to his role when he took on additional responsibilities for BP's trading and shipping functions. This increase of 2% is within the range used by the company for other UK and US employees. • Benefits will remain unchanged – these include car-related benefits, security assistance, insurance and medical benefits. • Maximum bonus only payable for outperformance on every measure. • Bonus payable for delivery of bonus scorecard of 1.0 out of 2.0 is half of maximum. • 50% of any bonus earned will be paid in cash; there will be a mandatory deferral of 50% into shares for three years. • Awards will be subject to clawback and malus provisions. • The measures for the bonus are set annually to reflect annual priorities. • For 2018, performance judged on three key areas: – safety (20%) – reliable operations (30%) – financial performance (50%). • Overall discretion to review outcomes in the context of annual performance. Directly linked to long-term performance and represents the largest part of the package. • Three-year performance period, with further three-year holding period. • Measures aligned to long-term strategy and shareholders' interests. • Awards will be subject to clawback and malus provisions. • For 2018 awards, performance judged on three key areas: – TSR relative to oil and gas majors over three years (50%) – ROACE based on the average of performance over 2019 and 2020 (30%) – strategic progress assessed over the performance period (20%). • Additional underpin – broader performance including absolute TSR performance and safety and environmental factors (including consideration of issues around carbon and climate change) to be considered before determining vesting outcomes. Elements of package BP's policy approach Salary and benefits Retirement benefits Annual bonus Performance shares Share ownership Approach Salary and benefits Retirement benefits Annual bonus Up to 225% of salary Performance shares GCE – 500% CFO – 450% of salary ar rship Simplification. Reduced package versus previous policy. Link to strategy. Stewardship. ? Annual Report and Form 20-F 201794

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Directors' remuneration report Single figure table – executive directors' (audited) Bob Dudley (thousand) Remuneration is reported in the currency in which the individual is paid Brian Gilvary (thousand) 2017 2016 2017 2016 Salary and benefits Salary \$1,854 \$1,854 £752 £732 Benefits \$73 \$74 £38 £67 Retirement benefits Pension and retirement savings – value increase^a \$746 \$2,205 £186 – Cash in lieu of future accrual – – £263 £256 Annual bonus Cash bonus \$1,491 \$1,696 £611 £669 Shares – deferred for three years \$1,491 – £611 – Performance shares Performance shares \$7,787b \$4,024c £2,981b £1,455c Total remuneration (excluding discontinued plans)^d \$13,443 \$9,852 £5,440 £3,179 Discontinued plans Deferred share awards from prior-year bonuses^e –f \$2,052 £1,040 £1,065 Total remuneration^d \$13,443 \$11,904 £6,481 £4,244

^a Represents (1) the annual increase net of inflation in accrued pension multiplied by 20 as prescribed by UK regulations, and (2) the aggregate value of the company match and investment gains on the accumulating unfunded BP Excess Compensation (Savings) Plan (ECSP) account under Bob Dudley's US retirement savings arrangements. Full details are set out on page 101.

^b Represents the assumed vesting of shares in 2018 following the end of the relevant performance period, based on a preliminary assessment of performance achieved under the rules of the plan and includes reinvested dividends on shares vested. In accordance with UK regulations, the vesting price of the assumed vesting is the average market price for the fourth quarter of 2017 which was £5.01 for ordinary shares and \$39.85 for ADSs. The final vesting will be confirmed by the committee in second quarter of 2018 and provided in the 2018 directors' remuneration report. Bob Dudley has requested that the EDIP performance share vesting in respect of the performance period 2015-17 is based on the 500% maximum annual award level which applies under the 2017 directors' remuneration policy, rather than the 550% maximum annual award level which applies under the 2014 directors' remuneration policy.

^c In accordance with UK regulations, in the 2016 single figure table, the performance outcome value was based on an estimated vesting at an assumed share price of £4.73 for ordinary shares and \$35.39 for ADSs. In May 2017, after the external data became available, the committee reviewed the relative reserves replacement ratio position. This resulted in no adjustment to the final vesting of 40%. On 19 May 2017, 108,923 ADSs for Bob Dudley and 308,286 shares for Dr Brian Gilvary vested at prices of \$36.94 and £4.72 respectively. This total includes the additional accrual of notional dividends which vested on 2 August 2017. The 2016 values for the total vesting have increased by \$310,709 for Bob Dudley and by £67,820 for Dr Brian Gilvary.

^d Due to rounding, the total does not agree exactly with the sum of its component parts.

^e Value of vested deferred bonus and matching shares. The amounts reported for 2017 relate to the 2014 annual bonus deferred over three years, which vested on 20 February 2018 at the market price of £4.75 for ordinary shares and include reinvested dividends on shares vested. There was an additional accrual of notional dividends on 29 March 2018 which will vest in 2018 and will be provided in the 2018 directors' remuneration report. The amounts reported for 2016 relate to the 2013 annual bonus and have been adjusted from the number provided in the 2016 directors' remuneration report to include the accrual and vesting of notional dividends.

^f As stated in the 2016 directors' remuneration report, Bob Dudley has voluntarily agreed to defer vesting of these awards until after retirement, therefore the performance period is expected to exceed the minimum term of three years.

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C Corporate governance Key outcomes for 2017 Bob Dudley (GCE) – total pay \$13.4m \$19.4m 2015 \$11.9m 2016 \$17.6m 2017 Formulaic outcome -\$0.8m GCE request for 2017 policy vesting (550% to 500%) -\$3.4m Impact of committee discretion 2017 single figure outcome Discretion used to reduce outcome for performance. Total pay reduced by \$4.2 million (24%) due to GCE request and committee discretion. First among peers for total shareholder return. Seven major projects delivered in the year.

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Alignment with strategy Directors' remuneration report How we align our strategy and remuneration measures Safe, reliable and efficient execution A distinctive portfolio fit for a changing world Value based, disciplined investment and cost focus Growing sustainable free cash flow and distributions to shareholders over the long term Safer Fit for future Focused on returns Element of remuneration

BP set out an update of its strategy in 2017, which was reinforced in the results announcement in February 2018. The foundations for strong performance are safe and reliable operations, a balanced portfolio, and a focus on returns. Annual bonus Safety Reliable operations Financial performance Performance shares Total shareholder return Return on average capital employed Strategic priorities Underpin: absolute TSR and safety/environmental factors Low carbon transition

BP's ambition is to provide more energy while advancing the energy transition. The focus on lower carbon has three main elements: Strategic priorities The strategic priorities component of the performance shares covers measurement across a range of objectives including: growing gas and advantaged oil in the upstream; market-led growth in the downstream; venturing and low carbon across multiple fronts; and gas, power and renewables trading growth. These priorities are aimed at growing sustainable value for our shareholders and increasing the proportion of lower carbon activities in our portfolio over time. The seven major project start-ups in 2017 (see page 14) have enabled a significant shift in the proportion of gas in our portfolio, laying a strong foundation for our gas business moving forwards. Progress against each of the strategic priorities is being monitored against a balanced set of measures that will be viewed in the round relative to strategy. For example, 'growing gas and advantaged oil in the upstream' will be assessed against a range of measures including the proportion of gas in the portfolio and the movement of unit production costs per barrel (which reflect how 'advantaged' the barrels are). Reducing our emissions in our operations Creating low carbon businesses More information Advancing the energy transition

In this report, we examine how the energy world is rapidly changing, set out our low carbon ambitions and the changes we are making across our entire business to help advance the energy transition. Publishes April, see bp.com/energytransition

Improving our products Reducing our emissions through operational emission reduction activities. Improving our products to enable customers to lower their emissions. Creating low carbon businesses to grow value and complement our existing portfolio. BP Annual Report and Form 20-F 2017/96

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Directors' remuneration report The committee believes that BP's strategic priorities can help advance the energy transition. The measures related to our lower carbon activities – gas, venturing, renewables trading and renewable energy – underscore this commitment. These activities should grow over time. Our performance share plan features an underpin which will be applied after the formulaic outcome but before the final vesting outcome has been determined. This underpin takes into account absolute TSR, safety and environmental factors (including consideration of issues around carbon and climate change). In this regard, the committee will consider progress on matters such as reducing emissions, improving our products and creating low carbon businesses.

Remuneration in the wider group During the year the committee has received detailed information on pay below the board by region and job level, including the cascade of pay mix and incentive structures, typical salary budgets, and approaches across different sectors of the group's business. This context has informed decision making on executive director pay, for example in relation to bonus outcomes, which are largely aligned across the group, and salary increases. UK gender pay gap The committee reviewed the data and methodology for the group's reporting against the UK gender pay gap regulations. These require the company to publish the difference in mean and median pay, mean and median bonus pay, proportion of male and female employees who received bonus pay and the number of male and female employees in quartile pay bands. The committee also looked at factors such as:

- The uneven gender distribution of employees within BP job grades.
- How certain roles with specific pay practices such as allowances (e.g. offshore/rotator allowances) and bonus structures (e.g. trading bonuses) have a disproportionately higher number of men and contribute to the pay and bonus gap.
- How the gender pay gap analysis does not take grades and roles into consideration (as when analysing by internal grade, BP's pay gap falls significantly).

The committee was assured that the group provides equal pay for equal or like work. Finally the committee and the board considered BP's initiatives to support long-term growth in female talent, including developing the technical talent pool, hiring, retention and progression. BP's gender pay gap in 2017 report was published on 21 February 2018 and can be found at bp.com/ukgenderpaygap.

a Total remuneration reflects the reduction in number of employees and the total overall employee costs. See Financial statements – Note 33 for further information. b Capital investment is illustrated to reflect the overall scale of BP investment decisions. BP changed its reporting of organic capital expenditure to a cash basis in 2017; the 2016 number has been restated to be reported on a cash basis. GCE-to-employee pay ratio The committee commenced reporting on the GCE-to-employee pay ratio in 2017. The committee notes that regulations will be published during R018, setting out a methodology for the calculation of such a ratio. As the regulatory methodology to be used is not yet final, the committee has continued with the approach we used in 2017 and the comparator group which it believes is the most relevant for BP. This group is the professional/managerial grade employees based in the UK and US which represent some 30% of the global employee population and is used elsewhere in this report. The GCE-to-median worker pay ratio for this group was 92 to 1 in 2017 (71 to 1 in 2016). The ratio is based on a comparison of total compensation (base salary, actual annual bonus and vested equity awards) in the year. Percentage change in GCE remuneration Comparing 2017 to 2016

Salary Benefits Bonus % change in GCE remuneration 0% -0.6% 75.8% % change in comparator group remuneration 4.3% 0% 22.9% The comparator group used here is the same as that used in the pay ratio calculation above, and comprises some 30% of BP's global employee population being professional/managerial grades of employees based in the UK and US and employed on more readily comparable terms. Relative importance of spend on pay (\$ million) Distributions to shareholders Remuneration paid to all employeesa Capital investmentb

| | 2017 | 2017 | 2017 | 2016 | 2016 | 2016 | 2016 |
|--------|--------|--------|-------|--------|------|------|--|
| 11,233 | 16,501 | 16,675 | 7,867 | 10,204 | 2016 | 2016 | BP Annual Report and Form 20-F 2017 97 C |
| | | | | | | | Corporate governance |

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Pay and performance for 2017 Directors' remuneration report Base salary No salary increase was awarded to Bob Dudley for 2017 and his salary remained at \$1,854,000. Bob Dudley has not received a salary increase since 2014. As was disclosed in the 2017 report to shareholders, Brian Gilvary's salary was increased with effect from May 2017 to £759,000 reflecting his additional responsibilities for BP's trading and shipping functions. Benefits Executive directors received car-related benefits, security assistance, insurance and medical benefits. Salary and benefits The targets for the 2017 annual bonus were set at the start of the year based on a combination of safety, reliability and financial performance. Targets were set in the context of the group's strategy and the annual plan. During 2017 BP's share price performed strongly. The group distributed \$7.9 billion to shareholders in cash and scrip dividends. In the fourth quarter, the group commenced a share buyback programme to mitigate the dilutive effects of issuing shares under the scrip dividend programme. Overall it was one of the strongest years in BP's recent history. There was delivery of the group's strategy, particularly the delivery of seven major projects within the year and below the total budget. There were strong earnings in the downstream and a 10% year-on-year increase in production for the BP group as a whole. The group's operating cash flow was strong and well above plan. Underlying replacement cost profit was \$6.2 billion, an increase of Q39% on 2016. Goals for reduction in controllable costs were delivered, together with good discipline on capital expenditure. Operational reliability was high and safety outcomes were above target. When reviewing performance over the period, the committee sought input from the chairs of the audit committee and the SEEAC to ensure a comprehensive review of performance. Following input from the audit committee on the treatment of certain accounting items for which it would not be appropriate for participants to benefit, for example a gain from a legal settlement, the formulaic score under the bonus was reduced from 1.54 to 1.49. In addition, the SEEAC recommended an exercise of downward discretion to the safety element for executive directors after taking a longer term view of safety performance to date. Following SEEAC's recommendation on the safety component of the scorecard, the remuneration committee exercised its discretion to reduce the score by 0.06, resulting in a final annual bonus scorecard outcome of 1.43 out of 2, a payout of 71.5% of maximum. Overall, the committee believes that the bonuses for 2017 fairly reflect performance over the period. Outcome Name Adjusted outcome after committee discretion (thousand) Paid in cash (thousand) Deferred into BP shares (thousand) Bob Dudley \$2,983a \$1,491 \$1,491 Brian Gilvary £1,221a £611 £611 a Due to rounding, the total does not agree exactly with the sum of its component parts. Under the terms of the 2017 policy, half of the bonus earned is deferred into shares that will vest after three years. Deferred bonus shares are now reported in the single figure for the bonus year to which they relate. This is different from the 2014 policy, when the shares were only reported on vesting at the end of the three-year period. For Brian Gilvary, the 2017 single figure includes both the 2017 bonus deferred to future years, and the deferred shares from the 2014 bonus vesting in the current period. Annual bonus BP Annual Report and Form 20-F 201798

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2017 annual bonus Measures Weighting Threshold (0) Target (1) Maximum (2) Performance and outcome Tier 1 process safety event (defined by API) 10% 24 events 0 20 events P.1 14 events P.2 18 events P.13 Recordable injury frequency 10% 0.249/200k hrs 0 0.228/200k hrs 0.1 0.188/200k hrs 0.2 0.218/200k hrs P.12 Safety outcome 0.25 Downstream refining availability (Solomon Associates' operational availability) 15% 94.6% 0 95.1% 0.15 95.6% 0.3 95.3% P.21 Upstream operating efficiency 15% 77.3% 0 79.3% 0.15 81.3% 0.3 80.5% P.24 Reliable operations outcome 0.45 Operating cash flow (excluding Gulf of Mexico oil spill payments) 20% \$19.9bn P \$21.4bn P.2 \$22.9bn P.4 \$24.1bn P.4 Underlying replacement cost profit 20% \$5.0bn P \$5.8bn P.2 \$6.6bn P.4 \$6.2bn P.29 Upstream unit production costs 10% \$7.7/bbl P \$7.3/bbl P.1 \$6.9/bbl P.2 \$7.11/bbl P.15 Financial performance outcome 0.84 1.54 out of 2.0 Directors' remuneration report T1 Safety 0.25 Reliable operations P.45 Financial performance P.84 Formulaic score Q.54 out of 2.0 2 3 Scorecard Annual bonus – continued More information Key performance indicators page 18REM Measures used for the 2017 remuneration policy. Safety (20% weight)1 Financial performance (50% weight)3 Reliable operations (30% weight)2 Formulaic score4 71.5% outcome of maximum bonus Formulaic scorecard outcome 1.54 out of 2 Audit committee Discretion - 0.05 SEEAC Discretion - 0.06 1.43 out of 2 Final scorecard outcome For performance shares awarded in 2015, vesting was determined under the terms of the 2014 policy, by a combination of relative TSR, safety, financial and operational performance assessed over the three years from 2015 to 2017. The results are summarized in the table on page 100. TSR – the company's TSR over the three-year period was in first place. The TSR element is measured on a relative basis in common currency against the oil majors: Chevron, ExxonMobil, Shell and Total. Cumulative operating cash flow – under the 2014 policy, the outcome was measured by taking the cumulative operating cash flow for the three years. This measure was assessed by adjusting the target to the actual oil price as has been the case in previous years. Against this adjusted target, this element of the performance shares achieved maximum score of 33.3%. Without adjustment, the score would reduce from 33.3% to 32.4%, a reduction of 0.9%. Safety and operational risk – assessed through a look-back over tier 1 process safety events and recordable injury frequency (RIF) over the three-year period. The committee sought input from the SEEAC in making this subjective assessment. The SEEAC noted the reduction in tier 1 events, the trend in RIF and the high annual scores for both safety measures throughout the three-year period and recommended a score of 85% of maximum for this element of the performance shares. Performance shares BP Annual Report and Form 20-F 2017 99 C Corporate governance

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The committee's discretion and Bob Dudley's request together reduced the vesting value of his performance shares by \$4.0 million. Directors' remuneration report. Project delivery – the vesting outcome reflects the strong progress over the three-year period with 17 projects delivered, seven within 2017. Further details of these projects are set out on page 14. Relative reserves replacement ratio – preliminary assessment indicates vesting for this measure. For the purpose of this report, a forecast of second place has been used. The final outcome for this measure will be confirmed later in the year, once competitor data is published in full. Contextual review. The committee undertook a wider review of performance over the three-year performance period, in the context of the overall levels of pay, the wider performance of the company, and the experience of shareholders over the three-year period of the plan. While performance over the period, and in particular in 2017, has been strong, we also recognize that although returns have doubled over the past year, there is still room for further improvement and that the company has continued to Scorecard 1 Financial 66.6% 2 3 Strategic imperatives 29.4% Formulaic vesting 96.0% More information Key performance indicators page XX More information page 18. These measures were used under the terms of our previous policy. 1 Financial Strategic imperatives 2 Total formulaic vesting 3 Performance shares – continued REM incur costs associated with Gulf of Mexico oil spill payments. The committee also sought where appropriate to apply principles of the new policy early to awards vesting in respect of 2017 performance. This included, for example, consideration of the more stringent vesting scales adopted in the 2017 policy. In light of these factors and an overall assessment of pay relative to performance, the committee determined that it would be appropriate to exercise downward discretion on this part of the award. It also determined that the vesting for the 2017 award should be reduced from the formulaic outcome of 96% of maximum to 70% of maximum. In addition, consistent with the approach of applying the principles of the 2017 policy to awards vesting in the year, Bob Dudley asked the committee to base his performance shares award on 500% of salary that applies under the terms of the 2017 policy, rather than the 150% of salary that was actually granted in 2015. The committee's discretion and Bob Dudley's request together reduced his performance shares by \$4.0 million (34%). BP Annual Report and Form 20-F 2017/100 2015-17 performance shares Measures Weighting at maximum Threshold performance Maximum performance Performance and outcome Relative total shareholder return 33.3% Third First First S3.3% Cumulative operating cash flow 33.3% \$45.6bn \$61.6bn \$61.9bn S3.3% 66.6% Relative reserves replacement ratio 11.1% Third First Second 8.9% Major project delivery 11.1% 10 14 17 Q1.1% Safety and operational risk: – Process safety tier 1 events – Recordable injury frequency 11.1% Continuous improvement look back 85% of maximum 9.4% 29.4% 96.0% Formulaic vesting: 96% Committee review of context and shareholder experience over three-year period of plan 70% final vesting after committee discretion

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Directors' remuneration report Both Bob Dudley and Brian Gilvary deferred two thirds of their 2014 annual bonus in accordance with the prevailing terms of the deferred bonus plan. The original three-year performance period for this deferred award ended on 31 December 2017. As required by the terms of the discontinued plan, the committee reviewed safety and environmental sustainability performance over this period and sought the input of the safety, ethics and environment assurance committee. This included an assessment of both actual outcomes under safety and sustainability measures and consideration of the long-term performance trend. Over the three-year period 2015-17 safety performance continued to demonstrate progress and improvement overall. The committee also noted the extent to which safety performance had become embedded into the culture of the organization and the degree to which this has supported stronger operational and financial performance. As a sign of their commitment to the long-term interests of the company, and to further align with the shareholder experience, both Bob Dudley and Brian Gilvary have requested that the committee delay the vesting of some of the awards under discontinued plans. In light of this request, the committee has approved the deferral of Bob Dudley's 2014 deferred and matching awards until after his retirement from the group. The vesting of Brian Gilvary's 2014 matching award will also be deferred for a period of two years. The committee will extend the original safety and environmental sustainability performance condition for the same period. Following the committee's review, full vesting of Brian Gilvary's deferred shares in respect of the 2014 deferred bonus was approved. No further matching awards will be granted under the deferred bonus plan following approval of the 2017 remuneration policy by shareholders at the 2017 AGM.

| 2014 deferred bonus vesting – outcome | Name | Shares | Value |
|---------------------------------------|---------------|---------|------------|
| 100% | Bob Dudley | 588,216 | £1,040,269 |
| 100% | Brian Gilvary | 353,152 | £746,200 |

Bob Dudley has voluntarily agreed to defer vesting of these awards until after retirement, therefore the performance period is expected to exceed the minimum term of three years. Discontinued plans: deferred bonus and matching shares 2017 outcomes Bob Dudley participates in the US pension and retirement savings plans described on page 104. In 2017, Bob Dudley's accrued defined benefit pension did not increase. In accordance with the requirements of the UK regulations, the value attributed to this accrued pension in the single figure table on page 95 is therefore zero. In relation to the retirement savings plans, Bob Dudley made contributions in 2017 to the ESP totalling \$27,000. For 2017 the total value of BP matching contributions in respect of Bob Dudley to the ESP and notional matching contributions to the ECSP was \$129,800, 7% of eligible pay. After adding the investment gains within his accumulating unfunded ECSP account (aggregating the unfunded arrangements relating to his overall service with BP and TNK-BP), the amount included in the single figure table on page 95 is \$746,200. Brian Gilvary participates in the UK pension arrangements described on page 104 in common with over 4,500 UK employees employed prior to 2010. In 2017 as a result of his salary increase Brian Gilvary's accrued pension increased, net of inflation, by £9,280. This increase has been reflected in the single figure table on page 95 by multiplying it by a factor of 20 in accordance with the requirements of the UK regulations (giving £185,600). He has exceeded the lifetime allowance under UK pensions legislation and, in accordance with the policy, receives a cash supplement of 35% of base salary, which has been separately identified in the single figure table on page 95. The committee continues to keep under review the increase in the value of pension benefits for individual directors and its alignment to the broader workforce.

- The BP defined benefit (DB) plan remains open for employees in the UK who were employed before 2010 (or before 2014 in the North Sea). The plan provides an inflation linked pension of 1/60th of final salary for each year of service. As of October 2017 over 4,500 active employees were members of the plan.
- Currently over 800 employees have, like Brian Gilvary, elected to stop future service accrual under the DB plan and instead receive a cash allowance of 35% of base pay, reducing to 15% by April 2024. Brian Gilvary receives the same cash allowance as those 800 other employees.

Retirement benefits No systemic issues identified No major incidents Safety culture and values embedded within the global organization Strong safety performance supports efficiency and financial results across the group Conclusions of the safety and sustainability assessment Performance shares – continued Preliminary outcome – 2015-17 performance shares

| Name | Shares awarded | Shares vesting including dividends | Value of vested shares |
|---------------|----------------|------------------------------------|------------------------|
| Bob Dudley | 1,501,770 | 1,172,484 | \$7,787,248 |
| Brian Gilvary | 685,246 | 594,932 | £2,980,609 |

These values are based on estimated vesting levels. As noted above, final vesting will be determined once competitor data is published in respect of relative reserves replacement (RRR). 2014-16 performance shares – final outcome Last year the committee made a preliminary assessment of third place for the relative RRR in the 2014-16 performance shares element. In April 2017 the committee reviewed the results for all comparator companies as published in their annual reports and assessed that BP was in third place relative to other oil majors and that no further adjustment was required. BP Annual Report and Form 20-F 2017 Corporate governance 101

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2018 R017 2016 2015 2014 2018 R017 2016 2015 2014 Bob Dudley Salary increases over the last five years Brian Gilvary
 3.0%3.0% Nil Nil Nil Nil Nil Nil 3.75% 2.0% Directors' remuneration report Salary with effect from AGM Increase Bob
 Dudley \$1,854,000 Nil Brian Gilvary £775,000 2% The committee noted that salary increases for UK and US based employees across the group were
 generally around 3%. The committee has considered the salaries for Bob Dudley and Brian Gilvary and has decided that there will be no increase for 2018
 for Bob Dudley. Brian Gilvary's salary will be increased by 2% to £775,000. Benefits for 2018 will remain broadly unchanged from prior years. Salary
 and benefits For 2018, the bonus measures will again focus on three areas: safety and operational risk, reliable operations and financial performance. This
 approach is intended to provide a balanced assessment of how the business has performed over the course of the year against stated objectives. Targets are
 aligned with the annual plan and strategic and operational priorities for the year. The safety element continues to focus on measures that are robust and
 externally comparable. In addition, the measures linked to reliable operations also require execution of good safety practices. The committee has agreed that
 the upstream measure for 'reliable operations' be amended from 'upstream operating efficiency' to 'BP-operated upstream plant reliability'. This latter measure is
 more comparable with the equivalent metric disclosed for the downstream. Although the detail of the targets is currently commercially sensitive, the
 committee intends to continue to provide retrospective disclosure following the year end. The targets have been agreed by the committee after consultation
 on the safety targets with the SEEAC and on the financial targets with the audit committee. One of the challenges faced in a commodity industry is to
 provide a fair assessment of underlying performance, and therefore changes in plan conditions (including oil and gas prices and refining margins) are
 considered when reviewing financial outcomes. The committee retains discretion to review outcomes in the context of overall performance. Awards will
 be subject to malus and clawback provisions as described in the 2017 policy. The maximum bonus opportunity is 225% of salary for a maximum bonus
 score of 2.0. In accordance with the 2017 policy, the bonus payable for performance which meets the annual plan (i.e. a bonus scorecard of 1.0 out of a
 maximum of 2.0) is half of maximum. For any bonus earned, 50% will be delivered in cash and 50% must be deferred into shares that will vest after three
 years. Annual bonus Recordable injury 10% frequency Tier 1 process safety events 10% Operating cash flow (excluding 20% Gulf of Mexico oil
 spill payments) Underlying replacement 20% cost profit Upstream unit production costs 10% Safety 20% 1 Reliable operations 30% 2
 Financial performance 50% 3 Element Measures for 2018 annual bonus Measures include Measures include Measures include
 Weighting for 2018 Weighting for 2018 Weighting for 2018 BP-operated upstream 15% plant reliability Downstream refining 15%
 availability (Solomon Associates' operational availability) Implementation of the policy for 2018 BP Annual Report and Form 20-F 2017102

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Directors' remuneration report Under the 2017 policy the measures for the performance shares focus on shareholder value, capital discipline and future growth. Shareholder value The TSR element is measured on a relative basis in common currency against the oil majors: Chevron, ExxonMobil, Shell and Total. The committee continues to believe that the current comparator group remains appropriate as it is used for benchmarking across a range of activities in other parts of the group. There will be no vesting of this element if BP's TSR is positioned below third place in the group. Capital discipline ROACE is calculated by dividing the underlying replacement cost profit (after adding back net interest) by average capital employed excluding cash and goodwill (for full definition, see the Glossary on page 289). ROACE is measured based on the actual price environment for each of the years in question; there will be no adjustments for changes to plan conditions. For the 2017-19 performance shares, this assessment will be based on the final year of the three-year period. The committee has reviewed this methodology in the light of engagement with shareholders and broader FTSE practice and has decided to move progressively to a determination of ROACE on a three-year average rather than being based on the final year. For the 2018-20 performance shares, the calculation of ROACE will be averaged over the last two years and for 2019-21 performance shares, the intention is that it will be averaged over the full three-year period. Targets for TSR and ROACE measures for 2018 – determining 80% of the performance shares available – are set out below at the start of the assessment period. Future growth Measures for the strategic element are directly focused on delivery of the company's long-term strategy, positioning the portfolio for resilience and future growth. We will be following the implementation of our strategy through the four measures relating to the strategic priorities set out below. The committee has also sought input from the board regarding the specific measures. Details of the strategic priorities targets – determining 20% of the performance shares available – are commercially sensitive and are not included in this report. However, the committee intends to provide detailed retrospective disclosure after the end of the performance period so that shareholders can understand the basis of payment. The board regularly reviews progress on the strategic priorities throughout the year and BP's quarterly results announcement includes updates on the group's strategic progress. Performance shares 25% of element Third out of five 100% of element Q1.5% return on average capital employed 0% of element V% return on average capital employed 100% of element First place Relative TSR versus oil majorsa 50% 1 Return on average capital employedb 30% 2 Strategic progress 20% 3 Element Measures for 2018 performance shares Threshold vesting Maximum vesting • Growing gas and advantaged oil in the upstream • Market led growth in the downstream • Venturing and low carbon across multiple fronts • Gas, power and renewables trading and marketing growth a Nil vesting for fourth and fifth place. Vesting of 80% for second place. b Based on the average of performance over 2019 and 2020. There will be straight-line vesting for performance between the threshold and maximum vesting level. Adjustments may be required in certain circumstances (e.g. to reflect changes in accounting standards). Operation of the performance share plan and the underpin Prior to approving vesting outcomes, the committee will additionally consider the broader performance of the business including absolute TSR performance, together with safety and environmental factors (including consideration of issues around carbon and climate change) over the three-year period as part of an underpin. The underpin will be applied after the formulaic outcome for the performance shares but before the final vesting outcome has been determined. In looking at environmental factors, the committee will consider the group's progress on issues such as reducing emissions, improving our products and creating low carbon businesses. In line with our new policy, share awards will be made at the level of U00% of salary for Bob Dudley and 450% of salary for Brian Gilvary. Performance will be measured over three years, with any vested shares being subject to a mandatory holding period for a further three years. Awards will be subject to malus and clawback provisions as set out in the policy. BP Annual Report and Form 20-F 2017 103 C

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Both executive directors exceed the share ownership requirements of five times salary. It is expected that Bob Dudley and Brian Gilvary will maintain a shareholding of at least 250% of salary for two years following retirement. Shareholding requirements Bob Dudley Bob Dudley is provided with pension benefits and retirement savings through a combination of tax-qualified and non-qualified benefit plans, consistent with applicable US tax regulations. The BP supplemental executive retirement benefit plan (SERB) is a non-qualified pension plan which provides a pension of 1.3% of final average earnings (as defined in plan rules) for each year of service, less benefits paid under all other BP (US) tax-qualified and non-qualified pension plans. Final average earnings include base salary and annual bonus. Service, including service with TNK-BP, is limited to 37 years. Bob Dudley completed 37 years of service in September 2016 and therefore will not receive any further service accrual under these arrangements. There will be no additional payment in lieu of any further service accrual. The benefit payable under the SERB is unreduced at age 60 or above. Bob Dudley is also a member of other tax-qualified and non-qualified pension plans. However, the benefits from those plans are offset against the SERB benefit and so his benefit entitlement is determined by his participation in the SERB. The BP Employee Savings Plan (ESP) is a US tax-qualified section 401(k) plan to which both Bob Dudley and BP contribute. BP matches contributions by Bob Dudley 1:1 up to 7% of eligible pay up to an IRS limit. The BP Excess Compensation (Savings) Plan (ECSP) is a non-qualified retirement savings plan under which BP provides a notional match in respect of eligible pay that exceeds the IRS limit. In common with other participants, Bob Dudley does not contribute to the ECSP. From 2017 onwards, for the purposes of both plans, eligible pay for Bob Dudley is base salary only. Under both tax-qualified and non-qualified savings plans, Bob Dudley is entitled to make investment elections, involving an investment in the relevant fund in the case of the ESP and a notional investment (the return on which would be delivered by BP under its unfunded commitment) in the case of the ECSP. Although investment returns on the ECSP relate to contributions made in previous years, UK disclosure rules for the single figure require these returns to be included in the single figure for the year. As Bob Dudley has a significant proportion of his notional ECSP investment in BP shares, an increase in the BP share price results in a contribution to the single figure through this component. Benefits payable under the ECSP are unfunded and therefore paid from corporate assets. Benefits are generally paid as a lump sum, with any pension benefit being converted to a lump sum equivalent. Retirement benefits Brian Gilvary Brian Gilvary participates in a UK final salary pension plan, the BP Pension Scheme (BPPS), along with over 4,500 other employees in service prior to 1 April 2011. The BPPS is closed to new hires but for existing participants the plan continues to provide a pension of one sixtieth of final base salary for each year of service, up to a maximum of two thirds of final base salary, and a dependant's benefit of two thirds of the member's pension. BPPS participants can elect to stop future service pension accrual and instead receive a cash allowance. On 1 April 2011 Brian Gilvary elected to stop future service pension accrual and receive the cash allowance of 55% of base salary. It has been agreed for all participants who have elected to receive the cash allowance, including Brian Gilvary, that a transition will take effect from April 2021 when the level of cash allowance will progressively reduce to 15% of base salary by 2024. Pension benefits in excess of the individual lifetime allowance set by legislation are provided to Brian Gilvary via an unapproved, unfunded pension arrangement provided directly by the company. The rules of the BPPS were amended in 2006 to introduce a normal retirement age of 65, but in common with other BPPS participants in service on 30 November 2006, Brian Gilvary has a normal retirement age of 60. If Brian Gilvary were to retire between age 55 and 60, then subject to the consent of the committee, he would be entitled to an immediate pension, with a reduction (currently 3%) for each year before normal retirement age in respect of the benefit that relates to service since Q December 2006 and no reduction in respect of the remainder of his benefit. Irrespective of this, on leaving in circumstances of total incapacity, an immediate unreduced pension would be payable as from his leaving date. Directors' remuneration report BP Annual Report and Form 20-F 2017/104

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Stewardship The committee places significant emphasis on executive directors having material interests in the shares of the company. Such shareholding not only provides direct alignment with the experience of shareholders, but also encourages a longer-term focus when considering the performance of BP. Executive directors are required to build a personal shareholding of five times salary within five years of their appointment. Both executive directors significantly exceed the minimum holding required. This ensures they are subject to any fluctuation in the share price and the wider shareholder experience. Post-retirement share ownership interests Given the long-term nature of the group's operations, the committee sees the merits of ensuring that executives have performance alignment beyond the timeframe of existing incentive plans. The executive directors have taken a number of steps in this respect. As reported last year, the current executive directors have indicated to the committee that they expect to maintain a shareholding of at least R50% of salary for two years following retirement. As a sign of their commitment to the long-term interests of the company, and to further align with the shareholder experience, both executive directors have requested that the committee delay the vesting of some of the awards under discontinued plans. Bob Dudley has voluntarily opted to delay the vesting of all outstanding deferred bonus and matching shares in respect of his 2014 and 2015 bonus (representing a total interest over 1,691,784 ordinary shares), which were originally due to vest in 2018 and 2019 respectively, so that vesting is delayed until after retirement. In a similar way, the vesting of Brian Gilvary's 2014 matching award will also be deferred for a period of two years. As per the original terms, the committee will extend the safety and environmental sustainability performance condition for the same period. These factors significantly extend the time horizons for both executive directors. The committee fully endorses the steps taken by both executive directors as they clearly demonstrate a continued commitment to the long-term stewardship of the group. Directors' shareholdings The table below shows the status of each of the executive directors in developing the required level of share ownership. These figures include the value as at 14 March 2018 of the directors' interests shown below excluding the assumed vesting of the 2015-17 performance shares.

| Current directors | Appointment date | Value of current shareholding | % of policy achieved |
|-------------------|------------------|-------------------------------|----------------------|
| Bob Dudley | October 2010 | \$19,860,588 | 214 |
| Brian Gilvary | January 2012 | £8,483,077 | 223 |

The figures below indicate and include all beneficial and non-beneficial interests of each executive director of the company in shares of BP (or calculated equivalents) that have been disclosed to the company. Current directors

| Ordinary shares or equivalents at 1 Jan 2017 | Ordinary shares or equivalents at 31 Dec 2017 | Changes from 31 Dec 2017 to 30 Mar 2018 | Ordinary shares or equivalents total at 30 Mar 2018 |
|--|---|---|---|
| Bob Dudley | 2,509,500 | 3,065,520 | 174 3,065,694 |
| Brian Gilvary | 1,419,263 | 1,709,243 | 116,056 1,825,299 |

a Held as ADSs. The following table shows both the performance shares and the deferred bonus element awarded under the executive directors' incentive plan (EDIP) and yet to vest. These figures represent the maximum possible vesting levels. The actual number of shares/ADSs that vest will depend on the extent to which applicable performance conditions have been satisfied. Current directors

| Ordinary shares or equivalents at 30 Jan 2017 | Ordinary shares or equivalents at 31 Dec 2017 | Changes from 31 Dec 2017 to 30 Mar 2018 | Ordinary shares or equivalents total at 30 Mar 2018 |
|---|---|---|---|
| Bob Dudley | 6,607,314 | 6,870,048 | 0 6,870,048 |
| Brian Gilvary | 3,259,891 | 3,329,274 | (176,576) 3,152,698 |

a Held as ADSs. At 14 March 2018, the following directors held options under the BP group share plan schemes over ordinary shares or their calculated equivalent set out below. None of these are subject to performance conditions. Additional details regarding these plans can be found on page 109. Current director Share options

| Director | Share options |
|---------------|---------------|
| Brian Gilvary | 503,103 |

No director has any interest in the preference shares or debentures of the company or in the shares or loan stock of any subsidiary company. There are no directors or other members of senior management who own more than 1% of the ordinary shares in issue. At 14 March 2018, all directors and other members of senior management as a group held interests of 15,896,179 ordinary shares or their calculated equivalents, 1,757,019 restricted share units (with or without conditions) or their calculated equivalents, 10,022,746 performance shares or their calculated equivalents and 5,012,307 options over ordinary shares or their calculated equivalents under the BP group share option schemes. Senior management comprises members of the executive team. See page 66 for further information. History of CEO remuneration

| Year | CEO | Total remuneration thousanda | Annual bonus % of maximum | Performance shares vesting % of maximum |
|-------|---------|------------------------------|---------------------------|---|
| 2009 | Hayward | £6,753 | 89b | 17.5 |
| 2010c | Hayward | £3,890 | 0 | 0 |
| 2011 | Dudley | \$8,057 | 0 | 0 |
| 2012 | Dudley | \$8,439 | 67 | 16.7 |
| 2013 | Dudley | \$9,609 | 65 | 0 |
| 2014 | Dudley | \$15,086 | 88 | 45.5 |
| 2015 | Dudley | \$19,376 | 100 | 74.3 |
| 2016 | Dudley | \$11,904 | 61 | 40 |
| 2017 | Dudley | \$13,443 | 71.5 | 70 |

a Total remuneration figures include pension. The total figure is also affected by share vesting outcomes and these amounts represent the actual outcome for the periods up to 2011 or the adjusted outcome in subsequent years where a preliminary assessment of the performance for EDIP was made. For 2017, the preliminary assessment has been reflected. b 2009 annual bonus did not have an absolute maximum and so is shown as a percentage of the maximum established in 2010. c 2010 figures show full year total remuneration for both Tony Hayward and Bob Dudley, although Bob Dudley did not become CEO until October 2010. Directors' remuneration report BP Annual Report and Form 20-F 2017 105 C Corporate governance

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Directors' remuneration report R0092008 2010 2011 2012 2013 2014 2015 2016 2017 Value of hypothetical £100 holding in FTSE 100 BPHistorical TSR performance £50 £100 £150 £200 £250 This graph shows the growth in value of a hypothetical £100 holding in BP p.l.c. ordinary shares over nine years, relative to a hypothetical £100 holding in the FTSE 100 Index of which the company is a constituent. Further information Independence and advice The board considers all committee members to be independent with no personal financial interest, other than as shareholders, in the committee's decisions. Further detail on the activities of the committee, including activities during the year, advice received and shareholder engagement is set out in the remuneration committee report on page 86. During 2017 David Jackson, the company secretary, who is employed by the company and reports to the chairman of the board, acted as secretary to the remuneration committee. Deloitte LLP acted as independent adviser to the committee during the year until September 2017, when it stepped down as part of the transition process for its role as BP's statutory auditor for the financial year 2018. Following a competitive tender process, the committee appointed PwC as its independent adviser from September 2017. PwC is a member of the Remuneration Consulting Group and, as such, operates under the code of conduct in relation to executive remuneration consulting in the UK. The committee is satisfied that the advice received is objective and independent. Freshfields Bruckhaus Deringer LLP provided legal advice on specific compliance matters to the committee. Deloitte, PwC and Freshfields provide other advice in their respective areas to the group. During the year, Deloitte also provided BP with services including consulting on HR and upstream matters and PwC provided BP with services including subsidiary company secretarial support. Total fees or other charges (based on an hourly rate) for the provision of remuneration advice to the committee in 2017 (save in respect of legal advice) are as follows: Deloitte £164,280 PwC £62,213 Shareholder engagement As set out in last year's report, during 2017 we had extensive dialogue with many of our largest shareholders as well as representative bodies on remuneration matters, particularly in the run-up to the AGM. The table below shows the votes on the report for the last three years. AGM directors' remuneration report vote results Year % vote 'for' % vote 'against' Votes withheld 2017 97.05% 2.95% 63,453,383 2016 40.7% 59.3% 464,259,340 2015 88.8% 11.2% 305,297,190 The remuneration policy was approved by shareholders at the 2017 AGM on 17 May 2017. The votes on the policy are shown below. 2017 AGM directors' remuneration policy vote results Year % vote 'for' % vote 'against' Votes withheld 2017 97.28% 2.72% 36,563,886 External appointments The board supports executive directors taking up appointments outside the company to broaden their knowledge and experience. Each executive director is permitted to accept one non-executive appointment, from which they may retain any fee. External appointments are subject to agreement by the chairman and reported to the board. Any external appointment must not conflict with a director's duties and commitments to BP. Details of appointments as non-executive directors during 2017 are shown below. Director Appointee company Additional position held at appointee company Total fees Bob Dudley Rosneft Director 0 Brian Gilvary L'Air Liquide Director Euros 64,310 a Bob Dudley holds this appointment as a result of the company's shareholding in Rosneft.

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This section of the directors' remuneration report completes the directors' annual report on remuneration with details for the chairman and non-executive directors (NEDs). The board's remuneration policy for the NEDs was approved at the 2017 AGM. This policy was implemented during 2017. There has been no variance of the fees or allowances for the chairman and the NEDs during 2017. Chairman The fee structure for the chairman, which has been in place since Q May 2013, is £785,000 per year. He is not eligible for committee chairmanship and membership fees or intercontinental travel allowance. He has the use of a fully maintained office for company business, a car and driver, and security advice in London. He receives a contribution to an office and secretarial support as appropriate to his needs in Sweden. The table below shows the fees paid for the chairman for the year ended 31 December 2017.

2017 remuneration (audited) £ thousand Fees Benefits Total 2017 2016 2017 2016 2017 2016 Carl-Henric Svanberg 785 785 35 58 820 843 a Benefits include travel and other expenses relating to attendance at board and other meetings. Amounts disclosed have been grossed up using a tax rate of 45%, where relevant, as an estimation of tax due. Chairman's interests The figures below include all the beneficial and non-beneficial interests of the chairman in shares of BP (or calculated equivalents) that have been disclosed under the DTRs as at the applicable dates. The chairman's holdings represented as a percentage against policy achieved are 1,229%. Chairman Ordinary shares or equivalents at 1 Jan 2017 Ordinary shares or equivalents at 31 Dec 2017 Change from 31 Dec 2017 to 14 Mar 2018 Ordinary shares or equivalents total at 14 Mar 2018

Carl-Henric Svanberg 2,076,695 2,076,695 - 2,076,695 Non-executive directors Directors' remuneration report Non-executive director interests The figures below indicate and include all the beneficial and non-beneficial interests of each non-executive director of the company in shares of BP (or calculated equivalents) that have been disclosed to the company under the DTRs as at the applicable dates. Ordinary shares or equivalents at 1 Jan 2017 Ordinary shares or equivalents at 31 Dec 2017 Change from 31 Dec 2017 to 14 Mar 2018 Ordinary shares or equivalents total at 14 Mar 2018

Value of current shareholding % of policy achieved Nils Andersen 47,855 125,000 - 125,000 £580,938 645 Paul Anderson 30,000b 30,000b - 30,000b \$194,350 168 Alan Boeckmann 44,772b 44,772b - 44,772b \$290,048 250 Admiral Frank Bowman 24,864b 24,864b - 24,864b \$161,077 139 Cynthia Carrola 10,500b - - - - Ian Davis 25,735 47,500 - 47,500 £220,756 184 Professor Dame Ann Dowling 22,320 22,320 - 22,320 £103,732 115 Melody Meyerc - 20,646b - 20,646b \$133,752 115 Brendan Nelson 11,040 11,040 - 11,040 £51,308 57 Paula Rosput Reynolds 52,200b 58,200b 15,000 73,200b \$474,214 409 Sir John Sawers 13,528 14,198 - 14,198 £65,985 73 Andrew Shilstona 15,000 - - - - a Resigned on 17 May 2017. b Held as ADSs. c Appointed on 17 May 2017.

Past directors Sir Ian Prosser (who retired as a non-executive director of BP in April 2010) was appointed as a director and non-executive chairman of BP Pension Trustees Limited on 1 October 2010. During 2017, he received £100,000 for this role. Non-executive directors Fee structure The table below shows the fee structure for non-executive directors: Fees £ thousand Senior independent director a 120 Board member 90 Audit, geopolitical, remuneration and SEEA committees chairmanship fees b 30 Committee membership fees c 20 Intercontinental travel allowance 5 a The senior independent director is eligible for committee chairmanship fees and intercontinental travel allowance plus any committee membership fees. b Committee chairmen do not receive an additional membership fee for the committee they chair. c For members of the audit, geopolitical, SEEA and remuneration committees.

2017 remuneration (audited) £ thousand Fees Benefits Total 2017 2016 2017 2016 2017 2016 Nils Andersen 115 23 17 6 132 29 Paul Anderson 155 165 27 32 182 197 Alan Boeckmann 165 168 11 17 176 185 Admiral Frank Bowman 155 162 15 14 170 176 Cynthia Carrollb 54 140 36 28 90 168 Ian Davis 154 136 2 2 156 138 Professor Dame Ann Dowlingc 145 150 5 2 150 152 Melody Meyerd 86 - 23 - 109 - Brendan Nelson 138 130 14 30 152 160 Paula Rosput Reynolds 140 140 8 17 148 157 Sir John Sawers 145 148 5 19 150 167 Andrew Shilstone 75 190 1 5 76 195 a Benefits include travel and other expenses relating to the attendance at board and other meetings. Amounts disclosed have been grossed up using a tax rate of 45%, where relevant, as an estimation of tax due. b Resigned on 17 May 2017. c In addition, Professor Dame Ann Dowling received £25,000 for chairing and being a member of the BP technology advisory council. d Appointed on 17 May 2017. BP Annual Report and Form 20-F 2017 107

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Directors' remuneration report Executive directors interests Deferred shares (audited)a Deferred share element interests Interests vested in 2017 and 2018 Bonus year Type Performance period Date of award of deferred shares Potential maximum deferred shares Number of ordinary shares vested Vesting date £ Face value of the award At 1 Jan R017 Awarded R017 At 31 Dec R017 Bob Dudleyb 2013 Comp 2014-2016 12 Feb 2014 149,628 -- 183,732c 24 Feb 2017 -- Mat 2014-2016 12 Feb 2014 149,628 -- 183,732c 24 Feb 2017 -- 2014 Comp 2015-2017d 11 Feb 2015 147,054 -- 147,054 -- 655,861 Vol 2015-2017d 11 Feb 2015 147,054 -- 147,054 -- 655,861 Mat 2015-2017d 11 Feb 2015 294,108 -- 294,108 -- 1,311,722 2015f Comp 2016-2018d 4 Mar 2016 275,892 -- 275,892 -- 1,015,283 Vol 2016-2018d 4 Mar 2016 275,892 -- 275,892 -- 1,015,283 Mat 2016-2018d 4 Mar 2016 551,784 -- 551,784 -- 2,030,565 2016g Comp 2017-2019 19 May 2017 -- 147,642 147,642 -- 697,092 Mat 2017-2019d 19 May 2017 -- 147,642 147,642 -- 697,092 Brian Gilvary 2013 Comp 2014-2016 12 Feb 2014 96,653 -- 119,157c 24 Feb 2017 -- Mat 2014-2016 12 Feb 2014 96,653 -- 119,157c 24 Feb 2017 -- 2014 Comp 2015-2017 11 Feb 2015 88,288 -- 88,288 109,502c 20 Feb 2018 -- Vol 2015-2017 11 Feb 2015 88,288 -- 88,288 109,502c 20 Feb 2018 -- Mat 2015-2017e 11 Feb 2015 176,576 -- 176,576 -- 787,529 2015f Comp 2016-2018 4 Mar 2016 159,021 -- 159,021 -- 585,197 Vol 2016-2018 4 Mar 2016 159,021 -- 159,021 -- 585,197 Mat 2016-2018 4 Mar 2016 318,042 -- 318,042 -- 1,170,395 2016g Comp 2017-2019 19 May 2017 -- 73,070 73,070 -- 345,000 Mat 2017-2019h 19 May 2017 -- 73,070 73,070 -- 345,000 Former executive directors Iain Conn 2013 Comp 2014-2016 12 Feb 2014 100,563 -- 123,977c 24 Feb 2017 -- Mat 2014-2016 12 Feb 2014 33,521i -- 41,325c 24 Feb 2017 -- Comp = Compulsory. Vol = Voluntary. Mat = Matching. a Since 2010, vesting of the deferred shares has been subject to a safety and environmental sustainability hurdle, and this will continue. If the committee assesses that there has been a material deterioration in safety and environmental performance, or there have been major incidents, either of which reveal underlying weaknesses in safety and environmental management, then it may conclude that shares should vest only in part, or not at all. In reaching its conclusion, the committee will obtain advice from the SEEAC. There is no identified minimum vesting threshold level. b Bob Dudley received awards in the form of ADSs. The above numbers reflect calculated equivalents in ordinary shares. One ADS is equivalent to six ordinary shares. c Represents vestings of shares made at the end of the relevant performance period based on performance achieved under rules of the plan and includes reinvested dividends on the shares vested. The market price of each share used to determine the total value at vesting on the vesting dates of 24 February 2017 and 20 February 2018 were £4.47 and £4.75 respectively and for ADSs on 24 February 2017 was \$33.50. These totals include the additional accrual of dividends which vested on 19 May 2017 and 2 August 2017. d Bob Dudley has voluntarily agreed to defer vesting of these awards until after retirement, therefore the performance period is expected to exceed the minimum term of three years. The market price of ordinary shares used to determine the total value at vesting on 11 February 2015 was £4.46. e Brian Gilvary has voluntarily agreed to defer vesting of these awards for five years with a further one year retention period. f The face value has been calculated using the market price of ordinary shares on 4 March 2016 of £3.68. g The market price at closing of ordinary shares on 19 May 2017 was £4.72 and for ADSs was \$36.94. The sterling value has been used to calculate the face value. h Brian Gilvary has voluntarily agreed to defer vesting of these awards until the later of three years post award or one year post retirement, therefore the performance period is expected to exceed the minimum term of three years. i All matching shares have been pro-rated to reflect actual service during the performance period and these figures have been used to calculate the face value. 108 BP Annual Report and Form 20-F 2017

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Directors' remuneration report Performance shares (audited) Share element interests Interests vested in 2017 and 2018 Performance period Date of award of performance shares Potential maximum performance sharesa Number of ordinary shares vested Vesting date £ Face value of the award At 1 Jan R017 Awarded R017 At 31 Dec R017 Bob Dudleyb 2014-2016 12 Feb 2014 1,304,922 -- 653,538c 19 May 2017d -- 2015-2017 11 Feb 2015 1,501,770 -- 1,365,240e 1,172,484 May 2018 -- 2016-2018f 4 Mar 2016 1,809,582 -- 1,645,074e -- 6,053,872 2017-2019f 19 May 2017 -- 1,571,628 1,428,750e -- 6,743,700 Brian Gilvary 2014-2016 12 Feb 2014 605,544 -- 308,286c 19 May 2017d -- 2015-2017 11 Feb 2015 685,246 -- 685,246 594,932 May 2018 -- 2016-2018f 4 Mar 2016 786,559 -- 786,559 -- 2,894,537 2017-2019f 19 May 2017 -- 722,093 722,093 -- 3,409,362 Former executive directors Iain Conn 2014-2016 12 Feb 2014 220,043 -- 112,025c g 19 May 2017d -- a For awards under the 2014-2016, 2015-2017 and 2016-2018 plans, performance conditions are measured one third on TSR relative to ExxonMobil, Shell, Total and Chevron; one third on operating cash flow; and one third on a balanced scorecard of strategic imperatives. There is no identified overall minimum vesting threshold level but to comply with UK regulations a value of T4.4%, which is conditional on the TSR, operating cash flow, each of the strategic imperatives and strategic progress reaching the minimum threshold, has been calculated. For awards under the 2017-2019 plan, performance conditions are measured 50% on TSR relative to ExxonMobil, Shell, Total and Chevron over three years; 30% on ROACE based on performance in 2019 and R0% on strategic progress assessed over the performance period. Each performance period ends on 31 December of the third year. b Bob Dudley received awards in the form of ADSs. The above numbers reflect calculated equivalents in ordinary shares. One ADS is equivalent to six ordinary shares. c Represents vestings of shares made at the end of the relevant performance period based on performance achieved under rules of the plan and includes reinvested dividends on the shares vested. The market price of each share at the vesting date of 19 May 2017 was £4.72 and for ADSs was \$36.94. For the assumed vestings dated May 2018 a price of £5.01 per ordinary share and \$39.85 per ADS has been used. These are the average prices from the fourth quarter of 2017. These totals include the additional accrual of dividends which vested on 2 August 2017. d The 2014-2016 award vested on 19 May 2017, which resulted in an increase in value at vesting of £24,644 for Iain Conn. Details for Bob Dudley and Brian Gilvary can be found in the single figure table on page 95. e Bob Dudley has requested that the EDIP performance shares vestings in respect of the performance periods 2015-2017 and 2016-2018 are based on the 500% maximum annual award level which applies under the 2017 directors' remuneration policy, rather than the 550% maximum annual award level which applies under the 2014 directors' remuneration policy. f The market price at closing of ordinary shares on 4 March 2016 was £3.68 and for ADSs was \$31.15 and on 19 May 2017 was £4.72 and for ADSs was \$36.94. g Potential maximum of performance shares element has been pro-rated to reflect actual service during the performance period. Share interests in share options plans (audited) Option type At 1 Jan 2017 Granted Exercised At 31 Dec R017 Option price Market price at date of exercise Date from which first exercisable Expiry date Brian Gilvary BP 2011 500,000 -- 500,000 £3.72 -- 07 Sep 2014 07 Sep 2021 SAYE 3,103 -- 3,103 £2.90 -- 01 Sep 2019 28 Feb 2020 The closing market prices of an ordinary share and of an ADS on 29 December 2017 were £5.227 and \$42.03 respectively. During 2017 the highest market prices were £5.247 and \$42.03 respectively and the lowest market prices were £4.3975 and \$33.31 respectively. BP 2011 = BP 2011 plan. These options were granted to Brian Gilvary prior to his appointment as a director and are not subject to performance conditions. BP Annual Report and Form 20-F 2017 109 C Corporate governance

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Directors' remuneration report Remuneration policy table – executive directors A summary of the remuneration policy approved by shareholders at the 2017 AGM is set out below. For the full remuneration policy, please refer to the 2016 Directors' remuneration report at bp.com/remuneration. Salary and benefits To provide fixed remuneration to reflect the scale and complexity of both the business and the role, and to be competitive with the external market. Salary • Salary levels take into account the nature of the role, performance of the business and the individual, market positioning and pay conditions in the wider BP group. When setting salaries, the committee considers practice in other oil and gas majors as well as European and US companies of a similar size, geographic spread and business dynamic to BP. • Salaries are normally set in the home currency of the executive director and are reviewed annually. They may be reviewed at other times where appropriate, for example following a major role change. • Salary levels are specific to the role and individual and therefore there is no maximum salary under the policy. However, when reviewing salaries for executive directors, the committee will consider salary increases for the most senior management and for employees in relevant countries. Percentage increases for executive directors will not exceed that of the broader employee population, other than in specific circumstances identified by the committee (e.g. in response to a substantial change in responsibilities). • Following the 2018 AGM, the annual salaries for the executive directors will be: – Group chief executive – Bob Dudley: \$1,854,000. – Chief financial officer – Brian Gilvary: £775,000. Benefits • The committee expects to maintain benefits at the current level. • Executive directors are entitled to receive those benefits available to all BP employees generally, such as participation in all-employee share plans, sickness pay, relocation assistance and maternity pay. Benefits are not pensionable. • Executive directors may receive other benefits that are judged to be cost effective and appropriate in terms of the individual's role, time and/or security. These include car-related benefits or cash in lieu, driver, security, assistance with tax return preparation, insurance and medical benefits. The company may meet any tax charges arising on business-related benefits provided to directors, for example security. • The taxable value of benefits provided may fluctuate during the period of this policy, depending on the cost of provision and a director's personal circumstances. Performance framework • Not applicable Annual bonus To provide variable remuneration dependent on performance against annual financial, operational and safety measures. 50% of the bonus is paid in cash and 50% is mandatorily deferred and held in BP shares for three years to reinforce the long-term nature of the business and the importance of sustainability. • The bonus is based on performance against annual measures and targets set at the start of the year, evaluated over the financial year and assessed following the year end. • Typically the annual bonus earned would be 50% of the maximum available for delivery of performance in line with the annual plan. The level of bonus payable may vary depending on the nature of the performance measure and level of target set. • Executive directors may earn a maximum annual bonus (including any deferral) of up to 225% of salary for stretching performance against the objectives set for the year. The committee intends to set demanding requirements for maximum payment. • 50% of the bonus earned is required to be deferred into BP shares for three years. Dividends (or equivalents, including the value of any reinvestment) may accrue in respect of any deferred shares. • Awards are subject to malus and clawback provisions as described in policy, see bp.com/remuneration. Performance framework • The committee determines specific measures, weightings and targets each year to reflect the priorities in the annual plan, which is designed to deliver the group's strategy and is approved by the board. • Measures will typically include a balance of financial, operational and safety measures. Details of the measures will be reported in advance each year in the annual report on remuneration. The committee intends to disclose targets for the annual bonus retrospectively. Purpose Operation and opportunity Purpose Operation and opportunity BP Annual Report and Form 20-F 2017/18

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Directors' remuneration report Performance shares Purpose To link the largest part of remuneration opportunity with the long-term performance of the business. The outcome varies with performance against measures linked directly to strategic priorities. Operation and opportunity • Annual awards of shares will vest based on performance relative to measures and targets that reflect the delivery of BP's strategy. Performance will normally be measured over a period of at least three years. • The maximum annual award level for the group chief executive will be 500% of salary and 450% of salary for the chief financial officer. • Performance shares will only vest to the extent that performance targets are met. The level of vesting for performance will depend on the stretch of the objective set, but the threshold level would normally not be expected to exceed 25% of the maximum opportunity for the relevant element. • Once performance has been measured, a proportion of the shares that will vest are subject to a holding period. The combined length of the performance and holding periods will be normally six years. • Dividends (or equivalents, including the value of reinvestment) may accrue in respect of vested shares. • Awards are subject to malus and clawback provisions. See bp.com/remuneration. Performance framework • Performance shares may vest based on a combination of total shareholder return, financial and strategic measures. • For 2018 awards, the measures and weightings will be: – total shareholder return relative to oil and gas majors (50%) – return on average capital employed (30%) – strategic progress (20%) • Details of 2018 targets relating to the total shareholder return and return on average capital employed measures are outlined in the remuneration report. Details relating to strategic progress will be disclosed retrospectively. • Prior to granting each award the committee will review the measures, weightings and targets to ensure they remain focused on delivering the strategy and are in the interests of shareholders. • At least 40% of any award will be subject to measures linked to shareholder returns and the proportion linked to strategic progress will not exceed 30%. The committee would consult appropriately with major shareholders regarding any material changes to the measures. Retirement benefits To recognize competitive practice in home country. Operation and opportunity • Executive directors normally participate in the company retirement plans that operate in their home country. • Senior executives in BP have generally been employees of the group for a number of years. They often remain participants in long-standing arrangements in which other group employees continue to participate, but which are no longer offered to new employees. The maximum opportunity will vary depending on the terms of these arrangements. • UK participants may remain members of the company's defined benefit plan. In common with other employees in this plan, they may choose to receive up to 35% of salary in lieu as a cash supplement but do not receive further service accrual under this plan. The level of this allowance is expected to reduce in future, in line with the proposed reduction for other UK employees who participate in this arrangement. • US executive directors participate in long-standing plans of Amoco and Arco and other BP defined benefit and retirement savings plans for US employees. • For future appointments, the committee will carefully review any retirement benefits to be granted to a new director. This will take account of retirement policies across the wider group, any arrangements currently in place, local market practice and individual circumstances. The committee will consider retirement benefits in the context of the overall approach to remuneration. Performance framework • Retirement benefits in the UK are not directly linked to performance. Reflecting local market practice, legacy arrangements in the US may reference bonuses when determining the benefit level. Shareholding requirements To provide alignment between the interests of executive directors and our other shareholders. Operation and opportunity • An executive director is expected to build up and maintain a minimum shareholding of five times their base salary within five years of their appointment. Performance framework • Not applicable. Purpose Purpose BP Annual Report and Form 20-F 2017 111 C Corporate governance

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Directors' remuneration report Remuneration policy table – non-executive directors The maximum fees for non-executive directors are set in accordance with the Articles of Association. Non-executive chairman Fees Approach Remuneration is in the form of cash fees, payable monthly. The level and structure of the chairman's remuneration will primarily be compared against UK best practice. Operation and opportunity The quantum and structure of the non-executive chairman's remuneration is reviewed annually by the remuneration committee, which makes a recommendation to the board. Benefits and expenses Approach The chairman is provided with support and reasonable travelling expenses. Operation and opportunity The chairman is provided with an office and full time secretarial and administrative support in London and a contribution to an office and secretarial support in his home country as appropriate. A car and the use of a driver is provided in London, together with security assistance. All reasonable travelling and other expenses (including any relevant tax) incurred in carrying out his duties is reimbursed. Non-executive directors Fees Approach Remuneration is in the form of cash fees, payable monthly. Remuneration practice is consistent with recognized best practice standards for non-executive directors' remuneration and, as a UK-listed company, the level and structure of non-executive directors' remuneration will primarily be compared against UK best practice. Additional fees may be payable to reflect additional board responsibilities, for example, committee chairmanship and membership and for the role of senior independent director. Operation and opportunity The level and structure of non-executive directors' remuneration is reviewed by the chairman, the GCE and the company secretary who make a recommendation to the board. Non-executive directors do not vote on their own remuneration. Remuneration for non-executive directors is reviewed annually. Other fees and benefits Intercontinental allowance Approach Non-executive directors receive an allowance to reflect the global nature of the company's business. The intercontinental travel allowance is payable for the purpose of attending board or committee meetings or site visits. Operation and opportunity The allowance is paid in cash following each event of intercontinental travel. Benefits and expenses Approach Non-executive directors are provided with administrative support and reasonable travelling expenses. Professional fees are reimbursed in the form of cash, payable following the provision of advice and assistance. Operation and opportunity Non-executive directors are reimbursed for all reasonable travelling and subsistence expenses (including any relevant tax) incurred in carrying out their duties. The reimbursement of professional fees incurred by non-executive directors based outside the UK in connection with advice and assistance on UK tax compliance matters. BP Annual Report and Form 20-F 2017/18 This directors' remuneration report was approved by the board and signed on its behalf by David J Jackson, company secretary on 29 March 2018.

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Pages 113-114 have been removed as they do not form part of BP's Annual Report on Form 20-F as filed with the SEC. C orporate governance

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Consolidated financial statements of the BP group

Pages 116-122 have been removed as they do not form part of BP's Annual Report on Form 20-F as filed with the SEC.

This page does not form part of BP's Annual Report on Form 20-F as filed with the SEC.

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Consolidated financial statements of the BP group
Report of Independent Registered Public Accounting Firm
To the shareholders and board of directors of BP p.l.c.

Opinion on the financial statements

We have audited the accompanying group balance sheets of BP p.l.c. (the Company) as of 31 December 2017 and 2016, and the related group income statement, group statement of comprehensive income, group statement of changes in equity and group cash flow statement for each of the three years in the period ended 31 December 2017, and the related notes (collectively referred to as the "group financial statements"). In our opinion, the group financial statements present fairly, in all material respects, the financial position of BP p.l.c. at 31 December 2017 and 2016 and the results of its operations and its cash flows for each of the three years in the period ended 31 December 2017, in conformity with International Financial Reporting Standards ("IFRS") as adopted by the European Union and IFRS as issued by the International Accounting Standards Board.

We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), BP p.l.c.'s internal control over financial reporting as of 31 December 2017, based on criteria established in the UK Financial Reporting Council's Guidance on Risk Management, Internal Control and Related Financial and Business Reporting and our report dated 29 March 2018 expressed an unqualified opinion thereon.

Basis for opinion

These financial statements are the responsibility of BP p.l.c.'s management. Our responsibility is to express an opinion on these financial statements based on our audits. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to BP p.l.c. in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ Ernst & Young LLP

We have served as the Company's auditor since 1909.

London, United Kingdom

29 March 2018

Consolidated financial statements of the BP group
Report of Independent Registered Public Accounting Firm
To the shareholders and board of directors of BP p.l.c.

Opinion on internal control over financial reporting

We have audited BP p.l.c.'s internal control over financial reporting as of 31 December 2017, based on criteria established in the UK Financial Reporting Council's Guidance on Risk Management, Internal Control and Related Financial and Business Reporting. In our opinion, BP p.l.c. maintained, in all material respects, effective internal control over financial reporting as of 31 December 2017, based on the UK Financial Reporting Council's Guidance. We also have audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) (PCAOB), the group balance sheets of BP p.l.c. as of 31 December 2017 and 2016, the related group income statement, group statement of comprehensive income, group statement of changes in equity and group cash flow statement for each of the three years in the period ended 31 December 2017, and our report dated 29 March 2018 expressed an unqualified opinion thereon.

Basis for opinion

BP p.l.c.'s management is responsible for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting included in the accompanying Management's report on internal control over financial reporting on page 275. Our responsibility is to express an opinion on the company's internal control over financial reporting based on our audit. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether effective internal control over financial reporting was maintained in all material respects.

Our audit included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, testing and evaluating the design and operating effectiveness of internal control based on the assessed risk, and performing such other procedures as we considered necessary in the circumstances. We believe that our audit provides a reasonable basis for our opinion.

Definition and limitations of internal control over financial reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ Ernst & Young LLP
London, United Kingdom
29 March 2018

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Consent of independent registered public accounting firm

We consent to the incorporation by reference of our reports dated 29 March 2018, with respect to the group financial statements of BP p.l.c., and the effectiveness of internal control over financial reporting of BP p.l.c., included in this Annual Report and Form 20-F for the year ended 31 December 2017 in the following Registration Statements: Registration Statements on Form F-3 (File Nos. 333-208478 and 333-208478-01) of BP p.l.c. and BP Capital Markets p.l.c.; and Registration Statements on Form S-8 (File Nos. 333-67206, 333-79399, 333-103924, 333-123482, 333-123483, 333-131583, 333-131584, 333-132619, 333-146868, 333-146870, 333-146873, 333-173136, 333-177423, 333-179406, 333-186462, 333-186463, 333-199015, 333-200794, 333-200795, 333-207188, 333-207189, 333-210316 and 333-210318) of BP p.l.c.

/s/ Ernst & Young LLP
London, United Kingdom
29 March 2018

Group income statement

For the year ended 31 December

| | | \$ million | | |
|---|------|------------|----------|----------|
| | Note | 2017 | 2016 | 2015 |
| Sales and other operating revenues | 4 | 240,208 | 183,008 | 222,894 |
| Earnings from joint ventures – after interest and tax | 14 | 1,177 | 966 | (28) |
| Earnings from associates – after interest and tax | 15 | 1,330 | 994 | 1,839 |
| Interest and other income | 5 | 657 | 506 | 611 |
| Gains on sale of businesses and fixed assets | 3 | 1,210 | 1,132 | 666 |
| Total revenues and other income | | 244,582 | 186,606 | 225,982 |
| Purchases | 17 | 179,716 | 132,219 | 164,790 |
| Production and manufacturing expenses ^a | | 24,229 | 29,077 | 37,040 |
| Production and similar taxes | 4 | 1,775 | 683 | 1,036 |
| Depreciation, depletion and amortization | 4 | 15,584 | 14,505 | 15,219 |
| Impairment and losses on sale of businesses and fixed assets | 3 | 1,216 | (1,664) | 1,909 |
| Exploration expense | 6 | 2,080 | 1,721 | 2,353 |
| Distribution and administration expenses | | 10,508 | 10,495 | 11,553 |
| Profit (loss) before interest and taxation | | 9,474 | (430) | (7,918) |
| Finance costs ^a | 5 | 2,074 | 1,675 | 1,347 |
| Net finance expense relating to pensions and other post-retirement benefits | 22 | 220 | 190 | 306 |
| Profit (loss) before taxation | | 7,180 | (2,295) | (9,571) |
| Taxation ^a | 7 | 3,712 | (2,467) | (3,171) |
| Profit (loss) for the year | | 3,468 | 172 | (6,400) |
| Attributable to | | | | |
| BP shareholders | | 3,389 | 115 | (6,482) |
| Non-controlling interests | | 79 | 57 | 82 |
| | | 3,468 | 172 | (6,400) |
| Earnings per share | | | | |
| Profit (loss) for the year attributable to BP shareholders | | | | |
| Per ordinary share (cents) | | | | |
| Basic | 9 | 17.20 | 0.61 | (35.39) |
| Diluted | 9 | 17.10 | 0.60 | (35.39) |
| Per ADS (dollars) | | | | |
| Basic | 9 | 1.03 | 0.04 | (2.12) |
| Diluted | 9 | 1.03 | 0.04 | (2.12) |

^a See Note 2 for information on the impact of the Gulf of Mexico oil spill on these income statement line items.

Group statement of comprehensive income^a

| For the year ended 31 December | | | \$ million | |
|--|-----------|---------|---------------|----------|
| | Note | 2017 | 2016 | 2015 |
| Profit (loss) for the year | | 3,468 | 172 | (6,400) |
| Other comprehensive income | | | | |
| Items that may be reclassified subsequently to profit or loss | | | | |
| Currency translation differences | | 1,986 | 254 | (4,119) |
| Exchange (gains) losses on translation of foreign operations reclassified to gain or loss on sale of businesses and fixed assets | | (120) | 30 | 23 |
| Available-for-sale investments | | 14 | 1 | 1 |
| Cash flow hedges marked to market | 28 | 197 | (639) | (178) |
| Cash flow hedges reclassified to the income statement | 28 | 116 | 196 | 249 |
| Cash flow hedges reclassified to the balance sheet | 28 | 112 | 81 | 22 |
| Share of items relating to equity-accounted entities, net of tax | 14, 15 | 564 | 833 | (814) |
| Income tax relating to items that may be reclassified | 7 | (196) | 13 | 257 |
| | | 2,673 | 769 | (4,559) |
| Items that will not be reclassified to profit or loss | | | | |
| Remeasurements of the net pension and other post-retirement benefit liability or asset | 22 | 3,646 | (2,496) | 4,139 |
| Share of items relating to equity-accounted entities, net of tax | 14, 15 | — | — | (1) |
| Income tax relating to items that will not be reclassified | 7 | (1,303) | 739 | (1,397) |
| | | 2,343 | (1,757) | 2,741 |
| Other comprehensive income | | 5,016 | (988) | (1,818) |
| Total comprehensive income | | 8,484 | (816) | (8,218) |
| Attributable to | | | | |
| BP shareholders | | 8,353 | (846) | (8,259) |
| Non-controlling interests | | 131 | 30 | 41 |
| | | 8,484 | (816) | (8,218) |

^a See Note 30 for further information.

Group statement of changes in equity^a

| | \$ million | | | | | | | |
|---|------------------------------------|-----------------|--------------------------------------|---------------------|-------------------------|-------------------------|---------------------------|--------------|
| | Share capital and capital reserves | Treasury shares | Foreign currency translation reserve | Fair value reserves | Profit and loss account | BP shareholders' equity | Non-controlling interests | Total equity |
| At 1 January 2017 | 46,122 | (18,443) | (6,878) | (1,153) | 75,638 | 95,286 | 1,557 | 96,843 |
| Profit (loss) for the year | — | — | — | — | 3,389 | 3,389 | 79 | 3,468 |
| Other comprehensive income | — | — | 1,722 | 410 | 2,832 | 4,964 | 52 | 5,016 |
| Total comprehensive income | — | — | 1,722 | 410 | 6,221 | 8,353 | 131 | 8,484 |
| Dividends ^b | — | — | — | — | (6,153) | (6,153) | (141) | (6,294) |
| Repurchase of ordinary share capital | — | — | — | — | (343) | (343) | — | (343) |
| Share-based payments, net of tax | — | 1,485 | — | — | (798) | 687 | — | 687 |
| Share of equity-accounted entities' changes in equity, net of tax | — | — | — | — | 215 | 215 | — | 215 |
| Transactions involving non-controlling interests, net of tax | — | — | — | — | 446 | 446 | 366 | 812 |
| At 31 December 2017 | 46,122 | (16,958) | (5,156) | (743) | 75,226 | 98,491 | 1,913 | 100,404 |
| At 1 January 2016 | 43,902 | (19,964) | (7,267) | (823) | 81,368 | 97,216 | 1,171 | 98,387 |
| Profit (loss) for the year | — | — | — | — | 115 | 115 | 57 | 172 |
| Other comprehensive income | — | — | 389 | (330) | (1,020) | (961) | (27) | (988) |
| Total comprehensive income | — | — | 389 | (330) | (905) | (846) | 30 | (816) |
| Dividends ^b | — | — | — | — | (4,611) | (4,611) | (107) | (4,718) |
| Share-based payments, net of tax | 2,220 | 1,521 | — | — | (750) | 2,991 | — | 2,991 |
| Share of equity-accounted entities' changes in equity, net of tax | — | — | — | — | 106 | 106 | — | 106 |
| Transactions involving | — | — | — | — | 430 | 430 | 463 | 893 |

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| | | | | | | | | | |
|---|--------|-----------|----------|----------|----------|----------|-------|----------|--|
| non-controlling interests, net of tax | | | | | | | | | |
| At 31 December 2016 | 46,122 | (18,443) | (6,878) | (1,153) | 75,638 | 95,286 | 1,557 | 96,843 | |
| At 1 January 2015 | 43,902 | (20,719) | (3,409) | (897) | 92,564 | 111,441 | 1,201 | 112,642 | |
| Profit (loss) for the year | — | — | — | — | (6,482) | (6,482) |)82 | (6,400) | |
| Other comprehensive income | — | — | (3,858) |)74 | 2,007 | (1,777) | (41 | (1,818) | |
| Total comprehensive income | — | — | (3,858) |)74 | (4,475) | (8,259) |)41 | (8,218) | |
| Dividends ^b | — | — | — | — | (6,659) | (6,659) | (91 | (6,750) | |
| Share-based payments, net of tax | — | 755 | — | — | (99) |)656 | — | 656 | |
| Share of equity-accounted entities' changes in equity, net of tax | — | — | — | — | 40 | 40 | — | 40 | |
| Transactions involving non-controlling interests, net of tax | — | — | — | — | (3) | (3) |)20 | 17 | |
| At 31 December 2015 | 43,902 | (19,964) | (7,267) | (823) | 81,368 | 97,216 | 1,171 | 98,387 | |

^a See Note 30 for further information.

^b See Note 8 for further information.

| Group balance sheet | | | |
|--|------|---------|------------|
| At 31 December | | | \$ million |
| | Note | 2017 | 2016 |
| Non-current assets | | | |
| Property, plant and equipment | 10 | 129,471 | 129,757 |
| Goodwill | 12 | 11,551 | 11,194 |
| Intangible assets | 13 | 18,355 | 18,183 |
| Investments in joint ventures | 14 | 7,994 | 8,609 |
| Investments in associates | 15 | 16,991 | 14,092 |
| Other investments | 16 | 1,245 | 1,033 |
| Fixed assets | | 185,607 | 182,868 |
| Loans | | 646 | 532 |
| Trade and other receivables | 18 | 1,434 | 1,474 |
| Derivative financial instruments | 28 | 4,110 | 4,359 |
| Prepayments | | 1,112 | 945 |
| Deferred tax assets | 7 | 4,469 | 4,741 |
| Defined benefit pension plan surpluses | 22 | 4,169 | 584 |
| | | 201,547 | 195,503 |
| Current assets | | | |
| Loans | | 190 | 259 |
| Inventories | 17 | 19,011 | 17,655 |
| Trade and other receivables | 18 | 24,849 | 20,675 |
| Derivative financial instruments | 28 | 3,032 | 3,016 |
| Prepayments | | 1,414 | 1,486 |
| Current tax receivable | | 761 | 1,194 |
| Other investments | 16 | 125 | 44 |
| Cash and cash equivalents | 23 | 25,586 | 23,484 |
| | | 74,968 | 67,813 |
| Total assets | | 276,515 | 263,316 |
| Current liabilities | | | |
| Trade and other payables | 20 | 44,209 | 37,915 |
| Derivative financial instruments | 28 | 2,808 | 2,991 |
| Accruals | | 4,960 | 5,136 |
| Finance debt | 24 | 7,739 | 6,634 |
| Current tax payable | | 1,686 | 1,666 |
| Provisions | 21 | 3,324 | 4,012 |
| | | 64,726 | 58,354 |
| Non-current liabilities | | | |
| Other payables | 20 | 13,889 | 13,946 |
| Derivative financial instruments | 28 | 3,761 | 5,513 |
| Accruals | | 505 | 469 |
| Finance debt | 24 | 55,491 | 51,666 |
| Deferred tax liabilities | 7 | 7,982 | 7,238 |
| Provisions | 21 | 20,620 | 20,412 |
| Defined benefit pension plan and other post-retirement benefit plan deficits | 22 | 9,137 | 8,875 |
| | | 111,385 | 108,119 |
| Total liabilities | | 176,111 | 166,473 |
| Net assets | | 100,404 | 96,843 |
| Equity | | | |
| BP shareholders' equity | 30 | 98,491 | 95,286 |

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| | | | |
|---------------------------|----|-----------------|-------|
| Non-controlling interests | 30 | 1,913 | 1,557 |
| Total equity | 30 | 100,404,968,843 | |

C-H Svanberg Chairman
R W Dudley Group chief executive
29 March 2018

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Group cash flow statement

For the year ended 31 December

| | Note | 2017 | 2016 | 2015 | \$ million |
|--|------|----------|----------|----------|------------|
| Operating activities | | | | | |
| Profit (loss) before taxation | | 7,180 | (2,295) | (9,571) |) |
| Adjustments to reconcile profit (loss) before taxation to net cash provided by operating activities | | | | | |
| Exploration expenditure written off | 6 | 1,603 | 1,274 | 1,829 | |
| Depreciation, depletion and amortization | 4 | 15,584 | 14,505 | 15,219 | |
| Impairment and (gain) loss on sale of businesses and fixed assets | 3 | 6 | (2,796) | 1,243 | |
| Earnings from joint ventures and associates | | (2,507) | (1,960) | (1,811) |) |
| Dividends received from joint ventures and associates | | 1,253 | 1,105 | 1,614 | |
| Interest receivable | | (304) | (200) | (247) |) |
| Interest received | | 375 | 267 | 176 | |
| Finance costs | 5 | 2,074 | 1,675 | 1,347 | |
| Interest paid | | (1,572) | (1,137) | (1,080) |) |
| Net finance expense relating to pensions and other post-retirement benefits | 22 | 220 | 190 | 306 | |
| Share-based payments | | 661 | 779 | 321 | |
| Net operating charge for pensions and other post-retirement benefits, less contributions and benefit payments for unfunded plans | 22 | (394) | (467) | (592) |) |
| Net charge for provisions, less payments | | 2,106 | 4,487 | 11,792 | |
| (Increase) decrease in inventories | | (848) | (3,681) | 3,375 | |
| (Increase) decrease in other current and non-current assets | | (4,848) | (1,172) | 6,796 | |
| Increase (decrease) in other current and non-current liabilities | | 2,344 | 1,655 | (9,328) |) |
| Income taxes paid | | (4,002) | (1,538) | (2,256) |) |
| Net cash provided by operating activities | | 18,931 | 10,691 | 19,133 | |
| Investing activities | | | | | |
| Expenditure on property, plant and equipment, intangible and other assets | | (16,562) | (16,701) | (18,648) |) |
| Acquisitions, net of cash acquired | | (327) | (1) | 23 | |
| Investment in joint ventures | | (50) | (50) | (265) |) |
| Investment in associates | | (901) | (700) | (1,312) |) |
| Total cash capital expenditure | | (17,840) | (17,452) | (20,202) |) |
| Proceeds from disposals of fixed assets | 3 | 2,936 | 1,372 | 1,066 | |
| Proceeds from disposals of businesses, net of cash disposed | 3 | 478 | 1,259 | 1,726 | |
| Proceeds from loan repayments | | 349 | 68 | 110 | |
| Net cash used in investing activities | | (14,077) | (14,753) | (17,300) |) |
| Financing activities | | | | | |
| Net issue (repurchase) of shares | | (343) | — | — | |
| Proceeds from long-term financing | | 8,712 | 12,442 | 8,173 | |
| Repayments of long-term financing | | (6,276) | (6,685) | (6,426) |) |
| Net increase (decrease) in short-term debt | | (158) | 51 | 473 | |
| Net increase (decrease) in non-controlling interests | | 1,063 | 887 | (5) |) |
| Dividends paid | | | | | |
| BP shareholders | 8 | (6,153) | (4,611) | (6,659) |) |
| Non-controlling interests | | (141) | (107) | (91) |) |
| Net cash provided by (used in) financing activities | | (3,296) | 1,977 | (4,535) |) |
| Currency translation differences relating to cash and cash equivalents | | 544 | (820) | (672) |) |
| Increase (decrease) in cash and cash equivalents | | 2,102 | (2,905) | (3,374) |) |
| Cash and cash equivalents at beginning of year | | 23,484 | 26,389 | 29,763 | |

| | | | |
|--|--------|--------|--------|
| Cash and cash equivalents at end of year | 25,586 | 23,484 | 26,389 |
|--|--------|--------|--------|

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Notes on financial statements

1. Significant accounting policies, judgements, estimates and assumptions

Authorization of financial statements and statement of compliance with International Financial Reporting Standards

The consolidated financial statements of the BP group for the year ended 31 December 2017 were approved and signed by the group chief executive and chairman on 29 March 2018 having been duly authorized to do so by the board of directors. BP p.l.c. is a public limited company incorporated and domiciled in England and Wales. The consolidated financial statements have been prepared in accordance with International Financial Reporting Standards (IFRS) as issued by the International Accounting Standards Board (IASB), IFRS as adopted by the European Union (EU) and in accordance with the provisions of the UK Companies Act 2006. IFRS as adopted by the EU differs in certain respects from IFRS as issued by the IASB. The differences have no impact on the group's consolidated financial statements for the years presented. The significant accounting policies and accounting judgements, estimates and assumptions of the group are set out below.

Basis of preparation

The consolidated financial statements have been prepared on a going concern basis and in accordance with IFRS and IFRS Interpretations Committee (IFRIC) interpretations issued and effective for the year ended 31 December 2017.

The accounting policies that follow have been consistently applied to all years presented.

The consolidated financial statements are presented in US dollars and all values are rounded to the nearest million dollars (\$ million), except where otherwise indicated.

Significant accounting policies: use of judgements, estimates and assumptions

Inherent in the application of many of the accounting policies used in preparing the financial statements is the need for BP management to make judgements, estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities, and the reported amounts of revenues and expenses.

Actual outcomes could differ from the estimates and assumptions used. The accounting judgements and estimates that could have a significant impact on the results of the group are set out in boxed text below, and should be read in conjunction with the information provided in the Notes on financial statements. The areas requiring the most significant judgement and estimation in the preparation of the consolidated financial statements are: accounting for interests in other entities; oil and natural gas accounting, including the estimation of reserves; the recoverability of asset carrying values, including trade receivables; derivative financial instruments; provisions and contingencies, including provisions and contingencies related to the Gulf of Mexico oil spill; pensions and other post-retirement benefits; and income taxes. Where an estimate has a significant risk of resulting in a material adjustment to the carrying amounts of assets and liabilities within the next financial year this is specifically noted within the boxed text. Whilst the impact of the application of hedge accounting on the group's financial statements can be significant, the group no longer considers the decision to apply such accounting to represent one of its significant accounting judgements.

Basis of consolidation

The group financial statements consolidate the financial statements of BP p.l.c. and its subsidiaries drawn up to 31 December each year. Subsidiaries are consolidated from the date of their acquisition, being the date on which the group obtains control, and continue to be consolidated until the date that control ceases. The financial statements of subsidiaries are prepared for the same reporting year as the parent company, using consistent accounting policies.

Intra-group balances and transactions, including unrealized profits arising from intra-group transactions, have been eliminated. Unrealized losses are eliminated unless the transaction provides evidence of an impairment of the asset transferred. Non-controlling interests represent the equity in subsidiaries that is not attributable, directly or indirectly, to BP shareholders.

Interests in other entities

Business combinations and goodwill

Business combinations are accounted for using the acquisition method. The identifiable assets acquired and liabilities assumed are recognized at their fair values at the acquisition date.

Goodwill is initially measured as the excess of the aggregate of the consideration transferred, the amount recognized for any non-controlling interest and the acquisition-date fair values of any previously held interest in the acquiree over the fair value of the identifiable assets acquired and liabilities assumed at the acquisition date. At the acquisition date,

any goodwill acquired is allocated to each of the cash-generating units, or groups of cash-generating units, expected to benefit from the combination's synergies. Following initial recognition, goodwill is measured at cost less any accumulated impairment losses. Goodwill arising on business combinations prior to 1 January 2003 is stated at the previous carrying amount under UK generally accepted accounting practice, less subsequent impairments. See Note 12 for further information.

Goodwill may also arise upon investments in joint ventures and associates, being the surplus of the cost of investment over the group's share of the net fair value of the identifiable assets and liabilities. Any such goodwill is recorded within the corresponding investment in joint ventures and associates.

Interests in joint arrangements

The results, assets and liabilities of joint ventures are incorporated in these financial statements using the equity method of accounting as described below.

Certain of the group's activities, particularly in the Upstream segment, are conducted through joint operations. BP recognizes, on a line-by-line basis in the consolidated financial statements, its share of the assets, liabilities and expenses of these joint operations incurred jointly with the other partners, along with the group's income from the sale of its share of the output and any liabilities and expenses that the group has incurred in relation to the joint operation.

Interests in associates

The results, assets and liabilities of associates are incorporated in these financial statements using the equity method of accounting as described below.

1. Significant accounting policies, judgements, estimates and assumptions – continued

Significant judgement: investment in Rosneft

Judgement is required in assessing the level of control or influence over another entity in which the group holds an interest. For BP, the judgement that the group has significant influence over Rosneft Oil Company (Rosneft), a Russian oil and gas company is significant. As a consequence of this judgement, BP uses the equity method of accounting for its investment and BP's share of Rosneft's oil and natural gas reserves is included in the group's estimated net proved reserves of equity-accounted entities. If significant influence was not present, the investment would be accounted for as an available-for-sale financial asset as described under 'Financial assets' below and no share of Rosneft's oil and natural gas reserves would be reported.

Significant influence is defined in IFRS as the power to participate in the financial and operating policy decisions of the investee but is not control or joint control of those policies. Significant influence is presumed when an entity owns 20% or more of the voting power of the investee. Significant influence is presumed not to be present when an entity owns less than 20% of the voting power of the investee.

BP owns 19.75% of the voting shares of Rosneft. The Russian federal government, through its investment company JSC Rosneftgaz, owned 50% plus one share of the voting shares of Rosneft at 31 December 2017. IFRS identifies several indicators that may provide evidence of significant influence, including representation on the board of directors of the investee and participation in policy-making processes. BP's group chief executive, Bob Dudley, has been a member of the board of directors of Rosneft since 2013 and he is chairman of the Rosneft board's Strategic Planning Committee. A second BP-nominated director, Guillermo Quintero, has been a member of the Rosneft board and its HR and Remuneration Committee since 2015. BP also holds the voting rights at general meetings of shareholders conferred by its 19.75% stake in Rosneft. BP's management consider, therefore, that the group has significant influence over Rosneft, as defined by IFRS.

The equity method of accounting

Under the equity method, an investment is carried on the balance sheet at cost plus post-acquisition changes in the group's share of net assets of the entity, less distributions received and less any impairment in value of the investment. Loans advanced to equity-accounted entities that have the characteristics of equity financing are also included in the investment on the group balance sheet. The group income statement reflects the group's share of the results after tax of the equity-accounted entity, adjusted to account for depreciation, amortization and any impairment of the equity-accounted entity's assets based on their fair values at the date of acquisition. The group statement of comprehensive income includes the group's share of the equity-accounted entity's other comprehensive income. The group's share of amounts recognized directly in equity by an equity-accounted entity is recognized directly in the group's statement of changes in equity.

Financial statements of equity-accounted entities are prepared for the same reporting year as the group. Where material differences arise in the accounting policies used by the equity-accounted entity and those used by BP, adjustments are made to those financial statements to bring the accounting policies used into line with those of the group.

Unrealized gains on transactions between the group and its equity-accounted entities are eliminated to the extent of the group's interest in the equity-accounted entity.

The group assesses investments in equity-accounted entities for impairment whenever events or changes in circumstances indicate that the carrying value may not be recoverable. If any such indication of impairment exists, the carrying amount of the investment is compared with its recoverable amount, being the higher of its fair value less costs of disposal and value in use. If the carrying amount exceeds the recoverable amount, the investment is written down to its recoverable amount.

Segmental reporting

The group's operating segments are established on the basis of those components of the group that are evaluated regularly by the group chief executive, BP's chief operating decision maker, in deciding how to allocate resources and in assessing performance.

The accounting policies of the operating segments are the same as the group's accounting policies described in this note, except that IFRS requires that the measure of profit or loss disclosed for each operating segment is the measure that is provided regularly to the chief operating decision maker. For BP, this measure of profit or loss is replacement

cost profit before interest and tax which reflects the replacement cost of inventories sold in the period and is arrived at by excluding inventory holding gains and losses from profit. Replacement cost profit for the group is not a recognized measure under IFRS. For further information see Note 4.

Foreign currency translation

In individual subsidiaries, joint ventures and associates, transactions in foreign currencies are initially recorded in the functional currency of those entities at the spot exchange rate on the date of the transaction. Monetary assets and liabilities denominated in foreign currencies are retranslated into the functional currency at the spot exchange rate on the balance sheet date. Any resulting exchange differences are included in the income statement, unless hedge accounting is applied. Non-monetary assets and liabilities, other than those measured at fair value, are not retranslated subsequent to initial recognition.

In the consolidated financial statements, the assets and liabilities of non-US dollar functional currency subsidiaries, joint ventures, associates, and related goodwill, are translated into US dollars at the spot exchange rate on the balance sheet date. The results and cash flows of non-US dollar functional currency subsidiaries, joint ventures and associates are translated into US dollars using average rates of exchange. In the consolidated financial statements, exchange adjustments arising when the opening net assets and the profits for the year retained by non-US dollar functional currency subsidiaries, joint ventures and associates are translated into US dollars are recognized in a separate component of equity and reported in other comprehensive income. Exchange gains and losses arising on long-term intra-group foreign currency borrowings used to finance the group's non-US dollar investments are also reported in other comprehensive income. On disposal or partial disposal of a non-US dollar functional currency subsidiary, joint venture or associate, the related accumulated exchange gains and losses recognized in equity are reclassified from equity to the income statement.

Non-current assets held for sale

Non-current assets and disposal groups classified as held for sale are measured at the lower of carrying amount and fair value less costs to sell.

Non-current assets and disposal groups are classified as held for sale if their carrying amounts will be recovered through a sale transaction rather than through continuing use. This condition is regarded as met only when the sale is highly probable and the asset or disposal group is available for immediate sale in its present condition subject only to terms that are usual and customary for sales of such assets. Management must be committed to the sale, which should be expected to qualify for recognition as a completed sale within one year from the date of classification as held for sale, and actions required to complete the plan of sale should indicate that it is unlikely that significant changes to the plan will be made or that the plan will be withdrawn.

1. Significant accounting policies, judgements, estimates and assumptions – continued

Property, plant and equipment and intangible assets are not depreciated or amortized once classified as held for sale.

Intangible assets

Intangible assets, other than goodwill, include expenditure on the exploration for and evaluation of oil and natural gas resources, computer software, patents, licences and trademarks and are stated at the amount initially recognized, less accumulated amortization and accumulated impairment losses.

Intangible assets acquired separately from a business are carried initially at cost. An intangible asset acquired as part of a business combination is measured at fair value at the date of acquisition and is recognized separately from goodwill if the asset is separable or arises from contractual or other legal rights.

Intangible assets with a finite life, other than capitalized exploration and appraisal costs as described below, are amortized on a straight-line basis over their expected useful lives. For patents, licences and trademarks, expected useful life is the shorter of the duration of the legal agreement and economic useful life, and can range from three to fifteen years. Computer software costs generally have a useful life of three to five years.

The expected useful lives of assets are reviewed on an annual basis and, if necessary, changes in useful lives are accounted for prospectively.

Oil and natural gas exploration, appraisal and development expenditure

Oil and natural gas exploration, appraisal and development expenditure is accounted for using the principles of the successful efforts method of accounting as described below.

Licence and property acquisition costs

Exploration licence and leasehold property acquisition costs are capitalized within intangible assets and are reviewed at each reporting date to confirm that there is no indication that the carrying amount exceeds the recoverable amount. This review includes confirming that exploration drilling is still under way or planned or that it has been determined, or work is under way to determine, that the discovery is economically viable based on a range of technical and commercial considerations, and sufficient progress is being made on establishing development plans and timing. If no future activity is planned, the remaining balance of the licence and property acquisition costs is written off. Lower value licences are pooled and amortized on a straight-line basis over the estimated period of exploration. Upon recognition of proved reserves and internal approval for development, the relevant expenditure is transferred to property, plant and equipment.

Exploration and appraisal expenditure

Geological and geophysical exploration costs are recognized as an expense as incurred. Costs directly associated with an exploration well are initially capitalized as an intangible asset until the drilling of the well is complete and the results have been evaluated. These costs include employee remuneration, materials and fuel used, rig costs and payments made to contractors. If potentially commercial quantities of hydrocarbons are not found, the exploration well costs are written off. If hydrocarbons are found and, subject to further appraisal activity, are likely to be capable of commercial development, the costs continue to be carried as an asset. If it is determined that development will not occur then the costs are expensed.

Costs directly associated with appraisal activity undertaken to determine the size, characteristics and commercial potential of a reservoir following the initial discovery of hydrocarbons, including the costs of appraisal wells where hydrocarbons were not found, are initially capitalized as an intangible asset. When proved reserves of oil and natural gas are determined and development is approved by management, the relevant expenditure is transferred to property, plant and equipment.

The determination of whether potentially economic oil and natural gas reserves have been discovered by an exploration well is usually made within one year of well completion, but can take longer, depending on the complexity of the geological structure. Exploration wells that discover potentially economic quantities of oil and natural gas and are in areas where major capital expenditure (e.g. an offshore platform or a pipeline) would be required before production could begin, and where the economic viability of that major capital expenditure depends on the successful completion of further exploration or appraisal work in the area, remain capitalized on the balance sheet as long as such work is under way or firmly planned.

Development expenditure

Expenditure on the construction, installation and completion of infrastructure facilities such as platforms, pipelines and the drilling of development wells, including service and unsuccessful development or delineation wells, is capitalized within property, plant and equipment and is depreciated from the commencement of production as described below in the accounting policy for property, plant and equipment.

Significant judgement: oil and natural gas accounting

Judgement is required to determine whether it is appropriate to continue to carry costs associated with exploration wells and exploratory-type stratigraphic test wells on the balance sheet. It is not unusual to have such costs remaining suspended on the balance sheet for several years while additional appraisal drilling and seismic work on the potential oil and natural gas field is performed or while the optimum development plans and timing are established. All such carried costs are subject to regular technical, commercial and management review on at least an annual basis to confirm the continued intent to develop, or otherwise extract value from, the discovery. Where this is no longer the case, the costs are immediately expensed.

One of the circumstances that indicate an entity should test such assets for impairment is that the period for which the entity has a right to explore in the specific area has expired or will expire in the near future, and is not expected to be renewed. BP has leases in the Gulf of Mexico making up a prospect, some with terms that were scheduled to expire at the end of 2013 and some with terms that were scheduled to expire at the end of 2014. A significant proportion of our capitalized exploration and appraisal costs in the Gulf of Mexico relate to this prospect. This prospect requires the development of subsea technology to ensure that the hydrocarbons can be extracted safely. BP is in negotiation with the US Bureau of Safety and Environmental Enforcement in relation to seeking extension of these leases so that the discovered hydrocarbons can be developed. BP remains committed to developing this prospect and expects that the leases will be renewed and, therefore, continues to carry the capitalized costs on its balance sheet.

Property, plant and equipment

Property, plant and equipment is stated at cost, less accumulated depreciation and accumulated impairment losses. The initial cost of an asset comprises its purchase price or construction cost, any costs directly attributable to bringing the asset into the location and condition necessary for it to be capable of operating in the manner intended by management, the initial estimate of any decommissioning obligation, if any, and, for assets that necessarily take a substantial period of time to get ready for their intended use, directly attributable finance costs. The purchase

1. Significant accounting policies, judgements, estimates and assumptions – continued

price or construction cost is the aggregate amount paid and the fair value of any other consideration given to acquire the asset. The capitalized value of a finance lease is also included within property, plant and equipment.

Expenditure on major maintenance refits or repairs comprises the cost of replacement assets or parts of assets, inspection costs and overhaul costs. Where an asset or part of an asset that was separately depreciated is replaced and it is probable that future economic benefits associated with the item will flow to the group, the expenditure is capitalized and the carrying amount of the replaced asset is derecognized. Inspection costs associated with major maintenance programmes are capitalized and amortized over the period to the next inspection. Overhaul costs for major maintenance programmes, and all other maintenance costs are expensed as incurred.

Oil and natural gas properties, including related pipelines, are depreciated using a unit-of-production method. The cost of producing wells is amortized over proved developed reserves. Licence acquisition, common facilities and future decommissioning costs are amortized over total proved reserves. The unit-of-production rate for the depreciation of common facilities takes into account expenditures incurred to date, together with estimated future capital expenditure expected to be incurred relating to as yet undeveloped reserves expected to be processed through these common facilities.

Other property, plant and equipment is depreciated on a straight-line basis over its expected useful life. The typical useful lives of the group's other property, plant and equipment are as follows:

| | |
|-----------------------|----------------|
| Land improvements | 15 to 25 years |
| Buildings | 20 to 50 years |
| Refineries | 20 to 30 years |
| Petrochemicals plants | 20 to 30 years |
| Pipelines | 10 to 50 years |
| Service stations | 15 years |
| Office equipment | 3 to 7 years |
| Fixtures and fittings | 5 to 15 years |

The expected useful lives of property, plant and equipment are reviewed on an annual basis and, if necessary, changes in useful lives are accounted for prospectively.

An item of property, plant and equipment is derecognized upon disposal or when no future economic benefits are expected to arise from the continued use of the asset. Any gain or loss arising on derecognition of the asset (calculated as the difference between the net disposal proceeds and the carrying amount of the item) is included in the income statement in the period in which the item is derecognized.

Significant estimate: estimation of oil and natural gas reserves

Significant technical and commercial judgements are required to determine the group's estimated oil and natural gas reserves. Reserves estimates are regularly reviewed and updated. Factors such as the availability of geological and engineering data, reservoir performance data, acquisition and divestment activity, drilling of new wells, and commodity prices all impact on the determination of the group's estimates of its oil and natural gas reserves. BP bases its proved reserves estimates on the requirement of reasonable certainty with rigorous technical and commercial assessments based on conventional industry practice and regulatory requirements.

The estimation of oil and natural gas reserves and BP's process to manage reserves bookings is described in Supplementary information on oil and natural gas on page 191, which is unaudited. Details on BP's proved reserves and production compliance and governance processes are provided on page 260. The 2017 movements in proved reserves are reflected in the tables showing movements in oil and natural gas reserves by region in Supplementary information on oil and natural gas (unaudited) on page 191.

Estimates of oil and natural gas reserves determined by applying US Securities and Exchange Commission regulations are used to calculate depreciation, depletion and amortization charges for the group's oil and gas properties. The impact of changes in estimated proved reserves is dealt with prospectively by amortizing the remaining carrying value of the asset over the expected future production.

Oil and natural gas reserves estimates based upon management's assumptions for future commodity prices have a direct impact on the assessment of the recoverability of asset carrying values reported in the financial statements. If proved reserves estimates determined by applying management's assumptions are revised downwards, earnings could

be affected by changes in depreciation expense or an immediate write-down of the property's carrying value. Changes in proved reserves, therefore, could result in a material change in those properties' carrying values within the next financial year. See also Significant judgements and estimates: recoverability of asset carrying values.

Information on the carrying amounts of the group's oil and natural gas properties, together with the amounts recognized in the income statement as depreciation, depletion and amortization is contained in Note 10 and Note 4 respectively.

Impairment of property, plant and equipment, intangible assets, and goodwill

The group assesses assets or groups of assets, called cash-generating units (CGUs), for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset or CGU may not be recoverable; for example, changes in the group's business plans, changes in the group's assumptions about commodity prices, low plant utilization, evidence of physical damage or, for oil and gas assets, significant downward revisions of estimated reserves or increases in estimated future development expenditure or decommissioning costs. If any such indication of impairment exists, the group makes an estimate of the asset's or CGU's recoverable amount. Individual assets are grouped into CGUs for impairment assessment purposes at the lowest level at which there are identifiable cash flows that are largely independent of the cash flows of other groups of assets. A CGU's recoverable amount is the higher of its fair value less costs of disposal and its value in use. Where the carrying amount of a CGU exceeds its recoverable amount, the CGU is considered impaired and is written down to its recoverable amount.

The business segment plans, which are approved on an annual basis by senior management, are the primary source of information for the determination of value in use. They contain forecasts for oil and natural gas production, refinery throughputs, sales volumes for various types of refined products (e.g. gasoline and lubricants), revenues, costs and capital expenditure. As an initial step in the preparation of these plans, various assumptions regarding market conditions, such as oil prices, natural gas prices, refining margins, refined product margins and cost inflation rates are set by senior management. These assumptions take account of existing prices, global supply-demand equilibrium for oil and natural gas, other macroeconomic factors and historical trends and variability. In assessing value in use, the estimated future cash flows are adjusted for the risks specific to the asset group and are discounted to their present value using a pre-tax discount rate that reflects current market assessments of the time value of money.

1. Significant accounting policies, judgements, estimates and assumptions – continued

Fair value less costs of disposal is the price that would be received to sell the asset in an orderly transaction between market participants and does not reflect the effects of factors that may be specific to the group and not applicable to entities in general.

An assessment is made at each reporting date as to whether there is any indication that previously recognized impairment losses may no longer exist or may have decreased. If such an indication exists, the recoverable amount is estimated. A previously recognized impairment loss is reversed only if there has been a change in the estimates used to determine the asset's recoverable amount since the last impairment loss was recognized. If that is the case, the carrying amount of the asset is increased to the lower of its recoverable amount and the carrying amount that would have been determined, net of depreciation, had no impairment loss been recognized for the asset in prior years. Impairment reversals are recognized in profit or loss. After a reversal, the depreciation charge is adjusted in future periods to allocate the asset's revised carrying amount, less any residual value, on a systematic basis over its remaining useful life.

Goodwill is reviewed for impairment annually or more frequently if events or changes in circumstances indicate the recoverable amount of the group of CGUs to which the goodwill relates should be assessed. In assessing whether goodwill has been impaired, the carrying amount of the group of CGUs to which goodwill has been allocated is compared with its recoverable amount. Where the recoverable amount of the group of CGUs is less than the carrying amount (including goodwill), an impairment loss is recognized. An impairment loss recognized for goodwill is not reversed in a subsequent period.

Significant judgements and estimates: recoverability of asset carrying values

Determination as to whether, and by how much, an asset, CGU, or group of CGUs containing goodwill is impaired involves management estimates on highly uncertain matters such as the effects of inflation and deflation on operating expenses, discount rates, production profiles, reserves and resources, and future commodity prices, including the outlook for global or regional market supply-and-demand conditions for crude oil, natural gas and refined products. Judgement is required when determining the appropriate grouping of assets into a CGU or the appropriate grouping of CGUs for impairment testing purposes. See Note 12 for details on how these groupings have been determined in relation to the impairment testing of goodwill.

As disclosed above, the recoverable amount of an asset is the higher of its value in use and its fair value less costs of disposal. Fair value less costs of disposal may be determined based on similar recent market transaction data or, where recent market transactions for the asset are not available for reference, using discounted cash flow techniques. Where discounted cash flow analyses are used to calculate fair value less costs of disposal, judgements are made about the assumptions market participants would use when pricing the asset, CGU or group of CGUs containing goodwill and the test is performed on a post-tax basis.

Irrespective of whether there is any indication of impairment, BP is required to test annually for impairment of goodwill acquired in business combinations. The group carries goodwill of approximately \$11.6 billion on its balance sheet (2016 \$11.2 billion), principally relating to the Atlantic Richfield, Burmah Castrol, Devon Energy and Reliance transactions. In testing goodwill for impairment, the group uses the approach described above to determine recoverable amount. If there are low oil or natural gas prices for an extended period, the group may need to recognize goodwill impairment charges against its Upstream segment goodwill. Sensitivities relating to impairment testing of goodwill in the Upstream segment are provided in Note 12.

Details of impairment charges and reversals recognized in the income statement are provided in Note 3 and details on the carrying amounts of assets are shown in Note 10, Note 12 and Note 13.

Assumptions made in impairment tests in 2017 relating to discount rates, oil and gas properties and oil and gas prices are discussed below. Changes in the economic environment or other facts and circumstances may necessitate revisions to these assumptions and could result in a material change to the carrying values of the group's assets within the next financial year.

Discount rates

For value-in-use calculations, future cash flows are adjusted for risks specific to the cash-generating unit and are discounted using a pre-tax discount rate. The pre-tax discount rate is based upon the cost of funding the group derived from an established model, adjusted to a pre-tax basis. Fair value less costs of disposal calculations use the post-tax

discount rate.

The discount rates applied in impairment tests are reassessed each year. In 2017 the discount rate used to determine recoverable amounts based on fair value less costs of disposal was 6% (2016 6%). The discount rate used to determine recoverable amounts based on value in use was 9% (2016 9%). In both cases, where the cash-generating unit is located in a country which is judged to be higher risk an additional 2% premium was added to the discount rate (2016 2%).

Oil and natural gas properties

For oil and natural gas properties, expected future cash flows are estimated using management's best estimate of future oil and natural gas prices and production and reserves volumes. The estimated future level of production in all impairment tests is based on assumptions about future commodity prices, production and development costs, field decline rates, current fiscal regimes and other factors.

Reserves assumptions for value-in-use tests are restricted to proved and probable reserves.

When estimating the fair value of our Upstream assets, assumptions reflect all reserves and resources that management believe a market participant would consider when valuing the asset, which in some cases are broader in scope than the reserves used in a value-in-use test. In determining a fair value, risk factors may be applied to reserves and resources which do not meet the criteria to be treated as proved. Depending upon the classification of the reserves and resources, this can result in associated forecast cash flows being reduced by a factor of between 10% and 90% from their estimated full potential value. Changing the risk factor applied will in some cases have an impact upon the carrying value of the asset concerned. Based on tests performed in 2016 and 2017, a 10% increase in the risk factors used in any single test could have an impact of up to \$0.4 billion upon the carrying value of that asset.

The recoverability of intangible exploration and appraisal expenditure is covered under Oil and natural gas exploration, appraisal and development expenditure above.

Oil and gas prices

The long-term price assumptions used to determine recoverable amount based on fair value less costs of disposal from 2023 onwards are derived from \$75 per barrel for Brent and \$4/mmBtu for Henry Hub, both in 2015 prices, inflated for the remaining life of the asset (2016 \$75 per barrel and \$4/mmBtu, both in 2015 prices, from 2022 onwards). To determine recoverable amount based on value in use, the price assumptions were inflated to 2023 but from 2023 onwards were not inflated.

1. Significant accounting policies, judgements, estimates and assumptions – continued

For both value-in-use and fair value less costs of disposal impairment tests, the price assumptions used for the five-year period to 2022 have been set such that there is a gradual transition from current market prices to the long-term price assumptions as noted above, with the rate of increase reducing in the later years.

Oil prices have firmed somewhat in the wake of the extension of OPEC and non-OPEC production cuts and the gradual adjustment in oil inventories from elevated levels. BP's long-term assumption for oil prices is higher than recent market prices reflecting the judgement that recent prices are not consistent with the market being able to produce sufficient oil to meet global demand sustainably in the longer term.

US gas prices have been affected by short-term volatility in winter demand although remain relatively muted. BP's long-term price assumption for US gas is higher than recent market prices as US gas production is expected to grow strongly, supported by increased exports of liquefied natural gas, absorbing the lowest cost resources and requiring increased investment in infrastructure.

Inventories

Inventories, other than inventories held for short-term trading purposes, are stated at the lower of cost and net realizable value. Cost is determined by the first-in first-out method and comprises direct purchase costs, cost of production, transportation and manufacturing expenses. Net realizable value is determined by reference to prices existing at the balance sheet date, adjusted where the sale of inventories after the reporting period gives evidence about their net realizable value at the end of the period.

Inventories held for short-term trading purposes are stated at fair value less costs to sell and any changes in fair value are recognized in the income statement.

Supplies are valued at the lower of cost on a weighted average basis and net realizable value.

Leases

Agreements under which payments are made to owners in return for the right to use a specific asset are accounted for as leases. Leases that transfer substantially all the risks and rewards of ownership are recognized as finance leases. All other leases are accounted for as operating leases.

Finance leases are capitalized at the commencement of the lease term at the fair value of the leased item or, if lower, at the present value of the minimum lease payments. Finance charges are allocated to each period so as to achieve a constant rate of interest on the remaining balance of the liability and are charged directly against income. Capitalized leased assets are depreciated over the shorter of the estimated useful life of the asset or the lease term.

Operating lease payments are recognized as an expense on a straight-line basis over the lease term.

Financial assets

Financial assets are recognized initially at fair value, normally being the transaction price plus, in the case of financial assets not at fair value through profit or loss, directly attributable transaction costs. The subsequent measurement of financial assets depends on their classification, as set out below. The group derecognizes financial assets when the contractual rights to the cash flows expire or the financial asset is transferred to a third party.

Loans and receivables

Loans and receivables are carried at amortized cost using the effective interest method if the time value of money is significant. Gains and losses are recognized in income when the loans and receivables are derecognized or impaired and when interest is recognized using the effective interest method. This category of financial assets includes trade and other receivables.

Financial assets at fair value through profit or loss

Financial assets at fair value through profit or loss are carried on the balance sheet at fair value with gains or losses recognized in the income statement. Derivatives, other than those designated as effective hedging instruments, are classified as held for trading and are included in this category.

Derivatives designated as hedging instruments in an effective hedge

These derivatives are carried on the balance sheet at fair value. The treatment of gains and losses arising from revaluation is described below in the accounting policy for derivative financial instruments and hedging activities.

Held-to-maturity financial assets

Held-to-maturity financial assets are measured at amortized cost, using the effective interest method, less any impairment.

Available-for-sale financial assets

Available-for-sale financial assets are measured at fair value, with gains or losses recognized within other comprehensive income, except for impairment losses, and, for available-for-sale debt instruments, foreign exchange gains or losses, interest recognized using the effective interest method, and any changes in fair value arising from revised estimates of future cash flows, which are recognized in profit or loss.

Cash equivalents

Cash equivalents are short-term highly liquid investments that are readily convertible to known amounts of cash, are subject to insignificant risk of changes in value and generally have a maturity of three months or less from the date of acquisition. Cash equivalents are classified as loans and receivables, held-to-maturity financial assets or available-for-sale financial assets.

Impairment of loans and receivables

The group assesses at each balance sheet date whether a financial asset or group of financial assets is impaired. If there is objective evidence that an impairment loss on loans and receivables carried at amortized cost has been incurred, the amount of the loss is measured as the difference between the asset's carrying amount and the present value of estimated future cash flows discounted at the financial asset's original effective interest rate. The carrying amount of the asset is reduced, with the amount of the loss recognized in the income statement.

Significant judgement: recoverability of trade receivables

Judgements are required in assessing the recoverability of overdue trade receivables and determining whether a provision against those receivables is required. In particular, judgements are required in the current oil and gas price environment relating to amounts due from countries that are reliant on revenues from hydrocarbon-producing activities. Factors considered include the credit rating of the counterparty, the amount and timing of anticipated future payments and any possible actions that can be taken to mitigate the risk of non-payment. See Note 27 for information on overdue receivables.

1. Significant accounting policies, judgements, estimates and assumptions – continued

Financial liabilities

The measurement of financial liabilities depends on their classification, as follows:

Financial liabilities at fair value through profit or loss

Financial liabilities at fair value through profit or loss are carried on the balance sheet at fair value with gains or losses recognized in the income statement. Derivatives, other than those designated as effective hedging instruments, are classified as held for trading and are included in this category.

Derivatives designated as hedging instruments in an effective hedge

These derivatives are carried on the balance sheet at fair value. The treatment of gains and losses arising from revaluation is described below in the accounting policy for derivative financial instruments and hedging activities.

Financial liabilities measured at amortized cost

All other financial liabilities are initially recognized at fair value, net of transaction costs. For interest-bearing loans and borrowings this is the fair value of the proceeds received net of issue costs associated with the borrowing.

After initial recognition, other financial liabilities are subsequently measured at amortized cost using the effective interest method. Amortized cost is calculated by taking into account any issue costs and any discount or premium on settlement. Gains and losses arising on the repurchase, settlement or cancellation of liabilities are recognized in interest and other income and finance costs respectively.

This category of financial liabilities includes trade and other payables and finance debt, except finance debt designated in a fair value hedge relationship.

Derivative financial instruments and hedging activities

The group uses derivative financial instruments to manage certain exposures to fluctuations in foreign currency exchange rates, interest rates and commodity prices, as well as for trading purposes. These derivative financial instruments are recognized initially at fair value on the date on which a derivative contract is entered into and subsequently remeasured at fair value. Derivatives are carried as assets when the fair value is positive and as liabilities when the fair value is negative.

Contracts to buy or sell a non-financial item (for example, oil, oil products, gas or power) that can be settled net in cash, with the exception of contracts that were entered into and continue to be held for the purpose of the receipt or delivery of a non-financial item in accordance with the group's expected purchase, sale or usage requirements, are accounted for as financial instruments. Gains or losses arising from changes in the fair value of derivatives that are not designated as effective hedging instruments are recognized in the income statement.

If, at inception of a contract, the valuation cannot be supported by observable market data, any gain or loss determined by the valuation methodology is not recognized in the income statement but is deferred on the balance sheet and is commonly known as 'day-one gain or loss'. This deferred gain or loss is recognized in the income statement over the life of the contract until substantially all the remaining contract term can be valued using observable market data at which point any remaining deferred gain or loss is recognized in the income statement. Changes in valuation subsequent to the initial valuation are recognized immediately in the income statement.

For the purpose of hedge accounting, hedges are classified as:

• fair value hedges when hedging exposure to changes in the fair value of a recognized asset or liability

• cash flow hedges when hedging exposure to variability in cash flows that is attributable to either a particular risk associated with a recognized asset or liability or a highly probable forecast transaction.

Hedge relationships are formally designated and documented at inception, together with the risk management objective and strategy for undertaking the hedge. The documentation includes identification of the hedging instrument, the hedged item or transaction, the nature of the risk being hedged, and how the entity will assess the hedging instrument effectiveness in offsetting the exposure to changes in the hedged item's fair value or cash flows attributable to the hedged risk. Such hedges are expected at inception to be highly effective in achieving offsetting changes in fair value or cash flows. Hedges meeting the criteria for hedge accounting are accounted for as follows:

Fair value hedges

The change in fair value of a hedging derivative is recognized in profit or loss. The change in the fair value of the hedged item attributable to the risk being hedged is recorded as part of the carrying value of the hedged item and is also recognized in profit or loss. The group applies fair value hedge accounting when hedging interest rate risk and

certain currency risks on fixed rate borrowings.

If the criteria for hedge accounting are no longer met, or if the group revokes the designation, the accumulated adjustment to the carrying amount of a hedged item at such time is then amortized to profit or loss over the remaining period to maturity.

Cash flow hedges

The effective portion of the gain or loss on a cash flow hedging instrument is reported in other comprehensive income, while the ineffective portion is recognized in profit or loss. Amounts reported in other comprehensive income are reclassified to the income statement when the hedged transaction affects profit or loss.

Where the hedged item is a non-financial asset or liability, such as a forecast foreign currency transaction for the purchase of property, plant and equipment, the amounts recognized within other comprehensive income are reclassified to the initial carrying amount of the non-financial asset or liability. Where the hedged item is an equity investment, the amounts recognized in other comprehensive income remain in the separate component of equity until the hedged cash flows affect profit or loss. Where the hedged item is recognized directly in profit or loss, the amounts recognized in other comprehensive income are reclassified to production and manufacturing expenses, except for cash flow hedges of variable interest rate risk which are reclassified to finance costs.

If the hedging instrument expires or is sold, terminated or exercised without replacement or rollover, or if its designation as a hedge is revoked, amounts previously recognized within other comprehensive income remain in equity until the forecast transaction occurs and are reclassified to the income statement or to the initial carrying amount of a non-financial asset or liability as above. If the forecast transaction is no longer expected to occur, amounts previously recognized within other comprehensive income will be immediately reclassified to the income statement.

1. Significant accounting policies, judgements, estimates and assumptions – continued

Fair value measurement

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. The group categorizes assets and liabilities measured at fair value into one of three levels depending on the ability to observe inputs employed in their measurement. Level 1 inputs are quoted prices in active markets for identical assets or liabilities. Level 2 inputs are inputs that are observable, either directly or indirectly, other than quoted prices included within level 1 for the asset or liability. Level 3 inputs are unobservable inputs for the asset or liability reflecting significant modifications to observable related market data or BP's assumptions about pricing by market participants.

Significant judgement and estimate: derivative contracts

In some cases the fair values of derivatives are estimated using internal models due to the absence of quoted prices or other observable, market-corroborated data. This applies to the group's longer-term derivative contracts. The majority of these contracts are valued using models with inputs that include price curves for each of the different products that are built up from available active market pricing data and modelled using the maximum available external pricing information. Additionally, where limited data exists for certain products, prices are determined using historic and long-term pricing relationships. Price volatility is also an input for options models. Changes in the key assumptions could have a material impact on the carrying amounts of derivative assets and liabilities in the next financial year. For more information see Note 28.

In some cases, judgement is required to determine whether contracts to buy or sell commodities meet the definition of a derivative. Contracts to buy and sell LNG are not considered to meet the definition as they are not considered capable of being net settled and so are accounted for on an accruals basis.

Offsetting of financial assets and liabilities

Financial assets and liabilities are presented gross in the balance sheet unless both of the following criteria are met: the group currently has a legally enforceable right to set off the recognized amounts; and the group intends to either settle on a net basis or realize the asset and settle the liability simultaneously. A right of set off is the group's legal right to settle an amount payable to a creditor by applying against it an amount receivable from the same counterparty. The relevant legal jurisdiction and laws applicable to the relationships between the parties are considered when assessing whether a current legally enforceable right to set off exists.

Provisions and contingencies

Provisions are recognized when the group has a present legal or constructive obligation as a result of a past event, it is probable that an outflow of resources embodying economic benefits will be required to settle the obligation and a reliable estimate can be made of the amount of the obligation. Where appropriate, the future cash flow estimates are adjusted to reflect risks specific to the liability.

If the effect of the time value of money is material, provisions are determined by discounting the expected future cash flows at a pre-tax risk-free rate that reflects current market assessments of the time value of money. Where discounting is used, the increase in the provision due to the passage of time is recognized within finance costs. A provision is discounted using either a nominal discount rate of 2.5% (2016 2%) or a real discount rate of 0.5% (2016 0.5%), as appropriate. Provisions are split between amounts expected to be settled within 12 months of the balance sheet date (current) and amounts expected to be settled later (non-current).

Contingent liabilities are possible obligations whose existence will only be confirmed by future events not wholly within the control of the group, or present obligations where it is not probable that an outflow of resources will be required or the amount of the obligation cannot be measured with sufficient reliability. Contingent liabilities are not recognized in the financial statements but are disclosed unless the possibility of an outflow of economic resources is considered remote.

Decommissioning

Liabilities for decommissioning costs are recognized when the group has an obligation to plug and abandon a well, dismantle and remove a facility or an item of plant and to restore the site on which it is located, and when a reliable estimate of that liability can be made. Where an obligation exists for a new facility or item of plant, such as oil and natural gas production or transportation facilities, this liability will be recognized on construction or installation. Similarly, where an obligation exists for a well, this liability is recognized when it is drilled. An obligation for

decommissioning may also crystallize during the period of operation of a well, facility or item of plant through a change in legislation or through a decision to terminate operations; an obligation may also arise in cases where an asset has been sold but the subsequent owner is no longer able to fulfil its decommissioning obligations, for example due to bankruptcy. The amount recognized is the present value of the estimated future expenditure determined in accordance with local conditions and requirements. The provision for the costs of decommissioning wells, production facilities and pipelines at the end of their economic lives is estimated using existing technology, at current prices or future assumptions, depending on the expected timing of the activity, and discounted using the real discount rate. The weighted average period over which these costs are generally expected to be incurred is estimated to be approximately 17 years.

An amount equivalent to the decommissioning provision is recognized as part of the corresponding intangible asset (in the case of an exploration or appraisal well) or property, plant and equipment. The decommissioning portion of the property, plant and equipment is subsequently depreciated at the same rate as the rest of the asset. Other than the unwinding of discount on the provision, any change in the present value of the estimated expenditure is reflected as an adjustment to the provision and the corresponding asset.

Environmental expenditures and liabilities

Environmental expenditures that are required in order for the group to obtain future economic benefits from its assets are capitalized as part of those assets. Expenditures that relate to an existing condition caused by past operations that do not contribute to future earnings are expensed.

Liabilities for environmental costs are recognized when a clean-up is probable and the associated costs can be reliably estimated. Generally, the timing of recognition of these provisions coincides with the commitment to a formal plan of action or, if earlier, on divestment or on closure of inactive sites.

The amount recognized is the best estimate of the expenditure required to settle the obligation. Provisions for environmental liabilities have been estimated using existing technology, at current prices and discounted using a real discount rate. The weighted average period over which these costs are generally expected to be incurred is estimated to be approximately five years.

1. Significant accounting policies, judgements, estimates and assumptions – continued

Significant judgements and estimates: provisions

For information on estimates and judgements relating to the Gulf of Mexico oil spill, see Note 2.

The group holds provisions for the future decommissioning of oil and natural gas production facilities and pipelines at the end of their economic lives. The largest decommissioning obligations facing BP relate to the plugging and abandonment of wells and the removal and disposal of oil and natural gas platforms and pipelines around the world. Most of these decommissioning events are many years in the future and the precise requirements that will have to be met when the removal event occurs are uncertain. Decommissioning technologies and costs are constantly changing, as are political, environmental, safety and public expectations. The timing and amounts of future cash flows are subject to significant uncertainty and estimation is required in determining the amounts of provisions to be recognized. Any changes in the expected future costs are reflected in both the provision and the asset.

If oil and natural gas production facilities and pipelines are sold to third parties, judgement is required to assess whether the new owner will be unable to meet their decommissioning obligations, whether BP would then be responsible for decommissioning, and if so the extent of that responsibility.

Decommissioning provisions associated with downstream and petrochemicals facilities are generally not recognized, as the potential obligations cannot be measured, given their indeterminate settlement dates. The group performs periodic reviews of its downstream and petrochemicals long-lived assets for any changes in facts and circumstances that might require the recognition of a decommissioning provision.

The provision for environmental liabilities is estimated based on current legal and constructive requirements, technology, price levels and expected plans for remediation. Actual costs and cash outflows can differ from current estimates because of changes in laws and regulations, public expectations, prices, discovery and analysis of site conditions and changes in clean-up technology.

The timing and amount of future expenditures relating to decommissioning and environmental liabilities are reviewed annually, together with the interest rate used in discounting the cash flows. The interest rate used to determine the balance sheet obligations at the end of 2017 was a real rate of 0.5% (2016 0.5%), which was based on long-dated US government bonds.

Further information about the group's provisions is provided in Note 21. Changes in assumptions in relation to the group's provisions could result in a material change in their carrying amounts within the next financial year.

As described in Note 31, the group is subject to further claims and actions for which no provisions have been recognized. The facts and circumstances relating to particular cases are evaluated regularly in determining whether a provision relating to a specific litigation should be recognized or revised. Accordingly, significant management judgement relating to provisions and contingent liabilities is required, since the outcome of litigation is difficult to predict.

Employee benefits

Wages, salaries, bonuses, social security contributions, paid annual leave and sick leave are accrued in the period in which the associated services are rendered by employees of the group. Deferred bonus arrangements that have a vesting date more than 12 months after the balance sheet date are valued on an actuarial basis using the projected unit credit method and amortized on a straight-line basis over the service period until the award vests. The accounting policies for share-based payments and for pensions and other post-retirement benefits are described below.

Share-based payments

Equity-settled transactions

The cost of equity-settled transactions with employees is measured by reference to the fair value of the equity instruments on the date on which they are granted and is recognized as an expense over the vesting period, which ends on the date on which the employees become fully entitled to the award. A corresponding credit is recognized within equity. Fair value is determined by using an appropriate, widely used, valuation model. In valuing equity-settled transactions, no account is taken of any vesting conditions, other than conditions linked to the price of the shares of the company (market conditions). Non-vesting conditions, such as the condition that employees contribute to a savings-related plan, are taken into account in the grant-date fair value, and failure to meet a non-vesting condition, where this is within the control of the employee is treated as a cancellation and any remaining unrecognized cost is expensed.

For other equity-settled share-based payment transactions, the goods or services received and the corresponding increase in equity are measured at the fair value of the goods or services received unless their fair value cannot be reliably estimated. If the fair value of the goods and services received cannot be reliably estimated, the transaction is measured by reference to the fair value of the equity instruments granted.

Cash-settled transactions

The cost of cash-settled transactions is recognized as an expense over the vesting period, measured by reference to the fair value of the corresponding liability which is recognized on the balance sheet. The liability is remeasured at fair value at each balance sheet date until settlement, with changes in fair value recognized in the income statement.

Pensions and other post-retirement benefits

The cost of providing benefits under the group's defined benefit plans is determined separately for each plan using the projected unit credit method, which attributes entitlement to benefits to the current period to determine current service cost and to the current and prior periods to determine the present value of the defined benefit obligation. Past service costs, resulting from either a plan amendment or a curtailment (a reduction in future obligations as a result of a material reduction in the plan membership), are recognized immediately when the company becomes committed to a change.

Net interest expense relating to pensions and other post-retirement benefits, which is recognized in the income statement, represents the net change in present value of plan obligations and the value of plan assets resulting from the passage of time, and is determined by applying the discount rate to the present value of the benefit obligation at the start of the year, and to the fair value of plan assets at the start of the year, taking into account expected changes in the obligation or plan assets during the year.

1. Significant accounting policies, judgements, estimates and assumptions – continued

Remeasurements of the defined benefit liability and asset, comprising actuarial gains and losses, and the return on plan assets (excluding amounts included in net interest described above) are recognized within other comprehensive income in the period in which they occur and are not subsequently reclassified to profit and loss.

The defined benefit pension plan surplus or deficit recognized on the balance sheet for each plan comprises the difference between the present value of the defined benefit obligation (using a discount rate based on high quality corporate bonds) and the fair value of plan assets out of which the obligations are to be settled directly. Fair value is based on market price information and, in the case of quoted securities, is the published bid price. Defined benefit pension plan surpluses are only recognized to the extent they are recoverable, typically by way of refund.

Contributions to defined contribution plans are recognized in the income statement in the period in which they become payable.

Significant estimate: pensions and other post-retirement benefits

Accounting for defined benefit pensions and other post-retirement benefits involves making significant estimates when measuring the group's pension plan surpluses and deficits. These estimates require assumptions to be made about many uncertainties.

Pensions and other post-retirement benefit assumptions are reviewed by management at the end of each year. These assumptions are used to determine the projected benefit obligation at the year end and hence the surpluses and deficits recorded on the group's balance sheet, and pension and other post-retirement benefit expense for the following year.

The assumptions that are the most significant to the amounts reported are the discount rate, inflation rate, salary growth and mortality levels. Assumptions about these variables are based on the environment in each country. The assumptions used vary from year to year, with resultant effects on future net income and net assets. Changes to some of these assumptions, in particular the discount rate and inflation rate, could result in material changes to the carrying amounts of the group's pension and other post-retirement benefit obligations within the next financial year. Any differences between these assumptions and the actual outcome will also affect future net income and net assets.

The values ascribed to these assumptions and a sensitivity analysis of the impact of changes in the assumptions on the benefit expense and obligation used are provided in Note 22.

Income taxes

Income tax expense represents the sum of current tax and deferred tax.

Income tax is recognized in the income statement, except to the extent that it relates to items recognized in other comprehensive income or directly in equity, in which case the related tax is recognized in other comprehensive income or directly in equity.

Current tax is based on the taxable profit for the period. Taxable profit differs from net profit as reported in the income statement because it is determined in accordance with the rules established by the applicable taxation authorities. It therefore excludes items of income or expense that are taxable or deductible in other periods as well as items that are never taxable or deductible. The group's liability for current tax is calculated using tax rates and laws that have been enacted or substantively enacted by the balance sheet date.

Deferred tax is provided, using the liability method, on temporary differences at the balance sheet date between the tax bases of assets and liabilities and their carrying amounts for financial reporting purposes. Deferred tax liabilities are recognized for all taxable temporary differences except:

- where the deferred tax liability arises on the initial recognition of goodwill
- where the deferred tax liability arises on the initial recognition of an asset or liability in a transaction that is not a business combination and, at the time of the transaction, affects neither accounting profit nor taxable profit or loss in respect of taxable temporary differences associated with investments in subsidiaries and associates and interests in joint arrangements, where the group is able to control the timing of the reversal of the temporary differences and it is probable that the temporary differences will not reverse in the foreseeable future.

Deferred tax assets are recognized for deductible temporary differences, carry-forward of unused tax credits and unused tax losses, to the extent that it is probable that taxable profit will be available against which the deductible temporary differences and the carry-forward of unused tax credits and unused tax losses can be utilized except where the deferred tax asset relating to the deductible temporary difference arises from the initial recognition of an asset or liability in a transaction that is not a business combination and, at the time of the transaction, affects neither

accounting profit nor taxable profit or loss. In respect of deductible temporary differences associated with investments in subsidiaries and associates and interests in joint arrangements, deferred tax assets are recognized only to the extent that it is probable that the temporary differences will reverse in the foreseeable future and taxable profit will be available against which the temporary differences can be utilized.

The carrying amount of deferred tax assets is reviewed at each balance sheet date and reduced to the extent that it is no longer probable that sufficient taxable profit will be available to allow all or part of the deferred tax asset to be utilized.

Deferred tax assets and liabilities are measured at the tax rates that are expected to apply in the period when the asset is realized or the liability is settled, based on tax rates (and tax laws) that have been enacted or substantively enacted at the balance sheet date. Deferred tax assets and liabilities are not discounted.

Deferred tax assets and liabilities are offset only when there is a legally enforceable right to set off current tax assets against current tax liabilities and when the deferred tax assets and liabilities relate to income taxes levied by the same taxation authority on either the same taxable entity or different taxable entities where there is an intention to settle the current tax assets and liabilities on a net basis or to realize the assets and settle the liabilities simultaneously.

Where tax treatments are uncertain, if it is considered probable that a taxation authority will accept the group's proposed tax treatment, income taxes are recognized consistent with the group's income tax filings. If it is not considered probable, the uncertainty is reflected using either the most likely amount or an expected value, depending on which method better predicts the resolution of the uncertainty.

1. Significant accounting policies, judgements, estimates and assumptions – continued

Significant judgements and estimates: income taxes

The computation of the group's income tax expense and liability involves the interpretation of applicable tax laws and regulations in many jurisdictions throughout the world. The resolution of tax positions taken by the group, through negotiations with relevant tax authorities or through litigation, can take several years to complete and in some cases it is difficult to predict the ultimate outcome. Therefore, judgement is required to determine whether provisions for income taxes are required and, if so, estimation is required of the amounts that could be payable.

In addition, the group has carry-forward tax losses and tax credits in certain taxing jurisdictions that are available to offset against future taxable profit. However, deferred tax assets are recognized only to the extent that it is probable that taxable profit will be available against which the unused tax losses or tax credits can be utilized. Management judgement is exercised in assessing whether this is the case and estimates are required to be made of the amount of future taxable profits that will be available.

To the extent that actual outcomes differ from management's estimates, income tax charges or credits, and changes in current and deferred tax assets or liabilities, may arise in future periods. For more information see Note 7.

The United States Tax Cuts and Jobs Act ('the Act') was signed into US law on 22 December 2017 and introduces significant modifications to income tax rates and the overall basis for determining tax payable on the foreign earnings of US group companies. Changes to current and deferred tax have been made based on the newly enacted law which is still subject to further clarification. Estimates and assumptions have been made where necessary to assess the impact of the Act on the group's tax balances and positions. These calculations will continue to be refined as information and clarifications from US legislative and regulatory bodies become available. See Note 7 for further information on the impact for the year ended 31 December 2017.

Judgement is also required when determining whether a particular tax is an income tax or another type of tax (for example a production tax). Accounting for deferred tax is applied to income taxes as described above, but is not applied to other types of taxes; rather such taxes are recognized in the income statement on an appropriate basis. In December 2016 BP renewed its onshore concession in Abu Dhabi. As a result of changes in the fiscal terms of the arrangement, the group's taxes payable relating to the concession are now principally reported as income taxes rather than as production taxes.

Customs duties and sales taxes

Customs duties and sales taxes which are passed on to customers are excluded from revenues and expenses. Assets and liabilities are recognized net of the amount of customs duties or sales tax except:

- Customs duties or sales taxes incurred on the purchase of goods and services which are not recoverable from the taxation authority are recognized as part of the cost of acquisition of the asset.

Receivables and payables are stated with the amount of customs duty or sales tax included.

The net amount of sales tax recoverable from, or payable to, the taxation authority is included within receivables or payables in the balance sheet.

Own equity instruments – treasury shares

The group's holdings in its own equity instruments are shown as deductions from shareholders' equity at cost. Treasury shares represent BP shares repurchased and available for specific and limited purposes. For accounting purposes, shares held in Employee Share Ownership Plans (ESOPs) to meet the future requirements of the employee share-based payment plans are treated in the same manner as treasury shares and are, therefore, included in the financial statements as treasury shares. Consideration, if any, received for the sale of such shares is also recognized in equity, with any difference between the proceeds from sale and the original cost being taken to the profit and loss account reserve. No gain or loss is recognized in the income statement on the purchase, sale, issue or cancellation of equity shares. Shares repurchased under the share buy-back programme which are immediately cancelled are not shown as treasury shares, but are shown as a deduction from the profit and loss account reserve in the group statement of changes in equity.

Revenue

Revenue arising from the sale of goods is recognized when the significant risks and rewards of ownership have passed to the buyer, which is typically at the point that title passes, and the revenue can be reliably measured.

Revenue is measured at the fair value of the consideration received or receivable and represents amounts receivable for goods provided in the normal course of business, net of discounts, customs duties and sales taxes.

Physical exchanges are reported net, as are sales and purchases made with a common counterparty, as part of an arrangement similar to a physical exchange. Similarly, where the group acts as agent on behalf of a third party to procure or market energy commodities, any associated fee income is recognized but no purchase or sale is recorded. Additionally, where forward sale and purchase contracts for oil, natural gas or power have been determined to be for short-term trading purposes, the associated sales and purchases are reported net within sales and other operating revenues whether or not physical delivery has occurred.

Generally, revenues from the production of oil and natural gas properties in which the group has an interest with joint operation partners are recognized on the basis of the group's working interest in those properties (the entitlement method). Differences between the production sold and the group's share of production are not significant.

Finance costs

Finance costs directly attributable to the acquisition, construction or production of qualifying assets, which are assets that necessarily take a substantial period of time to get ready for their intended use, are added to the cost of those assets until such time as the assets are substantially ready for their intended use. All other finance costs are recognized in the income statement in the period in which they are incurred.

Impact of new International Financial Reporting Standards

The group adopted Disclosure Initiative: Amendments to IAS 7 'Statement of cash flows' with effect from 1 January 2017. The amendments require the disclosure of information that enables users of the financial statements to evaluate changes in liabilities arising from financing activities, including changes arising from cash flows and non-cash changes. The amendments do not have any impact upon the primary financial statements. See Note 25 for further information.

1. Significant accounting policies, judgements, estimates and assumptions – continued

There are no other new or amended standards or interpretations adopted during the year that have a significant impact on the financial statements.

Not yet adopted

The following three pronouncements from the IASB will become effective for future financial reporting periods and have not been adopted by the group in these financial statements. Each of the standards has been adopted by the EU. There are no other standards and interpretations in issue but not yet adopted that the directors anticipate will have a material effect on the reported income or net assets of the group.

IFRS 9 'Financial Instruments'

IFRS 9 'Financial Instruments' was issued in July 2014 and replaces IAS 39 'Financial Instruments: Recognition and Measurement.' BP will adopt IFRS 9 in the financial reporting period commencing 1 January 2018.

IFRS 9 provides a single classification and measurement approach for financial assets that reflects the business model in which they are managed and their cash flow characteristics. Under the new standard the group's financial assets will be classified as measured at amortised cost, fair value through profit or loss, or fair value through other comprehensive income. For financial liabilities the existing classification and measurement requirements of IAS 39 are largely retained. Whilst financial assets will be reclassified into the categories required by IFRS 9, the group has not identified any significant impacts on the measurement of its financial assets and financial liabilities as a result of the classification and measurement requirements of the new standard. However, for existing equity instruments classified as available-for-sale investments under IAS 39, we intend to recognize fair value gains and losses in profit or loss under IFRS 9, rather than in other comprehensive income as was the case under IAS 39. An adjustment to the 2018 opening balance sheet is expected to be made to transfer \$17 million of fair value gains net of related tax from the available-for-sale investments reserve to the profit and loss account reserve. Prospectively, fair value gains and losses on new equity instruments may be recognized either in profit or loss or in other comprehensive income as an election on an instrument-by-instrument basis on initial recognition.

The financial asset impairment requirements of IFRS 9 introduce a forward-looking expected credit loss model that results in earlier recognition of credit losses than the incurred loss model of IAS 39. Given the short-term nature of the majority of its financial assets and the group's active management of credit risk, the group does not expect a significant impact on adoption of IFRS 9's impairment requirements. The adjustment to the 2018 opening balance sheet, which will reduce both the carrying amounts of financial assets and the profit and loss account reserve, makes up the majority of the adjustment on adoption of IFRS 9 in the table below. Subsequent movements in the expected loss reserve will be recognized in profit or loss.

The hedge accounting requirements of IFRS 9 have been simplified and are more closely aligned to an entity's risk management strategy. Under IFRS 9 all existing hedging relationships will qualify as continuing hedging relationships and the group also intends to apply hedge accounting prospectively to certain of its commodity price risk management activities for which hedge accounting was not possible under IAS 39. This will have no impact on the 2018 opening balance sheet.

IFRS 9 also introduces a new way of treating fair value movements on the time value and cross currency basis spreads of certain hedging instruments. Whereas under IAS 39 these movements were recognized in profit or loss, the group is either required, or will elect, to initially recognize these movements within equity to the extent that they relate to the hedged item. An adjustment to the 2018 opening balance sheet is expected to be made to transfer \$37 million of losses net of related tax from the profit and loss account reserve to the costs of hedging reserve for relevant hedging instruments existing on transition.

The expected overall impact of transition on 2018 opening net assets is summarized below.

| | \$ million |
|---|------------|
| At 31 December 2017 | 100,404 |
| Adjustment on adoption of IFRS 9 net of tax and including the group's share of equity-accounted entities ^a | (180) |
| At 1 January 2018 | 100,224 |

^a The adjustment on adoption of IFRS 9 mainly relates to an increase in the credit reserve of financial assets in the scope of IFRS 9's impairment requirements. IFRS 9 requires credit losses to be recognized on an expected rather

than incurred loss basis as was the case under IAS 39. The profit and loss account reserve is expected to reduce by an equivalent amount.

Other minor reserves adjustments, as described above, are expected to result in an increase to the profit and loss reserve of \$54 million offset by a reduction in the available-for-sale reserve of \$17 million and creation of the costs of hedging reserve of \$37 million.

Under IAS 39 the effective portion of the gain or loss on a cash flow hedging instrument is reported in other comprehensive income and is reclassified to the balance sheet as part of the initial carrying amount of the corresponding non-financial asset or liability. Under IFRS 9 the effective portion of the gain or loss continues to be reported in the statement of other comprehensive income but the transfer to the balance sheet will be shown in the statement of changes in equity.

IFRS 15 'Revenue from Contracts with Customers'

IFRS 15 'Revenue from Contracts with Customers' was issued in May 2014 and replaces IAS 18 'Revenue' and certain other standards and interpretations. IFRS 15 provides a single model of accounting for revenue arising from contracts with customers, focusing on the identification and satisfaction of performance obligations. BP will adopt IFRS 15 in the financial reporting period commencing 1 January 2018 and has elected to apply the 'modified retrospective' transition approach to implementation.

Under IFRS 15, revenue from contracts with customers is recognized when or as the group satisfies a performance obligation by transferring a promised good or service to a customer. A good or service is transferred when the customer obtains control of that good or service. The transfer of control of oil, natural gas, natural gas liquids, LNG, petroleum and chemical products, and other items sold by the group usually coincides with title passing to the customer and the customer taking physical possession. The group principally satisfies its performance obligations at a point in time and the amounts of revenue recognized relating to performance obligations satisfied over time are not significant. The accounting for revenue under IFRS 15 does not, therefore, represent a substantive change from the group's current practice for recognizing revenue from sales to customers.

Certain changes in accounting arising from the implementation of IFRS 15 have been identified but the new standard has had no material effect on the group's net assets as at 1 January 2018 and so no transition adjustment will be presented.

The most significant change identified is the accounting for revenues relating to oil and natural gas properties in which the group has an interest with joint operation partners. From 1 January 2018, BP ceased recognizing revenue in relation to the group's entitlement to the production from oil and gas properties based on its working interest, irrespective of whether the production was taken and sold to customers.

1. Significant accounting policies, judgements, estimates and assumptions – continued

In its 2018 financial statements the group will recognize revenue when sales are made to customers and production costs will be accrued or deferred to reflect differences between volumes taken and sold to customers and the group's ownership interest in total production volumes. This may result in changes in revenues and profits recognized in each period, but there will be no change in the total revenues and profits over the duration of the joint operation. Variability in oil and gas prices and the timing of when each partner in a joint operation takes its share of production mean that the precise impact on the group's revenues and profits in any particular future period is uncertain. However, the impact on the group's reported net assets as at 31 December 2017 and its reported profit for the year ended 31 December 2017 of applying this accounting would not have been material.

IFRS 15 requires the disclosure of revenue from contracts with customers disaggregated into categories that depict how the nature, amount, timing and uncertainty of revenue and cash flows are affected by economic factors. It is the group's intention to provide additional disclosure of revenue from contracts with customers disaggregated by product grouping. The group's sales and other operating revenues as reported for 2016 and 2017 by product grouping are presented below:

| | \$ million | |
|---|------------|---------|
| | 2017 | 2016 |
| Crude oil | 49,670 | 32,284 |
| Oil products | 159,821 | 126,465 |
| Natural gas and NGLs | 16,196 | 11,337 |
| Non-oil products and other operating revenues from contracts with customers | 12,538 | 11,487 |
| Revenue from contracts with customers ^a | 238,225 | 181,573 |
| Other revenues | 1,983 | 1,435 |
| Sales and other operating revenues ^a | 240,208 | 183,008 |

Amounts presented for 2016 and 2017 include revenues from the production of oil and natural gas properties in which the group has an interest with joint operation partners determined using the entitlements method in accordance with the group's accounting policy for those periods (see Revenue above). The amounts presented do not, therefore, represent the Revenue from contracts with customers or Sales and other operating revenues that would have been reported for those periods had IFRS 15 been applied using a fully retrospective transition approach. The differences are not significant. No restatement of prior periods will be made in relation to this change.

IFRS 16 'Leases'

IFRS 16 'Leases' provides a new model for lessee accounting in which all leases, other than short-term leases and leases of low-value items, will be accounted for by the recognition on the balance sheet of a right-to-use asset and a lease liability. The subsequent amortization of the right-to-use asset and the interest expense related to the lease liability will be recognized in profit or loss over the lease term. IFRS 16 replaces IAS 17 'Leases' and IFRIC 4 'Determining whether an arrangement contains a lease' and will be effective for financial reporting periods beginning on or after 1 January 2019.

BP will adopt IFRS 16 on 1 January 2019. An implementation project was initiated in 2016 and work is progressing including a system solution to hold lease data and generate accounting entries. Work streams have also been initiated to cover data and processes, accounting policy development and the impacts on key performance indicators and financial metrics.

On transition, BP intends to use the modified retrospective approach permitted by the standard in which the cumulative effect of initially applying the standard is recognized in opening retained earnings at the date of initial application with no restatement of comparative periods' financial information.

IFRS 16 introduces a revised definition of a lease. As permitted by the standard, BP does not intend to reassess the existing population of leases under the new definition and will only apply the new definition for the assessment of contracts entered into after the transition date.

The group's evaluation of the effect of adoption of the standard is ongoing but it is expected that it will have a material effect on the group's financial statements, significantly increasing the group's recognized assets and liabilities. It is expected that the presentation and timing of recognition of charges in the income statement will also change as the

operating lease expense currently reported under IAS 17, typically on a straight-line basis, will be replaced by depreciation of the right-to-use asset and interest on the lease liability. In the cash flow statement operating lease payments are currently presented within cash flows from operating activities but under IFRS 16 payments will be presented as financing cash flows, representing repayments of debt, and as operating cash flows, representing payments of interest. Variable lease payments that do not depend on an index or rate are not included in the lease liability and will continue to be presented as operating cash flows.

Information on the group's leases currently classified as operating leases, which are not recognized on the balance sheet, is presented in Note 26 and provides an indication of the magnitude of assets and liabilities that will be recognized on the balance sheet from 2019. However, the commitments information provided in Note 26 is on an undiscounted basis whereas the amounts recognized under the new standard will be on a discounted basis. The discount rates to be used on transition will be incremental borrowing rates as appropriate for each lease based on factors such as the lessee legal entity, lease term and currency. Currently the range of such incremental borrowing rates applicable for the majority of the leases for the group is 2% to 7%, with the rate primarily determined by the country of operation. There will likely be other differences in the amounts recognized and our evaluation of the precise impacts is ongoing. In particular, we are considering the accounting for leases of assets within joint operations within the Upstream segment. The operating lease commitments for leases within joint operations are included on the basis of BP's net working interest for the information provided in Note 26, irrespective of whether BP is the operator and whether the lease has been co-signed by the joint operators or not. In certain circumstances, where BP is the operator, it may be appropriate under IFRS 16 to recognize 100% of the future lease payments as the right-of-use asset and/or the lease liability. Similarly, it may be appropriate under IFRS 16 to recognize no right-of-use asset or lease liability in cases where BP is not the operator and is not a signatory to the lease. Our evaluation of this aspect is not yet complete. This could materially affect the amounts recognized relating to leases of drilling rigs for which BP's share of operating lease commitments at 31 December 2017 amounted to \$2,088 million on an undiscounted basis.

2. Significant event – Gulf of Mexico oil spill

As a consequence of the Gulf of Mexico oil spill in April 2010, BP continues to incur costs and has also recognized liabilities for certain future costs.

The impacts of the Gulf of Mexico oil spill on the income statement, balance sheet and cash flow statement of the group are included within the relevant line items in those statements and are shown in the table below.

| | 2017 | 2016 | \$ million 2015 |
|---|-----------|-----------|--------------------|
| Income statement | | | |
| Production and manufacturing expenses | 2,687 | 6,640 | 11,709 |
| Profit (loss) before interest and taxation | (2,687) | (6,640) | (11,709) |
| Finance costs | 493 | 494 | 247 |
| Profit (loss) before taxation | (3,180) | (7,134) | (11,956) |
| Less: Taxation | (2,222) | 3,105 | 3,492 |
| Profit (loss) for the period | (5,402) | (4,029) | (8,464) |
| Balance sheet | | | |
| Current assets | | | |
| Trade and other receivables | 252 | 194 | |
| Current liabilities | | | |
| Trade and other payables | (2,089) | (3,056) | |
| Provisions | (1,439) | (2,330) | |
| Net current assets (liabilities) | (3,276) | (5,192) | |
| Non-current assets | | | |
| Deferred tax | 2,067 | 2,973 | |
| Non-current liabilities | | | |
| Other payables | (12,253) | (13,522) | |
| Provisions | (1,141) | (112) | |
| Deferred tax | 3,634 | 5,119 | |
| Net non-current assets (liabilities) | (7,693) | (5,542) | |
| Net assets (liabilities) | (10,969) | (10,734) | |
| Cash flow statement | | | |
| Profit (loss) before taxation | (3,180) | (7,134) | (11,956) |
| Net charge for interest and other finance expense, less net interest paid | 493 | 494 | 247 |
| Net charge for provisions, less payments | 2,542 | 4,353 | 11,296 |
| (Increase) decrease in other current and non-current assets | (1,738) | (3,210) | — |
| Increase (decrease) in other current and non-current liabilities | (3,453) | (1,608) | (732) |
| Pre-tax cash flows | (5,336) | (7,105) | (1,145) |

Income statement

The group income statement for 2017 includes a pre-tax charge of \$3,180 million (2016 pre-tax charge of \$7,134 million) in relation to the Gulf of Mexico oil spill. The charge within production and manufacturing expenses in 2017 of \$2,687 million (2016 \$6,640 million) relates mainly to an increase in the provision relating to business economic loss (BEL) and other claims associated with the Deepwater Horizon Court Supervised Settlement Program (DHCSSP). The increase in the provision is primarily a result of significantly higher average claims determinations issued by the DHCSSP in the fourth quarter of the year and the continuing effect of the Fifth Circuit's May 2017 opinion on the matching of revenues with expenses when evaluating BEL claims. Finance costs of \$493 million (2016 \$494 million) reflect the unwinding of the discount on payables and, for 2016, provisions. Taxation includes a charge of \$3,012 million in respect of the revaluation of US deferred tax assets related to the Gulf of Mexico oil spill following the reduction in the US federal corporate income tax rate from 35% to 21% enacted in December 2017.

The cumulative amount charged to the income statement to date comprises spill response costs arising in the aftermath of the incident, amounts charged for the 2012 agreement with the US government to resolve all federal criminal claims arising from the incident, amounts charged for the 2016 consent decree and settlement agreement with the

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United States and the five Gulf coast states including amounts payable for natural resource damages, state claims and Clean Water Act penalties, operating costs, amounts charged upon initial recognition of the trust obligation, other litigation, claims, environmental and legal costs and estimated obligations for future costs, net of settlements agreed with the co-owners of the Macondo well and other third parties.

The cumulative pre-tax income statement charge since the incident amounts to \$65.8 billion and is analysed in the table below.

| | 2017 | 2016 | 2015 | \$ million Cumulative since the incident |
|--|-------|-------|--------|--|
| Environmental costs | — | — | 5,303 | 8,526 |
| Spill response costs | — | — | — | 14,304 |
| Litigation and claims costs | 2,647 | 6,596 | 5,758 | 41,781 |
| Clean Water Act penalties | — | — | 551 | 4,061 |
| Other costs | 40 | 44 | 97 | 1,309 |
| Settlements credited to the income statement | — | — | — | (5,681) |
| (Profit) loss before interest and taxation | 2,687 | 6,640 | 11,709 | 64,300 |
| Finance costs | 493 | 494 | 247 | 1,465 |
| (Profit) loss before taxation | 3,180 | 7,134 | 11,956 | 65,765 |

2. Significant event – Gulf of Mexico oil spill – continued

Provisions and contingent liabilities

Provisions

Movements during the year in the remaining provision, which relates to litigation and claims, are presented in the table below.

| | \$ million |
|--------------------------------|-----------------------|
| | 2017 |
| | Litigation and claims |
| At 1 January | 2,442 |
| Increase in provision | 2,647 |
| Reclassified to other payables | (759) |
| Utilization | (1,750) |
| At 31 December | 2,580 |
| Of which – current | 1,439 |
| – non-current | 1,141 |

Litigation and claims – PSC settlement

The Economic and Property Damages Settlement Agreement (EPD Settlement Agreement) with the Plaintiffs' Steering Committee (PSC) provides for a court-supervised settlement programme, the DHCSSP, which commenced operation on 4 June 2012. A separate claims administrator was appointed to pay medical claims and to implement other aspects of the Medical Benefits Class Action Settlement. For further information on the PSC settlements, see Legal proceedings on page 270.

The litigation and claims provision reflects the latest estimate for the remaining costs associated with the PSC settlement. These costs relate predominantly to BEL claims and associated administration costs. The amounts ultimately payable may differ from the amount provided and the timing of payments is uncertain.

The increase in the provision in the year is primarily a result of significantly higher average BEL claims determinations issued by the DHCSSP during the fourth quarter of the year and the effect of the May 2017 Fifth Circuit opinion on the policy addressing the matching of revenue with expenses in relation to BEL claims. See Legal proceedings on page 270 for further details on the May 2017 Fifth Circuit opinion and related appeals.

The DHCSSP's determination of BEL claims was substantially completed by the end of 2017. Nevertheless, a significant number of BEL claims determined by the DHCSSP have been and continue to be appealed by BP and/or the claimants, with the total value of claims under appeal or eligible for appeal approximately doubling during the fourth quarter of the year. The DHCSSP has reported that the total determinations for all economic and property damages claims amounted to \$14.2 billion and the total amount paid with respect to such claims was \$11.2 billion, in each case as at 31 December 2017. The difference in the above DHCSSP amounts primarily relates to determinations of BEL claims under appeal or eligible for appeal, along with certain other items, including claims determined eligible for payment and which are not being appealed.

The amount provided for includes the latest estimate of the amounts that are expected ultimately to be paid to resolve outstanding BEL claims. Claims under appeal will ultimately only be resolved once the full judicial appeals process has been concluded, including appeals to the Federal District Court and Fifth Circuit, as may be the case, or when settlements are reached with individual claimants. Depending upon the ultimate resolution of these claims (including how such resolution may be impacted by the May 2017 Fifth Circuit opinion), the amounts payable may differ from those currently provided.

The DHCSSP is expected to issue determinations with respect to remaining BEL claims in the first half of 2018. Whilst BP has a better understanding of the total population of remaining claims, there is uncertainty around how these claims will ultimately be determined, including in relation to the impact of the May 2017 Fifth Circuit opinion on the determination of such claims.

Payments to resolve outstanding claims under the PSC settlement are now expected to be made over a number of years. The timing of payments, however, is uncertain, and, in particular, will be impacted by how long it takes to resolve claims that have been appealed and may be appealed in the future.

Contingent liabilities

For information on legal proceedings relating to the Deepwater Horizon oil spill, see Legal proceedings on pages 270-273. Any further outstanding Deepwater Horizon related claims are not expected to have a material impact on the group's financial performance.

Other payables

Other payables include amounts payable under the 2016 consent decree and settlement agreement with the United States and five Gulf coast states, including amounts payable for natural resource damages, state claims and Clean Water Act penalties. On a discounted basis the amounts included in other payables for these elements of the agreements are \$5,556 million, \$2,841 million and \$4,047 million respectively at 31 December 2017. For full details of these agreements, see BP Annual Report and Form 20-F 2015.

In addition, other payables at 31 December 2017 also includes \$1,209 million in relation to the 2012 agreement with the US government to resolve all federal criminal claims arising from the incident, which falls due in 2018.

Cash flow statement

The impact on net cash provided by operating activities on a pre-tax basis amounted to an outflow of \$5,336 million (2016 outflow of \$7,105 million, 2015 outflow of \$1,145 million). On a post-tax basis, the amounts were an outflow of \$5,167 million (2016 outflow of \$6,892 million and 2015 outflow of \$1,130 million).

Cash outflows in 2016 and 2017 include payments made under the 2012 agreement with the US government to resolve all federal criminal claims arising from the incident and the 2016 consent decree and settlement agreement with the United States and the five Gulf coast states.

3. Disposals and impairment

The following amounts were recognized in the income statement in respect of disposals and impairments.

| | \$ million | | |
|--|------------|---------|------------|
| | 2017 | 2016 | 2015 |
| Gains on sale of businesses and fixed assets | | | |
| Upstream | 526 | 557 | 324 |
| Downstream | 674 | 561 | 316 |
| Other businesses and corporate | 10 | 14 | 26 |
| | 1,210 | 1,132 | 666 |
| | | | |
| | | | \$ million |
| | 2017 | 2016 | 2015 |
| Losses on sale of businesses and fixed assets | | | |
| Upstream | 127 | 169 | 124 |
| Downstream | 88 | 89 | 98 |
| Other businesses and corporate | — | 3 | 41 |
| | 215 | 261 | 263 |
| Impairment losses | | | |
| Upstream | 1,138 | 1,022 | 2,484 |
| Downstream | 69 | 84 | 265 |
| Other businesses and corporate | 32 | 11 | 155 |
| | 1,239 | 1,117 | 2,904 |
| Impairment reversals | | | |
| Upstream | (176) | (3,025) | (1,080) |
| Downstream | (62) | (17) | (178) |
| | (238) | (3,042) | (1,258) |
| Impairment and losses on sale of businesses and fixed assets | 1,216 | (1,664) | 1,909 |

Disposals

Disposal proceeds and principal gains and losses on disposals by segment are described below.

| | \$ million | | |
|---|------------|-------|-------|
| | 2017 | 2016 | 2015 |
| Proceeds from disposals of fixed assets | 2,936 | 1,372 | 1,066 |
| Proceeds from disposals of businesses, net of cash disposed | 478 | 1,259 | 1,726 |
| | 3,414 | 2,631 | 2,792 |
| By business | | | |
| Upstream | 1,183 | 839 | 769 |
| Downstream | 2,078 | 1,646 | 1,747 |
| Other businesses and corporate | 153 | 146 | 276 |
| | 3,414 | 2,631 | 2,792 |

At 31 December 2017, deferred consideration relating to disposals amounted to \$259 million receivable within one year (2016 \$255 million and 2015 \$41 million) and \$268 million receivable after one year (2016 \$271 million and 2015 \$385 million). In addition, contingent consideration receivable relating to the disposals amounted to \$237 million at 31 December 2017 (2016 \$131 million and 2015 \$292 million).

Upstream

In 2017, gains principally resulted from the disposal of a portion of our interest in the Perdido offshore hub in the US, and further gains associated with disposals in the UK.

In 2016, gains principally resulted from the contribution of BP's Norwegian upstream business into Aker BP ASA and from the sale of certain properties in the UK.

In 2015, gains principally resulted from the sale of our interests in the Central Area Transmission System in the North Sea, and from adjustments to prior year disposals in Canada.

Downstream

In 2017, gains principally resulted from the disposal of our interest in the SECCO joint venture and the disposal of certain midstream assets in Europe.

In 2016, gains principally resulted from the disposal of certain US and non-US midstream assets in our fuels business and the dissolution of our German refining joint operation with Rosneft.

In 2015, gains principally resulted from the disposal of our investment in the UTA European fuel cards business and our Australian bitumen business.

3. Disposals and impairment – continued

Summarized financial information relating to the sale of businesses is shown in the table below. The principal transaction categorized as a business disposal in 2017 was the disposal of our interest in the Forties Pipeline System in the North Sea. The principal transactions categorized as business disposals in 2016 were the contribution of BP's Norwegian upstream business into Aker BP ASA and the dissolution of the group's German refining joint operation with Rosneft. The principal transactions categorized as business disposals in 2015 were the sales of our interests in the Central Area Transmission System in the North Sea and in the UTA European fuel cards business.

| | \$ million | | |
|---|------------|---------|-------|
| | 2017 | 2016 | 2015 |
| Non-current assets | 735 | 4,794 | 154 |
| Current assets | 57 | 1,202 | 80 |
| Non-current liabilities | (173) | (2,558) | (70) |
| Current liabilities | (86) | (532) | (50) |
| Total carrying amount of net assets disposed | 533 | 2,906 | 114 |
| Recycling of foreign exchange on disposal | — | 25 | 16 |
| Costs on disposal ^a | 3 | 229 | 8 |
| | 536 | 3,160 | 138 |
| Gains on sale of businesses ^b | 44 | 593 | 446 |
| Total consideration | 580 | 3,753 | 584 |
| Non-cash consideration ^c | (216) | (2,698) | — |
| Consideration received (receivable) ^d | 121 | 223 | 1,116 |
| Proceeds from the sale of businesses related to completed transactions | 485 | 1,278 | 1,700 |
| Deposits ^e | (7) | (19) | 26 |
| Proceeds from the sale of businesses, net of cash disposed ^f | 478 | 1,259 | 1,726 |

^a 2016 includes amounts relating to the remeasurement to fair value of certain assets as a result of the dissolution of our German refining joint operation with Rosneft.

^b 2016 gains on sale of businesses include deferred amounts not recognized in the income statement.

^c 2016 non-cash consideration principally relates to the contribution of BP's Norwegian upstream business into Aker BP ASA in exchange for 30% interest in Aker BP ASA and the dissolution of the group's German refining joint operation with Rosneft.

^d Consideration received from prior year business disposals or to be received from current year disposals. 2015 included \$1,079 million of proceeds from our Toledo refinery partner, Husky Energy, in place of capital commitments relating to the original divestment transaction that have not been subsequently sanctioned.

^e Proceeds received in the current year in advance of business disposals, less deposits received in prior years in relation to business disposals completed in the current year.

^f Proceeds are stated net of cash and cash equivalents disposed of \$25 million (2016 \$676 million and 2015 \$9 million).

Impairments

Impairment losses and impairment reversals in each segment are described below. For information on significant estimates and judgements made in relation to impairments see Impairment of property, plant and equipment, intangibles and goodwill within Note 1. See also Note 10, Note 13 and Note 19 for further information on impairments by asset category.

Upstream

Impairment losses and reversals related primarily to producing and midstream assets.

The 2017 impairment losses of \$1,138 million related to a number of different assets, with the most significant charges arising in Lower 48 and the North Sea. Impairment losses within Upstream arose primarily as a result of changes in reserves estimates and the decision to dispose of certain assets, including the Forties Pipeline System business.

The 2017 impairment reversals of \$176 million related to a number of different assets, with the most significant reversals arising in the North Sea.

The 2016 impairment losses of \$1,022 million related to a number of different assets, with the most significant charges arising in the North Sea. Impairment losses within Upstream arose primarily as a result of revised cost estimates and decisions to dispose of certain assets.

The 2016 impairment reversals of \$3,025 million primarily related to the North Sea and Angola. The largest impairment reversals related to the Andrew area cash-generating unit (CGU) in the North Sea and the PSVM and Greater Plutonio CGUs in Angola but none of these were individually significant. In addition an impairment reversal was recorded in relation to the Block KG D6 CGU in India; and exploration costs were also written back during the period (see Note 6). The impairment reversals arose following a reduction in the discount rate applied, changes to future price assumptions, and also increased confidence in the progress of the KG D6 projects in India.

The 2015 impairment losses of \$2,484 million included \$761 million in Angola, of which \$371 million related to the Greater Plutonio CGU. Impairment losses also included \$830 million in relation to CGUs in the North Sea, of which \$328 million related to the Andrew area CGU. The impairment losses primarily arose as a result of a lower price environment in the near term, and were also affected to a lesser extent by certain technical reserves revisions and increases in decommissioning cost estimates. The 2015 impairment reversals of \$1,080 million included \$945 million in the North Sea business, of which \$473 million related to the Eastern Trough Area Project (ETAP) CGU. The impairment reversals mainly arose as a result of decreases in cost estimates and a reduction in the discount rate applied, offsetting the impact of lower prices in the near term.

Downstream

Impairment losses totalling \$69 million, \$84 million, and \$265 million were recognized in 2017, 2016 and 2015 respectively. The amount for 2015 was principally in relation to certain manufacturing assets in our petrochemicals business and certain US midstream assets, where the expected disposal proceeds were lower than the book values.

Other businesses and corporate

Impairment losses totalling \$32 million, \$11 million, and \$155 million were recognized in 2017, 2016 and 2015 respectively. The amount for 2015 was principally in respect of our US wind business.

4. Segmental analysis

The group's organizational structure reflects the various activities in which BP is engaged. At 31 December 2017, BP had three reportable segments: Upstream, Downstream and Rosneft.

Upstream's activities include oil and natural gas exploration, field development and production; midstream transportation, storage and processing; and the marketing and trading of natural gas, including liquefied natural gas (LNG), together with power and natural gas liquids (NGLs).

Downstream's activities include the refining, manufacturing, marketing, transportation, and supply and trading of crude oil, petroleum, petrochemicals products and related services to wholesale and retail customers.

BP's interest in Rosneft is accounted for using the equity method and is reported as a separate operating segment, reflecting the way in which the investment is managed.

Other businesses and corporate comprises the biofuels and wind businesses, the group's shipping and treasury functions, and corporate activities worldwide.

The accounting policies of the operating segments are the same as the group's accounting policies described in Note 1. However, IFRS requires that the measure of profit or loss disclosed for each operating segment is the measure that is provided regularly to the chief operating decision maker for the purposes of performance assessment and resource allocation. For BP, this measure of profit or loss is replacement cost profit or loss before interest and tax which reflects the replacement cost of supplies by excluding from profit or loss inventory holding gains and losses^a.

Replacement cost profit or loss for the group is not a recognized measure under IFRS.

Sales between segments are made at prices that approximate market prices, taking into account the volumes involved.

Segment revenues and segment results include transactions between business segments. These transactions and any unrealized profits and losses are eliminated on consolidation, unless unrealized losses provide evidence of an impairment of the asset transferred. Sales to external customers by region are based on the location of the group subsidiary which made the sale. The UK region includes the UK-based international activities of Downstream.

All surpluses and deficits recognized on the group balance sheet in respect of pension and other post-retirement benefit plans are allocated to Other businesses and corporate. However, the periodic expense relating to these plans is allocated to the operating segments based upon the business in which the employees work.

Certain financial information is provided separately for the US as this is an individually material country for BP, and for the UK as this is BP's country of domicile.

Inventory holding gains and losses represent the difference between the cost of sales calculated using the replacement cost of inventory and the cost of sales calculated on the first-in first-out (FIFO) method after adjusting for any changes in provisions where the net realizable value of the inventory is lower than its cost. Under the FIFO method, which we use for IFRS reporting, the cost of inventory charged to the income statement is based on its historical cost of purchase or manufacture, rather than its replacement cost. In volatile energy markets, this can have a significant distorting effect on reported income. The amounts disclosed represent the difference between the^a charge to the income statement for inventory on a FIFO basis (after adjusting for any related movements in net realizable value provisions) and the charge that would have arisen based on the replacement cost of inventory. For this purpose, the replacement cost of inventory is calculated using data from each operation's production and manufacturing system, either on a monthly basis, or separately for each transaction where the system allows this approach. The amounts disclosed are not separately reflected in the financial statements as a gain or loss. No adjustment is made in respect of the cost of inventories held as part of a trading position and certain other temporary inventory positions.

4. Segmental analysis – continued

| | | | | | | \$ million 2017 |
|---|----------|------------|---------|---|---|-----------------------|
| By business | Upstream | Downstream | Rosneft | Other businesses and corporate | Consolidation adjustment and eliminations | Total group |
| Segment revenues | | | | | | |
| Sales and other operating revenues | 45,440 | 219,853 | — | 1,469 | (26,554 |)240,208 |
| Less: sales and other operating revenues between segments | (24,179 |)(1,800 |)— | (575 |)26,554 | — |
| Third party sales and other operating revenues | 21,261 | 218,053 | — | 894 | — | 240,208 |
| Earnings from joint ventures and associates – after interest and tax | 930 | 674 | 922 | (19 |)— | 2,507 |
| Segment results | | | | | | |
| Replacement cost profit (loss) before interest and taxation | 5,221 | 7,221 | 836 | (4,445 |)(212 |)8,621 |
| Inventory holding gains (losses) ^a | 8 | 758 | 87 | — | — | 853 |
| Profit (loss) before interest and taxation | 5,229 | 7,979 | 923 | (4,445 |)(212 |)9,474 |
| Finance costs | | | | | | (2,074) |
| Net finance expense relating to pensions and other post-retirement benefits | | | | | | (220) |
| Profit (loss) before taxation | | | | | | 7,180 |
| Other income statement items | | | | | | |
| Depreciation, depletion and amortization | | | | | | |
| US | 4,631 | 875 | — | 65 | — | 5,571 |
| Non-US | 8,637 | 1,141 | — | 235 | — | 10,013 |
| Charges for provisions, net of write-back of unused provisions, including change in discount rate | 220 | 304 | — | 2,902 | — | 3,426 |
| Segment assets | | | | | | |
| Investments in joint ventures and associates | 12,093 | 2,349 | 10,059 | 484 | — | 24,985 |
| Additions to non-current assets ^b | 14,500 | 2,677 | — | 275 | — | 17,452 |

^a See explanation of inventory holding gains and losses on page 147.

^b Includes additions to property, plant and equipment; goodwill; intangible assets; investments in joint ventures; and investments in associates.

| | | | | | | \$ million 2016 |
|-------------|----------|------------|---------|---|---|-----------------------|
| By business | Upstream | Downstream | Rosneft | Other businesses and corporate | Consolidation adjustment and eliminations | Total group |

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| | | | | | | |
|---|---------|---------|-------|--------|---------|-----------|
| Segment revenues | | | | | | |
| Sales and other operating revenues | 33,188 | 167,683 | — | 1,667 | (19,530 |)183,008 |
| Less: sales and other operating revenues between segments | (17,581 |)(1,291 |)— | (658 |)19,530 | — |
| Third party sales and other operating revenues | 15,607 | 166,392 | — | 1,009 | — | 183,008 |
| Earnings from joint ventures and associates – after interest and tax | 723 | 608 | 647 | (18 |)— | 1,960 |
| Segment results | | | | | | |
| Replacement cost profit (loss) before interest and taxation | 574 | 5,162 | 590 | (8,157 |)(196 |)(2,027) |
| Inventory holding gains (losses) ^a | 60 | 1,484 | 53 | — | — | 1,597 |
| Profit (loss) before interest and taxation | 634 | 6,646 | 643 | (8,157 |)(196 |)(430) |
| Finance costs | | | | | | |
| Net finance expense relating to pensions and other post-retirement benefits | | | | | | (1,675) |
| Profit (loss) before taxation | | | | | | (190) |
| Other income statement items | | | | | | (2,295) |
| Depreciation, depletion and amortization | | | | | | |
| US | 4,396 | 856 | — | 71 | — | 5,323 |
| Non-US | 7,835 | 1,094 | — | 253 | — | 9,182 |
| Charges for provisions, net of write-back of unused provisions, including change in discount rate | 352 | 758 | — | 6,719 | — | 7,829 |
| Segment assets | | | | | | |
| Investments in joint ventures and associates | 10,968 | 3,035 | 8,243 | 455 | — | 22,701 |
| Additions to non-current assets ^b | 17,879 | 3,109 | — | 216 | — | 21,204 |

^a See explanation of inventory holding gains and losses on page 147.

^b Includes additions to property, plant and equipment; goodwill; intangible assets; investments in joint ventures; and investments in associates.

4. Segmental analysis – continued

| By business | Upstream | Downstream | Rosneft | Other businesses and corporate | Consolidation adjustment and eliminations | \$ million 2015 |
|---|----------|------------|---------|--------------------------------------|---|-----------------------|
| | | | | | | Total group |
| Segment revenues | | | | | | |
| Sales and other operating revenues | 43,235 | 200,569 | — | 2,048 | (22,958) |)222,894 |
| Less: sales and other operating revenues between segments | (21,949) |) (68) |) — | (941) |) 22,958 | — |
| Third party sales and other operating revenues | 21,286 | 200,501 | — | 1,107 | — | 222,894 |
| Earnings from joint ventures and associates – after interest and tax | 192 | 491 | 1,330 | (202) |) — | 1,811 |
| Segment results | | | | | | |
| Replacement cost profit (loss) before interest and taxation | (937) |) 7,111 | 1,310 | (13,477) |) (36) |) (6,029) |
| Inventory holding gains (losses) ^a | (30) |) (1,863) |) 4 | — | — | (1,889) |
| Profit (loss) before interest and taxation | (967) |) 5,248 | 1,314 | (13,477) |) (36) |) (7,918) |
| Finance costs | | | | | | (1,347) |
| Net finance expense relating to pensions and other post-retirement benefits | | | | | | (306) |
| Profit before taxation | | | | | | (9,571) |
| Other income statement items | | | | | | |
| Depreciation, depletion and amortization | | | | | | |
| US | 4,007 | 906 | — | 77 | — | 4,990 |
| Non-US | 8,866 | 1,162 | — | 201 | — | 10,229 |
| Charges for provisions, net of write-back of unused provisions, including change in discount rate | 824 | 611 | — | 11,781 | — | 13,216 |
| Segment assets | | | | | | |
| Investments in joint ventures and associates | 8,304 | 3,214 | 5,797 | 519 | — | 17,834 |
| Additions to non-current assets ^b | 17,635 | 2,130 | — | 315 | — | 20,080 |

^a See explanation of inventory holding gains and losses on page 147.

^b Includes additions to property, plant and equipment; goodwill; intangible assets; investments in joint ventures; and investments in associates.

| By geographical area | \$ million 2017 | | |
|---|--------------------|---------|---------|
| | US | Non-US | Total |
| Revenues | | | |
| Third party sales and other operating revenues ^a | 83,269 | 156,939 | 240,208 |
| Other income statement items | | | |
| Production and similar taxes | 52 | 1,723 | 1,775 |
| Results | | | |

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| | | | |
|---|--------|---------|---------|
| Replacement cost profit (loss) before interest and taxation | (266) | 8,887 | 8,621 |
| Non-current assets | | | |
| Non-current assets ^{b c} | 61,828 | 123,646 | 185,474 |

^a Non-US region includes UK \$48,837 million.

^b Non-US region includes UK \$18,004 million.

^c Includes property, plant and equipment; goodwill; intangible assets; investments in joint ventures; investments in associates; and non-current prepayments.

| | \$ million 2016 | | |
|---|-----------------------|---------|----------|
| By geographical area | US | Non-US | Total |
| Revenues | | | |
| Third party sales and other operating revenues ^a | 65,132 | 117,876 | 183,008 |
| Other income statement items | | | |
| Production and similar taxes | 155 | 528 | 683 |
| Results | | | |
| Replacement cost profit (loss) before interest and taxation | (8,311) | 6,284 | (2,027) |
| Non-current assets | | | |
| Non-current assets ^{b c} | 64,628 | 118,152 | 182,780 |

^a Non-US region includes UK \$37,119 million.

^b Non-US region includes UK \$18,615 million.

^c Includes property, plant and equipment; goodwill; intangible assets; investments in joint ventures; investments in associates; and non-current prepayments.

4. Segmental analysis – continued

| | | \$ million 2015 | |
|---|----------|-----------------------|---------|
| By geographical area | US | Non-US | Total |
| Revenues | | | |
| Third party sales and other operating revenues ^a | 74,162 | 148,732 | 222,894 |
| Other income statement items | | | |
| Production and similar taxes | 215 | 821 | 1,036 |
| Results | | | |
| Replacement cost profit (loss) before interest and taxation | (12,243) | 6,214 | (6,029) |
| Non-current assets | | | |
| Non-current assets ^{b c} | 67,776 | 111,106 | 178,882 |

^a Non-US region includes UK \$51,550 million.

^b Non-US region includes UK \$19,152 million.

^c Includes property, plant and equipment; goodwill; intangible assets; investments in joint ventures; investments in associates; and non-current prepayments.

5. Income statement analysis

| | \$ million | | |
|---|------------|-------|-------|
| | 2017 | 2016 | 2015 |
| Interest and other income | | | |
| Interest income | 288 | 183 | 226 |
| Other income | 369 | 323 | 385 |
| | 657 | 506 | 611 |
| Currency exchange losses charged to the income statement ^a | 83 | 698 | 8 |
| Expenditure on research and development | 391 | 400 | 418 |
| Finance costs | | | |
| Interest payable | 1,718 | 1,221 | 1,065 |
| Capitalized at 2.25% (2016 1.81% and 2015 1.75%) ^b | (297) | (244) | (179) |
| Unwinding of discount on provisions and other payables | 653 | 698 | 461 |
| | 2,074 | 1,675 | 1,347 |

^a Excludes exchange gains and losses arising on financial instruments measured at fair value through profit or loss.

^b Tax relief on capitalized interest is approximately \$64 million (2016 \$56 million and 2015 \$42 million).

6. Exploration for and evaluation of oil and natural gas resources

The following financial information represents the amounts included within the group totals relating to activity associated with the exploration for and evaluation of oil and natural gas resources. All such activity is recorded within the Upstream segment.

For information on significant judgements made in relation to oil and natural gas accounting see Intangible assets within Note 1.

| | \$ million | | |
|---|------------|--------|--------|
| | 2017 | 2016 | 2015 |
| Exploration and evaluation costs | | | |
| Exploration expenditure written off ^a | 1,603 | 1,274 | 1,829 |
| Other exploration costs | 477 | 447 | 524 |
| Exploration expense for the year | 2,080 | 1,721 | 2,353 |
| Impairment losses | — | 62 | — |
| Intangible assets – exploration and appraisal expenditure | 17,026 | 16,960 | 17,286 |
| Liabilities | 82 | 102 | 145 |

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| | | | |
|-----------------------------------|--------|--------|--------|
| Net assets | 16,944 | 16,858 | 17,141 |
| Cash used in operating activities | 477 | 447 | 524 |
| Cash used in investing activities | 1,901 | 2,920 | 1,216 |

^a 2017 includes a write-off in Angola of \$574 million in relation to licence relinquishment, and Egypt of \$208 million following a determination that no commercial hydrocarbons had been found. 2017 also includes a \$145-million write-off in relation to the value ascribed to certain licences in the deepwater Gulf of Mexico as part of the accounting for the acquisition of upstream assets from Devon Energy in 2011. 2016 included a \$601-million write-off in Brazil relating to the BM-C-34 licence and various write-offs in the Gulf of Mexico totalling \$611 million and India totalling \$216 million, partially offset by a write-back of \$319 million in India relating to block KG D6 as a result of increased confidence in the progress of the projects. An impairment reversal of \$234 million was also recorded in 2016 in relation to KG D6 in India. 2015 included a \$432-million write-off in Libya as there was significant uncertainty about the timing of future drilling operations. It also included a \$345-million write-off relating to the Gila discovery in the deepwater Gulf of Mexico and a \$336-million write-off relating to the Pandora discovery in Angola as development of these prospects was considered challenging. For further information see Upstream – Exploration on page 29.

The carrying amount, by location, of exploration and appraisal expenditure capitalized as intangible assets at 31 December 2017 is shown in the table below.

| Carrying amount | Location |
|-----------------|-------------------------------------|
| \$1 - 2 billion | Angola; India; Egypt; Middle East |
| \$2 - 3 billion | US - Gulf of Mexico; Canada; Brazil |

7. Taxation

Tax on profit

| | \$ million | | |
|---|------------|---------|---------|
| | 2017 | 2016 | 2015 |
| Current tax | | | |
| Charge for the year | 4,208 | 1,762 | 1,910 |
| Adjustment in respect of prior years ^a | 58 | (123) | (329) |
| | 4,266 | 1,639 | 1,581 |
| Deferred tax ^b | | | |
| Origination and reversal of temporary differences in the current year | (503) | (3,709) | (5,090) |
| Adjustment in respect of prior years ^c | (51) | (397) | 338 |
| | (554) | (4,106) | (4,752) |
| Tax charge (credit) on profit or loss | 3,712 | (2,467) | (3,171) |

^a The adjustments in respect of prior years reflect the reassessment of the current tax balances for prior years in light of changes in facts and circumstances during the year.

Origination and reversal of temporary differences in the current year include the impact of tax rate changes on deferred tax balances. 2017 includes a charge of \$859 million in respect of the reduction in the US federal corporate income tax rate from 35% to 21%, effective from 1 January 2018; this has been calculated as the change in deferred tax balances at 31 December 2017, excluding the increase in the provision in the fourth quarter for business economic loss and other claims associated with the Deepwater Horizon Court Supervised Settlement Program (DHCSSP). The adjustments in respect of prior periods reflect the reassessment of deferred tax balances for prior years in light of all other changes in facts and circumstances during the year.

^c 2016 included the reassessment of the recognition of deferred tax assets in relation to foreign tax credits in the US. In 2017, the total tax charge recognized within other comprehensive income was \$1,499 million (2016 \$752 million credit and 2015 \$1,140 million charge), primarily comprising the deferred tax impact of the remeasurements of the net pension and other post-retirement benefit liability or asset. See Note 30 for further information.

The total tax charge recognized directly in equity was \$263 million (2016 \$5 million credit and 2015 \$9 million charge); for 2017 this relates to current tax on transactions with non-controlling interests.

For information on significant estimates and judgements made in relation to taxation see Income taxes within Note 1.

Reconciliation of the effective tax rate

The following table provides a reconciliation of the group weighted average statutory corporate income tax rate to the effective tax rate of the group on profit or loss before taxation.

For 2016 and 2015, the items presented in the reconciliation are affected as a result of the overall tax credit for the year and the loss before taxation. In order to provide a more meaningful analysis of the effective tax rate, the table also presents separate reconciliations for the group excluding the impacts of the Gulf of Mexico oil spill and impairment losses and reversals, and for the impacts of the Gulf of Mexico oil spill and impairment losses and reversals in isolation.

| | \$ million | | | | | | |
|---------------------------------------|------------|--|--|---------|--|--|---------|
| | 2017 | 2016 excluding impacts of Gulf of Mexico oil spill and impairments | 2016 impacts of Gulf of Mexico oil spill and impairments | 2016 | 2015 excluding impacts of Gulf of Mexico oil spill and impairments | 2015 impacts of Gulf of Mexico oil spill and impairments | 2015 |
| Profit (loss) before taxation | 7,180 | 2,914 | (5,209) | (2,295) | 4,031 | (13,602) | (9,571) |
| Tax charge (credit) on profit or loss | 3,712 | (117) | (2,350) | (2,467) | 945 | (4,116) | (3,171) |
| Effective tax rate | 52% | (4)% | 45% | 107% | 23% | 30% | 33% |

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| | % of profit or loss before taxation | | | | | | | |
|--|-------------------------------------|-------|------|------|------|----|-------|---|
| Tax rate computed at the weighted average statutory rate ^a | 44 | 18 | 33 | 52 | 17 | 38 | 46 | |
| Increase (decrease) resulting from Tax reported in equity-accounted entities | (7 |) (15 |)— | 19 | (7 |)— | 3 | |
| Adjustments in respect of prior years | — | 5 | 13 | 23 | 1 | — | — | |
| Deferred tax not recognized | 9 | 26 | 3 | (27 |) 17 | (5 |) (14 |) |
| Tax incentives for investment ^b | (6 |) (9 |)— | 11 | (10 |)— | 4 | |
| Gulf of Mexico oil spill non-deductible costs | 1 | — | (2 |) (4 |)— | (2 |) (3 |) |
| Disposal impacts ^c | (1 |) (24 |)— | 30 | (3 |)— | 1 | |
| Foreign exchange | (4 |) 1 | — | (2 |) 18 | — | (8 |) |
| Items not deductible for tax purposes | 5 | 8 | — | (11 |) 10 | — | (4 |) |
| Impact of US tax reform ^d | 12 | — | — | — | — | — | — | |
| Decrease in rate of UK supplementary charge ^e | — | (15 |)— | 19 | (23 |)— | 10 | |
| Other ^b | (1 |) 1 | (2 |) (3 |) 3 | (1 |) (2 |) |
| Effective tax rate | 52 | (4 |) 45 | 107 | 23 | 30 | 33 | |

Calculated based on the statutory corporate income tax rate applicable in the countries in which the group operates, weighted by the profits and losses before tax in the respective countries. It reflects the mix of profits and losses arising in higher tax rate jurisdictions (primarily the Upstream segment) and lower tax rate jurisdictions (primarily the Downstream segment).

^b A minor amendment has been made to 2015 to conform with current year presentation. There is no impact on 2016.

^c In 2016 this related primarily to the tax impact on the contribution of BP's Norwegian upstream business into Aker BP ASA.

^d Relates to the deferred tax impact of the reduction in the US federal corporate income tax rate from 35% to 21%, effective from 1 January 2018.

^e Relates to the deferred tax impact of the reductions in the UK supplementary charge rate applicable to profits arising in the North Sea from 20% to 10% in 2016 and from 32% to 20% in 2015.

7. Taxation – continued

Deferred tax

| | \$ million | |
|---|------------|----------|
| Analysis of movements during the year in the net deferred tax liability | 2017 | 2016 |
| At 1 January | 2,497 | 8,054 |
| Exchange adjustments | 12 | (71) |
| Charge (credit) for the year in the income statement | (554) | (4,106) |
| Charge (credit) for the year in other comprehensive income | 1,503 | (714) |
| Charge (credit) for the year in equity | 1 | (5) |
| Acquisitions and disposals | 54 | (661) |
| At 31 December | 3,513 | 2,497 |

The following table provides an analysis of deferred tax in the income statement and the balance sheet by category of temporary difference:

| | \$ million | | | | |
|---|-------------------------------|---------|---------|----------------------------|-----------|
| | Income statement ^a | | | Balance sheet ^a | |
| | 2017 | 2016 | 2015 | 2017 | 2016 |
| Deferred tax liability | | | | | |
| Depreciation | (3,971) | 81 | (102) | 23,045 | 26,864 |
| Pension plan surpluses | (12) | (12) | 84 | 1,319 | 171 |
| Derivative financial instruments | (27) | (230) | (326) | 623 | 761 |
| Other taxable temporary differences | (64) | (122) | 59 | 1,317 | 1,254 |
| | (4,074) | (283) | (285) | 26,304 | 29,050 |
| Deferred tax asset | | | | | |
| Pension plan and other post-retirement benefit plan deficits | 340 | 98 | 12 | (1,386) | (1,889) |
| Decommissioning, environmental and other provisions | 3,503 | 591 | (2,513) | (8,618) | (12,108) |
| Derivative financial instruments | (50) | (6) | 62 | (672) | (734) |
| Tax credits ^b | 1,476 | (5,177) | 256 | (3,750) | (5,225) |
| Loss carry forward | (964) | 249 | (2,239) | (6,493) | (5,458) |
| Other deductible temporary differences | (785) | 422 | (45) | (1,872) | (1,139) |
| | 3,520 | (3,823) | (4,467) | (22,791) | (26,553) |
| Net deferred tax charge (credit) and net deferred tax liability | (554) | (4,106) | (4,752) | 3,513 | 2,497 |
| Of which – deferred tax liabilities | | | | 7,982 | 7,238 |
| – deferred tax assets | | | | 4,469 | 4,741 |

^a The 2017 income statement and balance sheet are impacted by the reduction in US federal corporate income tax rate from 35% to 21%, effective from 1 January 2018.

^b The 2016 income statement reflected the impact of a loss carry-back claim in the US, displacing foreign tax credits utilized in prior periods which are now carried forward.

The recognition of deferred tax assets of \$3,503 million (2016 \$3,839 million), in entities which have suffered a loss in either the current or preceding period, is supported by forecasts which indicate that sufficient future taxable profits will be available to utilize such assets. For 2017, \$2,067 million relates to the US (2016 \$2,974 million) and \$1,336 million relates to India (2016 \$699 million).

A summary of temporary differences, unused tax credits and unused tax losses for which deferred tax has not been recognized is shown in the table below.

| | \$ billion | |
|--|------------|------|
| At 31 December | 2017 | 2016 |
| Unused US state tax losses ^a | 6.8 | 9.6 |
| Unused tax losses – other jurisdictions ^b | 4.5 | 5.2 |
| Unused tax credits | 20.1 | 19.2 |

| | | |
|---|------|------|
| of which – arising in the UK | 16.3 | 17.1 |
| – arising in the US | 3.8 | 2.0 |
| Deductible temporary differences ^e | 31.4 | 26.7 |
| Taxable temporary differences associated with investments in subsidiaries and equity-accounted entities | 1.6 | 3.1 |

^a These losses expire in the period 2018-2037 with applicable tax rates ranging from 3% to 12%.

^b The majority of the unused tax losses have no fixed expiry date.

^c The UK unused tax credits arise predominantly in overseas branches of UK entities based in jurisdictions with higher statutory corporate income tax rates than the UK. No deferred tax asset has been recognized on these tax credits as they are unlikely to have value in the future; UK taxes on these overseas branches are largely mitigated by double tax relief in respect of overseas tax. These tax credits have no fixed expiry date.

^d The US unused tax credits expire in the period 2018-2027.

^e The majority comprises fixed asset temporary differences in the UK. Substantially all of the temporary differences have no expiry date.

| | \$ million | | |
|--|------------|------|------|
| Impact of previously unrecognized deferred tax or write-down of deferred tax assets on tax charge | 2017 | 2016 | 2015 |
| Current tax benefit relating to the utilization of previously unrecognized deferred tax assets | 22 | 40 | 123 |
| Deferred tax benefit arising from the reversal of a previous write-down of deferred tax assets | — | 269 | — |
| Deferred tax benefit relating to the recognition of previously unrecognized deferred tax assets ^a | 436 | 394 | — |
| Deferred tax expense arising from the write-down of a previously recognized deferred tax asset | 78 | 55 | 768 |

^a 2017 includes the reassessment of prior year deferred tax balances in India in light of changes in facts and circumstances during the year.

8. Dividends

The quarterly dividend paid on 29 March 2018 in respect of the fourth quarter 2017 was 10 cents per ordinary share (\$0.60 per American Depositary Share (ADS)). The corresponding amount in sterling was announced on 19 March 2018. A scrip dividend alternative is available, allowing shareholders to elect to receive their dividend in the form of new ordinary shares and ADS holders in the form of new ADSs.

| | Pence per share | | | Cents per share | | | \$ million | | |
|--|-----------------|---------|---------|-----------------|-------|-------|------------|-------|-------|
| | 2017 | 2016 | 2015 | 2017 | 2016 | 2015 | 2017 | 2016 | 2015 |
| Dividends announced and paid in cash | | | | | | | | | |
| Preference shares | | | | | | | 1 | 1 | 2 |
| Ordinary shares | | | | | | | | | |
| March | 8.1587 | 7.0125 | 6.6699 | 10.00 | 10.00 | 10.00 | 1,303 | 1,099 | 1,708 |
| June | 7.7563 | 6.9167 | 6.5295 | 10.00 | 10.00 | 10.00 | 1,546 | 1,168 | 1,691 |
| September | 7.6213 | 7.5578 | 6.5488 | 10.00 | 10.00 | 10.00 | 1,676 | 1,161 | 1,717 |
| December | 7.4435 | 7.9313 | 6.6342 | 10.00 | 10.00 | 10.00 | 1,627 | 1,182 | 1,541 |
| | 30.9798 | 29.4183 | 26.3824 | 40.00 | 40.00 | 40.00 | 6,153 | 4,611 | 6,659 |
| Dividend announced, paid in March 2018 | | | | 10.00 | | | 1,828 | | |

The details of the scrip dividends issued are shown in the table below.

| | 2017 | 2016 | 2015 |
|-------------------------------------|---------|---------|---------|
| Number of shares issued (thousand) | 289,789 | 548,005 | 102,810 |
| Value of shares issued (\$ million) | 1,714 | 2,858 | 642 |

The financial statements for the year ended 31 December 2017 do not reflect the dividend announced on 6 February 2018 and paid in March 2018; this will be treated as an appropriation of profit in the year ending 31 December 2018.

9. Earnings per share

| | Cents per share | | |
|----------------------------|-----------------|------|---------|
| | 2017 | 2016 | 2015 |
| Per ordinary share | | | |
| Basic earnings per share | 17.20 | 0.61 | (35.39) |
| Diluted earnings per share | 17.10 | 0.60 | (35.39) |

| | Dollars per share | | |
|-------------------------------------|-------------------|------|--------|
| | 2017 | 2016 | 2015 |
| Per American Depositary Share (ADS) | | | |
| Basic earnings per share | 1.03 | 0.04 | (2.12) |
| Diluted earnings per share | 1.03 | 0.04 | (2.12) |

Basic earnings per ordinary share amounts are calculated by dividing the profit (loss) for the year attributable to ordinary shareholders by the weighted average number of ordinary shares outstanding during the year.

The average number of shares outstanding includes certain shares that will be issuable in the future under employee share-based payment plans and excludes treasury shares, which includes shares held by the Employee Share Ownership Plan trusts (ESOPs).

For the diluted earnings per share calculation, the weighted average number of shares outstanding during the year is adjusted for the average number of shares that are potentially issuable in connection with employee share-based payment plans. If the inclusion of potentially issuable shares would decrease loss per share, the potentially issuable shares are excluded from the weighted average number of shares outstanding used to calculate diluted earnings per share. A dilutive effect relating to potentially issuable shares has not been included, therefore, in the calculation of diluted earnings per share for 2015.

| | 2017 | 2016 | 2015 |
|---|-------|------|---------|
| Profit (loss) attributable to BP shareholders | 3,389 | 115 | (6,482) |
| Less: dividend requirements on preference shares | 1 | 1 | 2 |
| Profit (loss) for the year attributable to BP ordinary shareholders | 3,388 | 114 | (6,484) |

| | 2017 | 2016 | Shares thousand 2015 |
|---|------------|------------|----------------------------|
| Basic weighted average number of ordinary shares | 19,692,613 | 18,744,800 | 18,323,646 |
| Potential dilutive effect of ordinary shares issuable under employee share-based payment plans | 123,829 | 110,519 | — |
| Weighted average number of ordinary shares outstanding used to calculate diluted earnings per share | 19,816,442 | 18,855,319 | 18,323,646 |

| | 2017 | 2016 | Shares thousand 2015 |
|--|-----------|-----------|----------------------------|
| Basic weighted average number of ordinary shares - ADS equivalent | 3,282,102 | 3,124,133 | 3,053,941 |
| Potential dilutive effect of ordinary shares (ADS equivalent) issuable under employee share-based payment plans | 20,638 | 18,420 | — |
| Weighted average number of ordinary shares (ADS equivalent) outstanding used to calculate diluted earnings per share | 3,302,740 | 3,142,553 | 3,053,941 |

9. Earnings per share – continued

The number of ordinary shares outstanding at 31 December 2017, excluding treasury shares, and including certain shares that will be issuable in the future under employee share-based payment plans was 19,817,325,868. Between 31 December 2017 and 8 March 2018, the latest practicable date before the completion of these financial statements, there was a net increase of 61,262,729 in the number of ordinary shares outstanding as a result of share issues in relation to employee share-based payment plans.

Employee share-based payment plans

The group operates share and share option plans for directors and certain employees to obtain ordinary shares and ADSs in the company. Information on these plans for directors is shown in the Directors remuneration report on pages 90-112.

The following table shows the number of shares potentially issuable under equity-settled employee share option plans, including the number of options outstanding, the number of options exercisable at the end of each year, and the corresponding weighted average exercise prices. The dilutive effect of these plans at 31 December is also shown.

| Share options | 2017 | | 2016 | |
|-----------------|---|---------------------------------------|---|---------------------------------------|
| | Number of options ^{ab} thousand | Weighted average exercise price \$ | Number of options ^{ab} thousand | Weighted average exercise price \$ |
| Outstanding | 22,399 | 4.34 | 26,284 | 3.85 |
| Exercisable | 1,112 | 4.46 | 498 | 4.59 |
| Dilutive effect | 5,145 | n/a | 3,380 | n/a |

^a Numbers of options shown are ordinary share equivalents (one ADS is equivalent to six ordinary shares).

^b At 31 December 2017 the quoted market price of one BP ordinary share was £5.23 (2016 £5.10).

In addition, the group operates a number of equity-settled employee share plans under which share units are granted to the group's senior leaders and certain other employees. These plans typically have a three-year performance or restricted period during which the units accrue net notional dividends which are treated as having been reinvested. Leaving employment will normally preclude the conversion of units into shares, but special arrangements apply for participants that leave for qualifying reasons. The number of shares that are expected to vest each year under employee share plans are shown in the table below. The dilutive effect of the employee share plans at 31 December is also shown.

| Share plans | 2017 | 2016 |
|-----------------|---|---|
| | Number of shares ^a thousand | Number of shares ^a thousand |
| Vesting | | |
| Within one year | 101,550 | 92,529 |
| 1 to 2 years | 108,373 | 94,760 |
| 2 to 3 years | 85,878 | 102,342 |
| 3 to 4 years | 413 | 680 |
| Over 4 years | 166 | 319 |
| | 296,380 | 290,630 |
| Dilutive effect | 126,122 | 113,012 |

^a Numbers of shares shown are ordinary share equivalents (one ADS is equivalent to six ordinary shares).

There has been a net decrease of 34,787,890 in the number of potential ordinary shares relating to employee share-based payment plans between 31 December 2017 and 8 March 2018.

10. Property, plant and equipment

| | Land and land improvements | Buildings | Oil and gas properties ^a | Plant, machinery and equipment | Fittings, fixtures and office equipment | Transportation | Oil depots, storage tanks and service stations | Total | \$ million |
|-------------------------------------|----------------------------|-----------|-------------------------------------|--------------------------------|---|----------------|--|----------|------------|
| Cost | | | | | | | | | |
| At 1 January 2017 | 3,066 | 2,235 | 215,564 | 43,725 | 2,670 | 14,000 | 7,623 | 288,883 | |
| Exchange adjustments | 264 | 42 | — | 1,251 | 91 | 28 | 772 | 2,448 | |
| Additions | 264 | 94 | 12,366 | 1,890 | 240 | 347 | 575 | 15,776 | |
| Acquisitions | — | — | — | 41 | — | 228 | 1 | 270 | |
| Transfers | — | — | 451 | — | — | — | — | 451 | |
| Deletions | (120) | (798) | (2,327) | (245) | (148) | (3,829) | (223) | (7,690) | |
| At 31 December 2017 | 3,474 | 1,573 | 226,054 | 46,662 | 2,853 | 10,774 | 8,748 | 300,138 | |
| Depreciation | | | | | | | | | |
| At 1 January 2017 | 584 | 1,062 | 122,428 | 18,686 | 2,022 | 9,823 | 4,521 | 159,126 | |
| Exchange adjustments | 33 | 27 | — | 647 | 67 | 19 | 466 | 1,259 | |
| Charge for the year | 90 | 94 | 12,385 | 1,764 | 185 | 381 | 350 | 15,249 | |
| Impairment losses | 3 | 35 | 624 | 35 | — | 479 | 17 | 1,193 | |
| Impairment reversals | — | — | (135) | — | — | (72) | — | (207) | |
| Deletions | (27) | (400) | (1,976) | (136) | (138) | (3,107) | (169) | (5,953) | |
| At 31 December 2017 | 683 | 818 | 133,326 | 20,996 | 2,136 | 7,523 | 5,185 | 170,667 | |
| Net book amount at 31 December 2017 | 2,791 | 755 | 92,728 | 25,666 | 717 | 3,251 | 3,563 | 129,471 | |
| Cost | | | | | | | | | |
| At 1 January 2016 | 3,194 | 2,877 | 215,566 | 45,744 | 2,866 | 14,038 | 8,418 | 292,703 | |
| Exchange adjustments | (119) | (37) | — | (342) | (127) | (9) | (375) | (1,009) | |
| Additions | 106 | 24 | 12,036 | 1,699 | 192 | 156 | 568 | 14,781 | |
| Acquisitions | 46 | — | — | 793 | — | — | — | 839 | |
| Remeasurements ^b | — | — | — | (1,505) | — | — | — | (1,505) | |
| Transfers | — | — | 1,629 | — | — | — | — | 1,629 | |
| Deletions | (161) | (629) | (13,667) | (2,664) | (261) | (185) | (988) | (18,555) | |
| At 31 December 2016 | 3,066 | 2,235 | 215,564 | 43,725 | 2,670 | 14,000 | 7,623 | 288,883 | |
| Depreciation | | | | | | | | | |
| At 1 January 2016 | 642 | 1,157 | 123,831 | 20,652 | 2,084 | 9,439 | 5,140 | 162,945 | |
| Exchange adjustments | (9) | (44) | — | (264) | (96) | (6) | (218) | (637) | |
| Charge for the year | 40 | 166 | 11,213 | 1,740 | 214 | 397 | 384 | 14,154 | |

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| | | | | | | | | |
|--|-------|-------|----------|---------|-------|-------|-------|------------|
| Remeasurements ^b | — | — | — | (1,319 |)— | — | — | (1,319) |
| Impairment losses | 9 | 123 | 518 | 11 | 79 | 256 | 4 | 1,000 |
| Impairment reversals | (2 |)— | (2,923 |)(12 |)— | (101 |)(4 |)(3,042) |
| Transfers | — | — | 5 | — | — | — | — | 5 |
| Deletions | (96 |)(340 |)(10,216 |)(2,122 |)(259 |)(162 |)(785 |)(13,980) |
| At 31 December 2016 | 584 | 1,062 | 122,428 | 18,686 | 2,022 | 9,823 | 4,521 | 159,126 |
| Net book amount at 31 December 2016 | 2,482 | 1,173 | 93,136 | 25,039 | 648 | 4,177 | 3,102 | 129,757 |
| Assets held under finance leases at net book amount included above | | | | | | | | |
| At 31 December 2017 | — | 2 | 16 | 238 | — | 233 | 7 | 496 |
| At 31 December 2016 | — | 2 | 21 | 266 | — | 241 | — | 530 |
| Assets under construction included above | | | | | | | | |
| At 31 December 2017 | | | | | | | | 23,789 |
| At 31 December 2016 | | | | | | | | 29,177 |

^a For information on significant estimates and judgements made in relation to the estimation of oil and natural reserves see Property, plant and equipment within Note 1.

^b Relates to the remeasurement to fair value of previously held interests in certain assets as a result of the dissolution on 31 December 2016 of the group's German refining joint operation with Rosneft.

11. Capital commitments

Authorized future capital expenditure for property, plant and equipment by group companies for which contracts had been signed at 31 December 2017 amounted to \$11,340 million (2016 \$11,207 million). BP's share of capital commitments of joint ventures amounted to \$483 million (2016 \$522 million).

12. Goodwill and impairment review of goodwill

| | \$ million | |
|--------------------------------|------------|--------|
| | 2017 | 2016 |
| Cost | | |
| At 1 January | 11,805 | 12,236 |
| Exchange adjustments | 336 | (544) |
| Acquisitions | 83 | 247 |
| Deletions | (61) | (134) |
| At 31 December | 12,163 | 11,805 |
| Impairment losses | | |
| At 1 January | 611 | 609 |
| Exchange adjustments | 1 | 5 |
| Deletions | — | (3) |
| At 31 December | 612 | 611 |
| Net book amount at 31 December | 11,551 | 11,194 |
| Net book amount at 1 January | 11,194 | 11,627 |

Impairment review of goodwill

| | \$ million | |
|--------------------------------|------------|--------|
| | 2017 | 2016 |
| Goodwill at 31 December | | |
| Upstream | 7,728 | 7,726 |
| Downstream | 3,758 | 3,401 |
| Other businesses and corporate | 65 | 67 |
| | 11,551 | 11,194 |

Goodwill acquired through business combinations has been allocated to groups of cash-generating units that are expected to benefit from the synergies of the acquisition. For Upstream, goodwill is allocated to all oil and gas assets in aggregate at the segment level. For Downstream, goodwill has been allocated to Lubricants and Other.

For information on significant estimates and judgements made in relation to impairments see Impairment of property, plant and equipment, intangible assets and goodwill within Note 1.

Upstream

| | \$ million | |
|---|------------|--------|
| | 2017 | 2016 |
| Goodwill | 7,728 | 7,726 |
| Excess of recoverable amount over carrying amount | 27,705 | 26,035 |

Consistent with the prior year the review for impairment was carried out during the third quarter. As permitted by IAS 36, the detailed calculations of recoverable amount performed in 2016 were used in the 2017 impairment test as the criteria in that standard were considered satisfied: the headroom was substantial in 2016; there have been no significant changes in the assets and liabilities; and the likelihood that the recoverable amount would be less than the carrying amount at the time was remote. The table above shows the carrying amount of goodwill for the segment at year-end and the excess of the recoverable amount over the carrying amount at the date of the test (the headroom). The recoverable amount for 2017 is based upon the remaining future cash flows from the 2016 detailed calculation. The headroom presented for 2017 does not represent the headroom that would result if a test was run based on discounted future cash flows estimated using updated 2017 data and assumptions.

The fair value less costs of disposal is based on the cash flows expected to be generated by the projected oil or natural gas production profiles up to the expected dates of cessation of production of each producing field, appropriately risked for the purposes of goodwill impairment testing. Midstream and supply and trading activities and equity-accounted entities are generally not included in the impairment review of goodwill, because they are not part of the grouping of cash-generating units to which the goodwill relates and which is used to monitor the goodwill for internal management purposes. Where such activities form part of a wider Upstream cash-generating unit, they are reflected in the test. The fair value calculation is based primarily on level 3 inputs as defined by the IFRS 13 'Fair value measurement' hierarchy. As the production profile and related cash flows can be estimated from BP's experience,

management believes that the estimated cash flows expected to be generated over the life of each field is the appropriate basis upon which to assess goodwill for impairment. The estimated date of cessation of production depends on the interaction of a number of variables, such as the recoverable quantities of hydrocarbons, the production profile of the hydrocarbons, the cost of the development of the infrastructure necessary to recover the hydrocarbons, production costs, the contractual duration of the production concession and the selling price of the hydrocarbons produced. As each producing field has specific reservoir characteristics and economic circumstances, the cash flows of the fields are computed using appropriate individual economic models and key assumptions agreed by BP management. Capital expenditure, operating costs and expected hydrocarbon production profiles are derived from the business segment plan. Estimated production volumes and cash flows up to the date of cessation of production on a field-by-field basis are developed to be consistent with this. The production profiles used are consistent with the reserve and resource volumes approved as part of BP's centrally controlled process for the estimation of proved and probable reserves and total resources. Exploration and appraisal assets are deemed to have a recoverable amount equal to their carrying amount.

The key assumptions used in the fair value less costs of disposal calculation are oil and natural gas prices, production volumes and the discount rate. The price and discount rate assumptions for 2016 were used as disclosed in Note 1. The fair value less costs of disposal calculations were prepared solely for the purposes of determining whether the goodwill balance was impaired. Estimated future cash flows were prepared on the basis of certain assumptions prevailing at the time of the prior year test. The actual outcomes may differ from the assumptions made. For example, reserves and resources estimates and production forecasts are subject to revision as further technical information becomes available and economic conditions change, and future commodity prices may differ from the forecasts used in the calculations.

12. Goodwill and impairment review of goodwill – continued

The sensitivities to different variables were estimated for 2016 using certain simplifying assumptions. For example, lower oil and gas price sensitivities do not reflect the specific impacts for each contractual arrangement and will not capture fully any favourable impacts that may arise from cost deflation. Therefore a detailed calculation at any given price or production profile may produce a different result.

For 2016 it is estimated that if the oil price assumption for all future years was approximately \$13 per barrel lower in each year, this would cause the recoverable amount to be equal to the carrying amount of goodwill and related net non-current assets of the segment. It is estimated that if the gas price assumption for all future years was approximately \$2 per mmBtu lower in each year, this would cause the recoverable amount to be equal to the carrying amount of goodwill and related net non-current assets of the segment.

Estimated production volumes are based on detailed data for each field and take into account development plans agreed by management as part of the long-term planning process. For 2016, the average production for the purposes of goodwill impairment testing over the following 15 years is 889mmboe per year and it is estimated that if production volume were to be reduced by approximately 4% for this period, this would cause the recoverable amount to be equal to the carrying amount of goodwill and related net non-current assets of the segment.

For 2016 it is estimated that if the post-tax discount rate was approximately 9% for the entire portfolio, an increase of 3% for all countries not considered 'higher risk' and 1% for countries considered 'higher risk', this would cause the recoverable amount to be equal to the carrying amount of goodwill and related net non-current assets of the segment.

Downstream

| | \$ million | | | | | |
|----------|------------|-------|-------|------------|-------|-------|
| | 2017 | | 2016 | | | |
| | Lubricants | Other | Total | Lubricants | Other | Total |
| Goodwill | 2,849 | 909 | 3,758 | 2,571 | 830 | 3,401 |

Cash flows for each cash-generating unit are derived from the business segment plans, which cover a period of up to five years. To determine the value in use for each of the cash-generating units, cash flows for a period of 10 years are discounted and aggregated with a terminal value.

Lubricants

As permitted by IAS 36, the detailed calculations of Lubricants' recoverable amount performed in the most recent detailed calculation in 2013 were used for the 2017 impairment test as the criteria in that standard were considered satisfied: the headroom was substantial in 2013; there have been no significant changes in the assets and liabilities; and the likelihood that the recoverable amount would be less than the carrying amount is remote.

The key assumptions to which the calculation of value in use for the Lubricants unit is most sensitive are operating unit margins, sales volumes, and discount rate. The values assigned to these key assumptions reflect BP's experience. No reasonably possible change in any of these key assumptions would cause the unit's carrying amount to exceed its recoverable amount. Cash flows beyond the two-year plan period were extrapolated using a nominal 3% growth rate.

13. Intangible assets

| | \$ million | | | | | |
|----------------------|--|-------------------|---------|--|-------------------|---------|
| | 2017 | | 2016 | | | |
| | Exploration and appraisal expenditure ^a | Other intangibles | Total | Exploration and appraisal expenditure ^a | Other intangibles | Total |
| Cost | | | | | | |
| At 1 January | 18,524 | 4,035 | 22,559 | 19,856 | 4,055 | 23,911 |
| Exchange adjustments | — | 197 | 197 | — | (149) | (149) |
| Acquisitions | — | 41 | 41 | — | 15 | 15 |
| Additions | 2,128 | 310 | 2,438 | 2,896 | 251 | 3,147 |
| Transfers | (451) | — | (451) | (1,629) | — | (1,629) |
| Deletions | (2,315) | (95) | (2,410) | (2,599) | (137) | (2,736) |

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| | | | | | | |
|--------------------------------|---------|-------|--------|--------|-------|--------|
| At 31 December | 17,886 | 4,488 | 22,374 | 18,524 | 4,035 | 22,559 |
| Amortization | | | | | | |
| At 1 January | 1,564 | 2,812 | 4,376 | 2,570 | 2,681 | 5,251 |
| Exchange adjustments | — | 107 | 107 | — | (96) | (96) |
| Charge for the year | 1,603 | 335 | 1,938 | 1,274 | 351 | 1,625 |
| Impairment losses | — | — | — | 62 | — | 62 |
| Transfers | — | — | — | (5) |)— | (5) |
| Deletions | (2,307) |)95 |)2,402 |)2,337 |)124 |)2,461 |
| At 31 December | 860 | 3,159 | 4,019 | 1,564 | 2,812 | 4,376 |
| Net book amount at 31 December | 17,026 | 1,329 | 18,355 | 16,960 | 1,223 | 18,183 |
| Net book amount at 1 January | 16,960 | 1,223 | 18,183 | 17,286 | 1,374 | 18,660 |

^a For further information see Intangible assets within Note 1 and Note 6.

14. Investments in joint ventures

The following table provides aggregated summarized financial information relating to the group's share of joint ventures.

| | \$ million | | |
|---|------------|--------|-------------------|
| | 2017 | 2016 | 2015 ^a |
| Sales and other operating revenues | 11,380 | 10,081 | 9,588 |
| Profit before interest and taxation | 1,394 | 1,612 | 785 |
| Finance costs | 100 | 156 | 188 |
| Profit before taxation | 1,294 | 1,456 | 597 |
| Taxation | 117 | 490 | 625 |
| Profit (loss) for the year | 1,177 | 966 | (28) |
| Other comprehensive income | 8 | 5 | (1) |
| Total comprehensive income | 1,185 | 971 | (29) |
| Non-current assets | 10,139 | 10,874 | |
| Current assets | 2,419 | 3,257 | |
| Total assets | 12,558 | 14,131 | |
| Current liabilities | 1,687 | 2,087 | |
| Non-current liabilities | 2,927 | 3,520 | |
| Total liabilities | 4,614 | 5,607 | |
| Net assets | 7,944 | 8,524 | |
| Group investment in joint ventures | | | |
| Group share of net assets (as above) | 7,944 | 8,524 | |
| Loans made by group companies to joint ventures | 50 | 85 | |
| | 7,994 | 8,609 | |

^a The loss for 2015 shown in the table above included \$711 million relating to BP's share of impairment losses recognized by joint ventures, a significant element of which related to the Angola LNG plant.

In December 2017, BP completed a cash-free transaction with Bridas Corporation (Bridas) in which its interests in the oil and gas producer Pan American Energy (PAE) and Bridas' interest in the refiner and marketer Axion Energy (Axion) were combined to form a new integrated energy company. PAE was previously owned 60% by BP and 40% by Bridas. The new company, Pan American Energy Group, is owned equally by BP and Bridas.

Transactions between the group and its joint ventures are summarized below.

| | \$ million | | | | | |
|--|------------|--|-------|--|-------|--|
| | 2017 | | 2016 | | 2015 | |
| Product | Sales | Amount receivable at 31 December | Sales | Amount receivable at 31 December | Sales | Amount receivable at 31 December |
| LNG, crude oil and oil products, natural gas | 2,929 | 352 | 2,760 | 291 | 2,841 | 245 |

| | \$ million | | | | | |
|---|------------|---------------------------|-----------|---------------------------|-----------|---------------------------|
| | 2017 | | 2016 | | 2015 | |
| Product | Purchases | payable at 31 December | Purchases | payable at 31 December | Purchases | payable at 31 December |
| LNG, crude oil and oil products, natural gas, refinery operating costs, plant processing fees | 1,257 | 176 | 943 | 120 | 861 | 104 |

The terms of the outstanding balances receivable from joint ventures are typically 30 to 45 days. The balances are unsecured and will be settled in cash. There are no significant provisions for doubtful debts relating to these balances

and no significant expense recognized in the income statement in respect of bad or doubtful debts. Dividends receivable are not included in the table above.

15. Investments in associates

The following table provides aggregated summarized financial information for the group's associates as it relates to the amounts recognized in the group income statement and on the group balance sheet.

| | \$ million | | | | |
|------------------|---|------|-------|---------------------------|--------|
| | Income statement | | | Balance sheet | |
| | Earnings from associates - after interest and tax | | | Investments in associates | |
| | 2017 | 2016 | 2015 | 2017 | 2016 |
| Rosneft | 922 | 647 | 1,330 | 10,059 | 8,243 |
| Other associates | 408 | 347 | 509 | 6,932 | 5,849 |
| | 1,330 | 994 | 1,839 | 16,991 | 14,092 |

The associate that is material to the group at both 31 December 2017 and 2016 is Rosneft.

BP owns 19.75% of the voting shares of Rosneft which are listed on the MICEX stock exchange in Moscow and its global depository receipts are listed on the London Stock Exchange. The Russian federal government, through its investment company JSC Rosneftgaz, owned 50.0% plus one share of the voting shares of Rosneft at 31 December 2017.

BP classifies its investment in Rosneft as an associate because, in management's judgement, BP has significant influence over Rosneft; see Interests in other entities within Note 1 for further information. The group's investment in Rosneft is a foreign operation whose functional currency is the Russian rouble. The increase in the group's equity-accounted investment balance for Rosneft at 31 December 2017 compared

15. Investments in associates – continued

with 31 December 2016 principally relates to earnings from Rosneft and foreign exchange effects which have been recognized in other comprehensive income.

The value of BP's 19.75% shareholding in Rosneft based on the quoted market share price of \$4.99 per share (2016 \$6.50 per share) was \$10,444 million at 31 December 2017 (2016 \$13,604 million).

The following table provides summarized financial information relating to Rosneft. This information is presented on a 100% basis and reflects adjustments made by BP to Rosneft's own results in applying the equity method of accounting. BP adjusts Rosneft's results for the accounting required under IFRS relating to BP's purchase of its interest in Rosneft and the amortization of the deferred gain relating to the disposal of BP's interest in TNK-BP. These adjustments have increased the reported profit for 2017, as shown in the table below, compared with the equivalent amount in Russian roubles that we expect Rosneft to report in its own financial statements under IFRS.

| | \$ million | | |
|-------------------------------------|--------------|---------|---------|
| | Gross amount | | |
| | 2017 | 2016 | 2015 |
| Sales and other operating revenues | 103,028 | 74,380 | 84,071 |
| Profit before interest and taxation | 9,949 | 7,094 | 12,253 |
| Finance costs | 2,228 | 1,747 | 3,696 |
| Profit before taxation | 7,721 | 5,347 | 8,557 |
| Taxation | 1,742 | 1,797 | 1,792 |
| Non-controlling interests | 1,311 | 273 | 30 |
| Profit for the year | 4,668 | 3,277 | 6,735 |
| Other comprehensive income | 2,810 | 4,203 | (4,111) |
| Total comprehensive income | 7,478 | 7,480 | 2,624 |
| Non-current assets | 158,719 | 129,403 | |
| Current assets | 39,737 | 37,914 | |
| Total assets | 198,456 | 167,317 | |
| Current liabilities | 66,506 | 46,284 | |
| Non-current liabilities | 70,704 | 71,980 | |
| Total liabilities | 137,210 | 118,264 | |
| Net assets | 61,246 | 49,053 | |
| Less: non-controlling interests | 10,314 | 7,316 | |
| | 50,932 | 41,737 | |

The group received dividends, net of withholding tax, of \$314 million from Rosneft in 2017 (2016 \$332 million and 2015 \$271 million).

Summarized financial information for the group's share of associates is shown below.

| | \$ million | | | | | | | | |
|-------------------------------------|----------------------|-------|--------|----------------------|-------|--------|----------------------|-------|--------|
| | 2017 | | | 2016 | | | BP share | | |
| | Rosneft ^a | Other | Total | Rosneft ^a | Other | Total | Rosneft ^a | Other | Total |
| Sales and other operating revenues | 20,348 | 7,600 | 27,948 | 14,690 | 5,377 | 20,067 | 16,604 | 6,000 | 22,604 |
| Profit before interest and taxation | 1,965 | 626 | 2,591 | 1,401 | 525 | 1,926 | 2,420 | 661 | 3,081 |
| Finance costs | 440 | 54 | 494 | 345 | 22 | 367 | 730 | 6 | 736 |
| Profit before taxation | 1,525 | 572 | 2,097 | 1,056 | 503 | 1,559 | 1,690 | 655 | 2,345 |
| Taxation | 344 | 164 | 508 | 355 | 156 | 511 | 354 | 146 | 500 |
| Non-controlling interests | 259 | — | 259 | 54 | — | 54 | 6 | — | 6 |
| Profit for the year | 922 | 408 | 1,330 | 647 | 347 | 994 | 1,330 | 509 | 1,839 |
| Other comprehensive income | 555 | 1 | 556 | 830 | (2) | 828 | (812) | (2) | (814) |
| Total comprehensive income | 1,477 | 409 | 1,886 | 1,477 | 345 | 1,822 | 518 | 507 | 1,025 |
| Non-current assets | 31,347 | 9,261 | 40,608 | 25,557 | 7,848 | 33,405 | | | |
| Current assets | 7,848 | 2,645 | 10,493 | 7,488 | 2,002 | 9,490 | | | |

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| | | | | | | |
|---|--------|--------|--------|--------|-------|--------|
| Total assets | 39,195 | 11,906 | 51,101 | 33,045 | 9,850 | 42,895 |
| Current liabilities | 13,135 | 2,501 | 15,636 | 9,141 | 1,827 | 10,968 |
| Non-current liabilities | 13,964 | 3,308 | 17,272 | 14,216 | 2,934 | 17,150 |
| Total liabilities | 27,099 | 5,809 | 32,908 | 23,357 | 4,761 | 28,118 |
| Net assets | 12,096 | 6,097 | 18,193 | 9,688 | 5,089 | 14,777 |
| Less: non-controlling interests | 2,037 | — | 2,037 | 1,445 | — | 1,445 |
| | 10,059 | 6,097 | 16,156 | 8,243 | 5,089 | 13,332 |
| Group investment in associates | | | | | | |
| Group share of net assets (as above) | 10,059 | 6,097 | 16,156 | 8,243 | 5,089 | 13,332 |
| Loans made by group companies to associates | — | 835 | 835 | — | 760 | 760 |
| | 10,059 | 6,932 | 16,991 | 8,243 | 5,849 | 14,092 |

From 1 October 2014, Rosneft adopted hedge accounting in relation to a portion of highly probable future export revenue denominated in US dollars over a five-year period. Foreign exchange gains and losses arising on the ^a retranslation of borrowings denominated in currencies other than the Russian rouble and designated as hedging instruments are recognized initially in other comprehensive income, and are reclassified to the income statement as the hedged revenue is recognized.

15. Investments in associates – continued

Transactions between the group and its associates are summarized below.

| | | 2017 | | 2016 | | \$ million |
|--|-------|---------------|-------|---------------|-------|---------------|
| Sales to associates | | Amount | | Amount | | 2015 |
| Product | Sales | receivable at | Sales | receivable at | Sales | Amount |
| | | 31 December | | 31 December | | receivable at |
| | | | | | | 31 December |
| LNG, crude oil and oil products, natural gas | 2,261 | 216 | 4,210 | 765 | 5,302 | 1,058 |

| | | 2017 | | 2016 | | \$ million |
|--|-----------|-------------|-----------|-------------|-----------|-------------|
| Purchases from associates | | Amount | | Amount | | 2015 |
| Product | Purchases | payable at | Purchases | payable at | Purchases | Amount |
| | | 31 December | | 31 December | | payable at |
| | | | | | | 31 December |
| Crude oil and oil products, natural gas, transportation tariff | 11,613 | 1,681 | 8,873 | 2,000 | 11,619 | 2,026 |

In addition to the transactions shown in the table above, in 2016 the group completed the dissolution of its German refining joint operation with Rosneft. In 2015, the group acquired a 20% participatory interest in Taas-Yuryakh Neftegazodobycha, a Rosneft subsidiary.

The terms of the outstanding balances receivable from associates are typically 30 to 45 days. The balances are unsecured and will be settled in cash. There are no significant provisions for doubtful debts relating to these balances and no significant expense recognized in the income statement in respect of bad or doubtful debts. Dividends receivable are not included in the table above.

The majority of the sales to and purchases from associates relate to crude oil and oil products transactions with Rosneft.

BP has commitments amounting to \$13,932 million (2016 \$15,344 million), primarily in relation to contracts with its associates for the purchase of transportation capacity.

16. Other investments

| | \$ million | | | |
|---------------------------------|------------|-------------|---------|-------------|
| | 2017 | | 2016 | |
| | Current | Non-current | Current | Non-current |
| Equity investments ^a | 15 | 418 | 2 | 405 |
| Other | 110 | 827 | 42 | 628 |
| | 125 | 1,245 | 44 | 1,033 |

^a The majority of equity investments are unlisted.

Other non-current investments includes \$662 million relating to life insurance policies in the US (2016 \$628 million) which are financial assets measured at fair value through profit or loss. The fair value is determined using the higher of the amount that would be received if the policies were cashed in and discounted future cash flows that would be received on maturity of the policies. It is considered a level 3 valuation under the fair value hierarchy. Future cash flows are estimated based on inputs that include life expectancy, investment performance and the cost of insurance cover. The pre-tax discount rate is based on a third-party high-quality US insurance company corporate bond index.

17. Inventories

| | \$ million | |
|--|------------|-------|
| | 2017 | 2016 |
| Crude oil | 5,692 | 5,531 |
| Natural gas | 119 | 155 |
| Refined petroleum and petrochemical products | 10,694 | 9,198 |

| | | |
|--|---------|---------|
| | 16,505 | 14,884 |
| Supplies | 2,211 | 2,388 |
| | 18,716 | 17,272 |
| Trading inventories | 295 | 383 |
| | 19,011 | 17,655 |
| Cost of inventories expensed in the income statement | 179,716 | 132,219 |

The inventory valuation at 31 December 2017 is stated net of a provision of \$474 million (2016 \$501 million) to write down inventories (principally supplies) to their net realizable value. The net credit to the income statement in the year in respect of inventory net realizable value provisions was \$27 million (2016 \$769 million credit).

Trading inventories are valued using quoted benchmark prices adjusted as appropriate for location and quality differentials. They are predominantly categorized within level 2 of the fair value hierarchy.

18. Trade and other receivables

| | \$ million | | | |
|---|------------|-------------|---------|-------------|
| | 2017 | | 2016 | |
| | Current | Non-current | Current | Non-current |
| Financial assets | | | | |
| Trade receivables | 18,912 | 4 | 13,393 | — |
| Amounts receivable from joint ventures and associates | 566 | 2 | 1,056 | — |
| Other receivables | 4,206 | 671 | 5,352 | 815 |
| | 23,684 | 677 | 19,801 | 815 |
| Non-financial assets | | | | |
| Gulf of Mexico oil spill trust fund reimbursement asset | 252 | — | 194 | — |
| Other receivables | 913 | 757 | 680 | 659 |
| | 1,165 | 757 | 874 | 659 |
| | 24,849 | 1,434 | 20,675 | 1,474 |

Non-recourse arrangements to discount receivables, as part of discretionary funding in support of certain supply and trading activities and management of credit risk, included \$1.7 billion relating to receivables based on provisional prices (2016 \$1.3 billion). The group had continuing involvement in these receivables to the extent of movements in market prices after the date of discounting. The amounts which continued to be recognized on the balance sheet relating to the group's continuing involvement in these receivables totalled \$0.2 billion, unchanged from 2016. Trade and other receivables are predominantly non-interest bearing. See Note 27 for further information.

19. Valuation and qualifying accounts

| | \$ million | | | | | |
|--|---------------------|-------------------------|---------------------|-------------------------|---------------------|-------------------------|
| | 2017 | | 2016 | | 2015 | |
| | Accounts receivable | Fixed asset investments | Accounts receivable | Fixed asset investments | Accounts receivable | Fixed asset investments |
| At 1 January | 392 | 335 | 447 | 435 | 331 | 517 |
| Charged to costs and expenses | 68 | 47 | 120 | 55 | 243 | 195 |
| Charged to other accounts ^a | 13 | 3 | (7 |)(2 |)(23 |)(4 |
| Deductions | (138 |)(71 |)(168 |)(153 |)(104 |)(273 |
| At 31 December | 335 | 314 | 392 | 335 | 447 | 435 |

^a Principally exchange adjustments.

Valuation and qualifying accounts comprise impairment provisions for accounts receivable and fixed asset investments, and are deducted in the balance sheet from the assets to which they apply.

For information on significant judgements made in relation to the recoverability of trade receivables see Impairment of loans and receivables within Note 1.

20. Trade and other payables

| | \$ million | | | |
|--|------------|-------------|---------|-------------|
| | 2017 | | 2016 | |
| | Current | Non-current | Current | Non-current |
| Financial liabilities | | | | |
| Trade payables | 26,983 | — | 21,575 | — |
| Amounts payable to joint ventures and associates | 1,857 | — | 2,120 | — |
| Other payables ^a | 11,632 | 13,582 | 12,079 | 13,760 |
| | 40,472 | 13,582 | 35,774 | 13,760 |
| Non-financial liabilities | | | | |
| Other payables | 3,737 | 307 | 2,141 | 186 |
| | 44,209 | 13,889 | 37,915 | 13,946 |

^a The majority of non-current other payables relate to the Gulf of Mexico oil spill. See Note 2 for further information.

Trade and other payables, other than those relating to the Gulf of Mexico oil spill, are predominantly interest free. See Note 27 for further information.

21. Provisions

| | \$ million | | | | |
|--|-----------------|---------------|-----------------------|-------|-----------|
| | Decommissioning | Environmental | Litigation and claims | Other | Total |
| At 1 January 2017 | 16,442 | 1,584 | 3,162 | 3,236 | 24,424 |
| Exchange adjustments | 326 | 12 | 4 | 162 | 504 |
| Acquisitions | — | 2 | — | — | 2 |
| Increase (decrease) in existing provisions | (228) |)249 | 2,907 | 786 | 3,714 |
| Write-back of unused provisions | — | (94) |)(26 |)(369 |)(489) |
| Unwinding of discount | 121 | 8 | 8 | 13 | 150 |
| Change in discount rate | (106) |)— | (13 |)(14 |)(133) |
| Utilization | (21 |)(231 |)(1,916 |)(739 |)(2,907) |
| Reclassified to other payables | (239 |)— | (792 |)(73 |)(1,104) |
| Deletions | (195 |)(14 |)— | (8 |)(217) |
| At 31 December 2017 | 16,100 | 1,516 | 3,334 | 2,994 | 23,944 |
| Of which – current | 378 | 269 | 1,738 | 939 | 3,324 |
| – non-current | 15,722 | 1,247 | 1,596 | 2,055 | 20,620 |
| Of which – Gulf of Mexico oil spill ^a | — | — | 2,580 | — | 2,580 |

^a Further information on the financial impacts of the Gulf of Mexico oil spill is provided in Note 2.

The decommissioning provision comprises the future cost of decommissioning oil and natural gas wells, facilities and related pipelines. The environmental provision includes provisions for costs related to the control, abatement, clean-up or elimination of environmental pollution relating to soil, groundwater, surface water and sediment contamination.

The litigation and claims category includes provisions for matters related to, for example, commercial disputes, product liability, and allegations of exposures of third parties to toxic substances. Included within the other category at 31 December 2017 are provisions for deferred employee compensation of \$391 million (2016 \$422 million).

For information on significant estimates and judgements made in relation to provisions, including those for the Gulf of Mexico oil spill, see Provisions and contingencies within Note 1.

22. Pensions and other post-retirement benefits

Most group companies have pension plans, the forms and benefits of which vary with conditions and practices in the countries concerned. Pension benefits may be provided through defined contribution plans (money purchase schemes) or defined benefit plans (final salary and other types of schemes with committed pension benefit payments). For defined contribution plans, retirement benefits are determined by the value of funds arising from contributions paid in respect of each employee. For defined benefit plans, retirement benefits are based on such factors as an employee's pensionable salary and length of service. Defined benefit plans may be funded or unfunded. The assets of funded plans are generally held in separately administered trusts.

For information on significant estimates and judgements made in relation to accounting for these plans see Pensions and other post-retirement benefits within Note 1.

The primary pension arrangement in the UK is a funded final salary pension plan under which retired employees draw the majority of their benefit as an annuity. This pension plan is governed by a corporate trustee whose board is composed of four member-nominated directors, four company-nominated directors, an independent director and an independent chairman nominated by the company. The trustee board is required by law to act in the best interests of the plan participants and is responsible for setting certain policies, such as investment policies of the plan. The UK plan is closed to new joiners but remains open to ongoing accrual for current members. New joiners in the UK are eligible for membership of a defined contribution plan.

In the US, all employees now accrue benefits under a cash balance formula. Benefits previously accrued under final salary formulas are legally protected. Retiring US employees typically take their pension benefit in the form of a lump sum payment upon retirement. The plan is funded and its assets are overseen by a fiduciary Investment Committee composed of six BP employees appointed by the president of BP Corporation North America Inc. (the appointing officer). The Investment Committee is required by law to act in the best interests of the plan participants and is responsible for setting certain policies, such as the investment policies of the plan. US employees are also eligible to

participate in a defined contribution (401k) plan in which employee contributions are matched with company contributions. In the US, group companies also provide post-retirement healthcare to retired employees and their dependants (and, in certain cases, life insurance coverage); the entitlement to these benefits is usually based on the employee remaining in service until a specified age and completion of a minimum period of service.

In the Eurozone, there are defined benefit pension plans in Germany, France, the Netherlands and other countries. In Germany and France, the majority of the pensions are unfunded, in line with market practice. In Germany, the group's largest Eurozone plan, employees receive a pension and also have a choice to supplement their core pension through salary sacrifice. For employees who joined since 2002 the core pension benefit is a career average plan with retirement benefits based on such factors as an employee's pensionable salary and length of service. The returns on the notional contributions made by both the company and employees are based on the interest rate which is set out in German tax law. Retired German employees take their pension benefit typically in the form of an annuity. The German plans are governed by legal agreements between BP and the works council or between BP and the trade union.

The level of contributions to funded defined benefit plans is the amount needed to provide adequate funds to meet pension obligations as they fall due. During 2017 the aggregate level of contributions was \$637 million (2016 \$651 million and 2015 \$1,066 million). The aggregate level of contributions in 2018 is expected to be approximately \$600 million, and includes contributions in all countries that we expect to be required to make contributions by law or under contractual agreements, as well as an allowance for discretionary funding.

For the primary UK plan there is a funding agreement between the group and the trustee. On an annual basis the latest funding position is reviewed and a schedule of contributions is agreed. The current agreement covers the next five years. The funding agreement can be terminated unilaterally by either party with two years' notice. Contractually committed funding therefore represents seven years of future contributions, which amounted to \$2,623 million at 31 December 2017, of which \$106 million relates to past service. This amount is included in the group's committed cash flows relating to pensions and other post-retirement benefit plans as set out in the table of contractual obligations on page 252.

22. Pensions and other post-retirement benefits – continued

The surplus relating to the primary UK pension plan is recognized on the balance sheet on the basis that the company is entitled to a refund of any remaining assets once all members have left the plan.

Pension contributions in the US are determined by legislation and are supplemented by discretionary contributions. All of the contributions made into the US pension plan in 2017 were discretionary and no statutory funding requirement is expected in the next 12 months.

There was no minimum funding requirement for the US plan, and no significant minimum funding requirements in other countries at 31 December 2017.

The obligation and cost of providing pensions and other post-retirement benefits is assessed annually using the projected unit credit method. The date of the most recent actuarial review was 31 December 2017. The UK plans are subject to a formal actuarial valuation every three years; valuations are required more frequently in many other countries. The most recent formal actuarial valuation of the UK pension plans was as at 31 December 2014, and a valuation as at 31 December 2017 is currently under way. A valuation of the US plan is carried out annually.

The material financial assumptions used to estimate the benefit obligations of the various plans are set out below. The assumptions are reviewed by management at the end of each year, and are used to evaluate the accrued benefit obligation at 31 December and pension expense for the following year.

| Financial assumptions used to determine benefit obligation | UK | | | US | | | % Eurozone | | |
|--|------------------------------------|------|------|------|------|------|------------|------|------|
| | 2017 | 2016 | 2015 | 2017 | 2016 | 2015 | 2017 | 2016 | 2015 |
| | Discount rate for plan liabilities | 2.5 | 2.7 | 3.9 | 3.5 | 3.9 | 4.0 | 1.9 | 1.7 |
| Rate of increase in salaries | 4.1 | 4.6 | 4.4 | 4.1 | 4.2 | 3.9 | 3.0 | 3.0 | 3.2 |
| Rate of increase for pensions in payment | 2.9 | 3.0 | 3.0 | — | — | — | 1.4 | 1.5 | 1.6 |
| Rate of increase in deferred pensions | 2.9 | 3.0 | 3.0 | — | — | — | 0.6 | 0.5 | 0.6 |
| Inflation for plan liabilities | 3.1 | 3.2 | 3.0 | 1.7 | 1.8 | 1.5 | 1.6 | 1.6 | 1.8 |

| Financial assumptions used to determine benefit expense | UK | | | US | | | % Eurozone | | |
|---|-------------------------------------|------|------|------|------|------|------------|------|------|
| | 2017 | 2016 | 2015 | 2017 | 2016 | 2015 | 2017 | 2016 | 2015 |
| | Discount rate for plan service cost | 2.7 | 4.0 | 3.9 | 4.1 | 4.2 | 3.8 | 2.1 | 2.7 |
| Discount rate for plan other finance expense | 2.7 | 3.9 | 3.6 | 3.9 | 4.0 | 3.7 | 1.7 | 2.4 | 2.0 |
| Inflation for plan service cost | 3.2 | 3.1 | 3.1 | 1.8 | 1.5 | 1.6 | 1.6 | 1.8 | 2.0 |

The discount rate assumptions are based on third-party AA corporate bond indices and for our largest plans in the UK, US and the Eurozone we use yields that reflect the maturity profile of the expected benefit payments. The inflation rate assumptions for our UK and US plans are based on the difference between the yields on index-linked and fixed-interest long-term government bonds. In other countries, including the Eurozone, we use this approach, or advice from the local actuary depending on the information available. The inflation assumptions are used to determine the rate of increase for pensions in payment and the rate of increase in deferred pensions where there is such an increase.

The assumptions for the rate of increase in salaries are based on the inflation assumption plus an allowance for expected long-term real salary growth. These include an allowance for promotion-related salary growth, of up to 0.8% depending on country.

In addition to the financial assumptions, we regularly review the demographic and mortality assumptions. The mortality assumptions reflect best practice in the countries in which we provide pensions, and have been chosen with regard to applicable published tables adjusted where appropriate to reflect the experience of the group and an extrapolation of past longevity improvements into the future. BP's most substantial pension liabilities are in the UK, the US and the Eurozone where our mortality assumptions are as follows:

| Mortality assumptions | UK | | | US | | | Years Eurozone | | |
|--|--|------|------|------|------|------|----------------|------|------|
| | 2017 | 2016 | 2015 | 2017 | 2016 | 2015 | 2017 | 2016 | 2015 |
| | Life expectancy at age 60 for a male currently aged 60 | 27.4 | 28.0 | 28.5 | 25.1 | 25.7 | 25.7 | 25.1 | 25.0 |
| Life expectancy at age 60 for a male currently aged 40 | 29.0 | 30.0 | 31.0 | 26.8 | 27.5 | 27.5 | 27.6 | 27.6 | 27.5 |

| | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|
| Life expectancy at age 60 for a female currently aged 60 | 28.8 | 29.5 | 29.5 | 28.4 | 29.3 | 29.2 | 29.0 | 28.9 | 28.8 |
| Life expectancy at age 60 for a female currently aged 40 | 30.5 | 31.9 | 31.9 | 30.0 | 31.0 | 30.9 | 31.4 | 31.3 | 31.2 |

Pension plan assets are generally held in trusts, the primary objective of which is to accumulate assets sufficient to meet the obligations of the plans. The assets of the trusts are invested in a manner consistent with fiduciary obligations and principles that reflect current practices in portfolio management.

A significant proportion of the assets are held in equities, which are expected to generate a higher level of return over the long term, with an acceptable level of risk. In order to provide reasonable assurance that no single security or type of security has an unwarranted impact on the total portfolio, the investment portfolios are highly diversified.

The trustee's long-term investment objective for the primary UK plan as it matures is to invest in assets whose value changes in the same way as the plan liabilities, in order to reduce the level of funding risk. To move towards this objective, the UK plan uses a liability driven investment (LDI) approach for part of the portfolio, investing in government bonds to achieve this matching effect for the most significant plan liability assumptions of interest rate and inflation rate. This is partly funded by short-term sale and repurchase agreements, whereby the plan borrows money using existing bonds as security and which will be bought back at a specified price at an agreed future date. The funds raised are used to invest in further bonds to increase the proportion of assets which match the plan liabilities. The borrowings are shown separately in the analysis of pension plan assets in the table below.

22. Pensions and other post-retirement benefits – continued

For the primary UK pension plan there is an agreement with the trustee to increase the proportion of assets included in the LDI portfolio over time by reducing the proportion of plan assets held as equities and increasing the proportion held as bonds. There is a similar agreement in place for the primary US plan. During 2017, the UK and the US plans switched 15% and 5% of plan assets respectively from equities to bonds.

The current asset allocation policy for the major plans at 31 December 2017 was as follows:

| Asset category | UKUS | |
|---|------|----|
| | % | % |
| Total equity (including private equity) | 43 | 50 |
| Bonds/cash (including LDI) | 50 | 50 |
| Property/real estate | 7 | — |

The amounts invested under the LDI programme by the primary UK pension plan as at 31 December 2017 were \$2,588 million (2016 \$423 million) of government-issued nominal bonds and \$16,177 million (2016 \$9,384 million) of index-linked bonds.

In addition, the primary UK plan entered into interest rate swaps in the year to offset the long-term fixed interest rate exposure for \$1,333 million (2016 \$4,450 million) of the corporate bond portfolio. At 31 December 2017 the fair value liability of these swaps was \$49 million (2016 \$144 million fair value liability) and is included in other assets in the table below.

Some of the group's pension plans in other countries also use derivative financial instruments as part of their asset mix to manage the level of risk.

The group's main pension plans do not invest directly in either securities or property/real estate of the company or of any subsidiary.

The fair values of the various categories of assets held by the defined benefit plans at 31 December are presented in the table below, including the effects of derivative financial instruments. Movements in the fair value of plan assets during the year are shown in detail in the table on page 165.

| | \$ million | | | |
|--|-----------------|-----------------|----------|-------------|
| | UK ^a | US ^b | Eurozone | Other Total |
| Fair value of pension plan assets | | | | |
| At 31 December 2017 | | | | |
| Listed equities – developed markets | 9,548 | 2,158 | 537 | 12,619 |
| – emerging markets | 2,220 | 220 | 83 | 2,576 |
| Private equity ^c | 2,679 | 1,461 | — | 4,140 |
| Government issued nominal bonds | 2,663 | 1,777 | 941 | 5,926 |
| Government issued index-linked bonds | 16,177 | — | 2 | 16,179 |
| Corporate bonds | 4,682 | 2,024 | 546 | 7,524 |
| Property ^d | 2,211 | 6 | 71 | 2,318 |
| Cash | 390 | 80 | 21 | 589 |
| Other | 104 | 53 | 23 | 225 |
| Debt (repurchase agreements) used to fund liability driven investments | (5,583) | — | — | (5,583) |
| | 35,091 | 7,779 | 2,224 | 46,513 |
| At 31 December 2016 | | | | |
| Listed equities – developed markets | 11,494 | 2,283 | 436 | 14,576 |
| – emerging markets | 2,549 | 220 | 54 | 2,869 |
| Private equity ^c | 2,754 | 1,442 | 1 | 4,197 |
| Government issued nominal bonds | 489 | 1,438 | 821 | 3,196 |
| Government issued index-linked bonds | 9,384 | — | 4 | 9,388 |
| Corporate bonds | 4,042 | 1,732 | 427 | 6,460 |
| Property ^d | 1,970 | 6 | 45 | 2,049 |
| Cash | 547 | 105 | 17 | 752 |
| Other | (68) | 90 | 74 | 179 |

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| | | | | |
|--|----------|-------|-------|----------|
| Debt (repurchase agreements) used to fund liability driven investments | (2,981) | — | — | (2,981) |
| | 30,180 | 7,316 | 1,879 | 1,310 |
| At 31 December 2015 | | | | |
| Listed equities – developed markets | 13,474 | 2,329 | 423 | 371 |
| – emerging markets | 2,305 | 226 | 49 | 50 |
| Private equity ^c | 2,933 | 1,522 | 1 | 4 |
| Government issued nominal bonds | 393 | 1,527 | 685 | 492 |
| Government issued index-linked bonds | 6,425 | — | 5 | — |
| Corporate bonds | 4,357 | 1,717 | 551 | 367 |
| Property ^d | 2,453 | 6 | 48 | 58 |
| Cash | 564 | 116 | 10 | 139 |
| Other | 110 | 67 | 102 | 50 |
| Debt (repurchase agreements) used to fund liability driven investments | (1,791) | — | — | (1,791) |
| | 31,223 | 7,510 | 1,874 | 1,531 |

^a Bonds held by the UK pension plans are denominated in sterling. Property held by the UK pension plans is in the United Kingdom.

^b Bonds held by the US pension plans are denominated in US dollars.

^c Private equity is valued at fair value based on the most recent third-party net asset valuation.

^d Properties are valued based on an analysis of recent market transactions supported by market knowledge derived from third-party valuers.

22. Pensions and other post-retirement benefits – continued

| | UK | US | Eurozone | Other | \$ million 2017 Total |
|--|---------|---------|----------|-------|--------------------------------|
| Analysis of the amount charged to profit (loss) before interest and taxation | | | | | |
| Current service cost ^a | 357 | 292 | 85 | 46 | 780 |
| Past service cost ^b | 12 | — | 5 | (1) | 16 |
| Settlement ^b | — | — | 13 | — | 13 |
| Operating charge relating to defined benefit plans | 369 | 292 | 103 | 45 | 809 |
| Payments to defined contribution plans | 31 | 191 | 7 | 38 | 267 |
| Total operating charge | 400 | 483 | 110 | 83 | 1,076 |
| Interest income on plan assets ^a | (845) | (266) | (37) | (48) | (1,196) |
| Interest on plan liabilities | 831 | 393 | 121 | 71 | 1,416 |
| Other finance (income) expense | (14) | 127 | 84 | 23 | 220 |
| Analysis of the amount recognized in other comprehensive income | | | | | |
| Actual asset return less interest income on plan assets | 2,396 | 826 | 30 | 43 | 3,295 |
| Change in financial assumptions underlying the present value of the plan liabilities | (236) | (514) | 336 | (47) | (461) |
| Change in demographic assumptions underlying the present value of the plan liabilities | 734 | 72 | — | (23) | 783 |
| Experience gains and losses arising on the plan liabilities | 91 | (40) | (36) | 14 | 29 |
| Remeasurements recognized in other comprehensive income | 2,985 | 344 | 330 | (13) | 3,646 |
| Movements in benefit obligation during the year | | | | | |
| Benefit obligation at 1 January | 29,908 | 10,533 | 6,820 | 1,715 | 48,976 |
| Exchange adjustments | 2,886 | — | 915 | 89 | 3,890 |
| Operating charge relating to defined benefit plans | 369 | 292 | 103 | 45 | 809 |
| Interest cost | 831 | 393 | 121 | 71 | 1,416 |
| Contributions by plan participants ^c | 16 | — | 2 | 6 | 24 |
| Benefit payments (funded plans) ^d | (1,903) | (641) | (75) | (89) | (2,708) |
| Benefit payments (unfunded plans) ^d | (5) | (239) | (302) | (20) | (566) |
| Acquisitions | — | 1 | — | — | 1 |
| Disposals | — | (1) | (9) | — | (10) |
| Remeasurements | (589) | 482 | (300) | 56 | (351) |
| Benefit obligation at 31 December ^{a e} | 31,513 | 10,820 | 7,275 | 1,873 | 51,481 |
| Movements in fair value of plan assets during the year | | | | | |
| Fair value of plan assets at 1 January | 30,180 | 7,316 | 1,879 | 1,310 | 40,685 |
| Exchange adjustments | 3,048 | — | 264 | 72 | 3,384 |
| Interest income on plan assets ^{a f} | 845 | 266 | 37 | 48 | 1,196 |
| Contributions by plan participants ^c | 16 | — | 2 | 6 | 24 |
| Contributions by employers (funded plans) | 509 | 12 | 87 | 29 | 637 |
| Benefit payments (funded plans) ^d | (1,903) | (641) | (75) | (89) | (2,708) |
| Remeasurements ^f | 2,396 | 826 | 30 | 43 | 3,295 |
| Fair value of plan assets at 31 December ^g | 35,091 | 7,779 | 2,224 | 1,419 | 46,513 |
| Surplus (deficit) at 31 December | 3,578 | (3,041) | (5,051) | (454) | (4,968) |
| Represented by | | | | | |
| Asset recognized | 3,838 | 260 | 43 | 28 | 4,169 |
| Liability recognized | (260) | (3,301) | (5,094) | (482) | (9,137) |
| | 3,578 | (3,041) | (5,051) | (454) | (4,968) |

The surplus (deficit) may be analysed between funded and unfunded plans as follows

| | | | | | |
|----------|-------|---------|---------|-------|-----------|
| Funded | 3,838 | 238 | (106 |)(101 |)3,869 |
| Unfunded | (260 |)(3,279 |)(4,945 |)(353 |)(8,837) |
| | 3,578 | (3,041 |)(5,051 |)(454 |)(4,968) |

The defined benefit obligation may be analysed between funded and unfunded plans as follows

| | | | | | |
|----------|----------|----------|---------|----------|-----------|
| Funded | (31,253) | (7,541 |)(2,330 |)(1,520) | (42,644) |
| Unfunded | (260 |)(3,279 |)(4,945 |)(353 |)(8,837) |
| | (31,513) | (10,820) | (7,275 |)(1,873) | (51,481) |

The costs of managing plan investments are offset against the investment return, the costs of administering pension plan benefits are generally included in current service cost and the costs of administering other post-retirement benefit plans are included in the benefit obligation.

Past service costs and settlements have arisen from restructuring programmes and represent charges for special termination benefits representing the increased liability arising as a result of early retirements mostly in the UK and Eurozone.

Most of the contributions made by plan participants into UK pension plans were made under salary sacrifice.

The benefit payments amount shown above comprises \$3,235 million benefits and \$2 million settlements, plus \$37 million of plan expenses incurred in the administration of the benefit.

The benefit obligation for the US is made up of \$8,085 million for pension liabilities and \$2,735 million for other post-retirement benefit liabilities (which are unfunded and are primarily retiree medical liabilities). The benefit obligation for the Eurozone includes \$4,586 million for pension liabilities in Germany which is largely unfunded.

The actual return on plan assets is made up of the sum of the interest income on plan assets and the remeasurement of plan assets as disclosed above.

The fair value of plan assets includes borrowings related to the LDI programme as described on page 164.

22. Pensions and other post-retirement benefits – continued

| | UK | US | Eurozone | Other | \$ million 2016 Total |
|--|---------|---------|----------|-------|--------------------------------|
| Analysis of the amount charged to profit (loss) before interest and taxation | | | | | |
| Current service cost ^a | 333 | 310 | 76 | 71 | 790 |
| Past service cost ^b | 17 | (24) |)7 | 1 | 1 |
| Settlement | — | — | 9 | (1) |)8 |
| Operating charge relating to defined benefit plans | 350 | 286 | 92 | 71 | 799 |
| Payments to defined contribution plans | 30 | 194 | 7 | 33 | 264 |
| Total operating charge | 380 | 480 | 99 | 104 | 1,063 |
| Interest income on plan assets ^a | (1,086) |)287 |)47 |)51 |)1,471 |
| Interest on plan liabilities | 1,005 | 417 | 159 | 80 | 1,661 |
| Other finance (income) expense | (81) |)130 | 112 | 29 | 190 |
| Analysis of the amount recognized in other comprehensive income | | | | | |
| Actual asset return less interest income on plan assets | 4,422 | 330 | 53 | 8 | 4,813 |
| Change in financial assumptions underlying the present value of the plan liabilities | (6,932) |)239 |)622 |)4 | (7,789) |
| Change in demographic assumptions underlying the present value of the plan liabilities | 430 | 9 | 12 | (5) |)446 |
| Experience gains and losses arising on the plan liabilities | 55 | (62) |)26 | 15 | 34 |
| Remeasurements recognized in other comprehensive income | (2,025) |)38 | (531) |)22 | (2,496) |
| Movements in benefit obligation during the year | | | | | |
| Benefit obligation at 1 January | 28,974 | 10,643 | 6,640 | 2,089 | 48,346 |
| Exchange adjustments | (5,688) |)— | (282) |)23 | (5,947) |
| Operating charge relating to defined benefit plans | 350 | 286 | 92 | 71 | 799 |
| Interest cost | 1,005 | 417 | 159 | 80 | 1,661 |
| Contributions by plan participants ^c | 18 | — | 2 | 6 | 26 |
| Benefit payments (funded plans) ^d | (1,192) |)821 |)78 |)117 |)2,208 |
| Benefit payments (unfunded plans) ^d | (6) |)284 |)301 |)24 |)615 |
| Acquisitions | — | — | 4 | — | 4 |
| Disposals | — | — | — | (399) |)399 |
| Remeasurements | 6,447 | 292 | 584 | (14) |)7,309 |
| Benefit obligation at 31 December ^{a e} | 29,908 | 10,533 | 6,820 | 1,715 | 48,976 |
| Movements in fair value of plan assets during the year | | | | | |
| Fair value of plan assets at 1 January | 31,223 | 7,510 | 1,874 | 1,531 | 42,138 |
| Exchange adjustments | (5,916) |)— | (76) |)15 | (5,977) |
| Interest income on plan assets ^{a f} | 1,086 | 287 | 47 | 51 | 1,471 |
| Contributions by plan participants ^c | 18 | — | 2 | 6 | 26 |
| Contributions by employers (funded plans) | 539 | 10 | 57 | 45 | 651 |
| Benefit payments (funded plans) ^d | (1,192) |)821 |)78 |)117 |)2,208 |
| Disposals | — | — | — | (229) |)229 |
| Remeasurements ^f | 4,422 | 330 | 53 | 8 | 4,813 |
| Fair value of plan assets at 31 December ^g | 30,180 | 7,316 | 1,879 | 1,310 | 40,685 |
| Surplus (deficit) at 31 December | 272 | (3,217) |)4,941 |)405 |)8,291 |
| Represented by | | | | | |
| Asset recognized | 530 | — | 22 | 32 | 584 |
| Liability recognized | (258) |)3,217 |)4,963 |)437 |)8,875 |

| | | | | | |
|--|--------|----------|----------|--------|----------|
| | 272 | (3,217) | (4,941) | (405) | (8,291) |
| The surplus (deficit) may be analysed between funded and unfunded plans as follows | | | | | |
| Funded | 519 | (36) | (316) | (83) | 84 |
| Unfunded | (247) | (3,181) | (4,625) | (322) | (8,375) |
| | 272 | (3,217) | (4,941) | (405) | (8,291) |

The defined benefit obligation may be analysed between funded and unfunded plans as follows

| | | | | | |
|----------|----------|----------|----------|---------|-----------|
| Funded | (29,661) | (7,352) | (2,195) | (1,393) | (40,601) |
| Unfunded | (247) | (3,181) | (4,625) | (322) | (8,375) |
| | (29,908) | (10,533) | (6,820) | (1,715) | (48,976) |

The costs of managing plan investments are offset against the investment return, the costs of administering pension plan benefits are generally included in current service cost and the costs of administering other post-retirement benefit plans are included in the benefit obligation.

Past service costs have arisen from restructuring programmes and represent a combination of credits as a result of the curtailment in the pension arrangements of a number of employees mostly in the US and charges for special termination benefits representing the increased liability arising as a result of early retirements mostly in the UK and Eurozone. The UK also includes \$12 million of cost resulting from benefit harmonization within the primary plan.

Most of the contributions made by plan participants into UK pension plans were made under salary sacrifice.

The benefit payments amount shown above comprises \$2,754 million benefits and \$14 million settlements, plus \$55 million of plan expenses incurred in the administration of the benefit.

The benefit obligation for the US is made up of \$7,902 million for pension liabilities and \$2,631 million for other post-retirement benefit liabilities (which are unfunded and are primarily retiree medical liabilities). The benefit obligation for the Eurozone includes \$4,289 million for pension liabilities in Germany which is largely unfunded.

The actual return on plan assets is made up of the sum of the interest income on plan assets and the remeasurement of plan assets as disclosed above.

The fair value of plan assets includes borrowings related to the LDI programme as described on page 164.

22. Pensions and other post-retirement benefits – continued

| | \$ million | | | | |
|--|------------|-------|----------|-------|---------|
| | 2015 | | | | |
| | UK | US | Eurozone | Other | Total |
| Analysis of the amount charged to profit (loss) before interest and taxation | | | | | |
| Current service cost ^a | 485 | 371 | 96 | 96 | 1,048 |
| Past service cost ^b | 12 | (27) | 47 | (7) | 25 |
| Settlement | — | — | (1) | (3) | (4) |
| Operating charge relating to defined benefit plans | 497 | 344 | 142 | 86 | 1,069 |
| Payments to defined contribution plans | 31 | 205 | 8 | 41 | 285 |
| Total operating charge | 528 | 549 | 150 | 127 | 1,354 |
| Interest income on plan assets ^a | (1,124) | (289) | (37) | (55) | (1,505) |
| Interest on plan liabilities | 1,146 | 423 | 151 | 91 | 1,811 |
| Other finance expense | 22 | 134 | 114 | 36 | 306 |
| Analysis of the amount recognized in other comprehensive income | | | | | |
| Actual asset return less interest income on plan assets | 315 | (139) | 25 | 33 | 234 |
| Change in financial assumptions underlying the present value of the plan liabilities | 2,054 | 607 | 592 | 213 | 3,466 |
| Change in demographic assumptions underlying the present value of the plan liabilities | — | 60 | 15 | — | 75 |
| Experience gains and losses arising on the plan liabilities | 336 | (48) | 47 | 29 | 364 |
| Remeasurements recognized in other comprehensive income | 2,705 | 480 | 679 | 275 | 4,139 |

^a The costs of managing plan investments are offset against the investment return, the costs of administering pension plan benefits are generally included in current service cost and the costs of administering other post-retirement benefit plans are included in the benefit obligation.

^b Past service costs have arisen from restructuring programmes and represent a combination of credits as a result of the curtailment in the pension arrangements of a number of employees mostly in the US and Trinidad and charges for special termination benefits representing the increased liability arising as a result of early retirements mostly in the UK and Eurozone.

Sensitivity analysis

The discount rate, inflation, salary growth and the mortality assumptions all have a significant effect on the amounts reported. A one-percentage point change, in isolation, in certain assumptions as at 31 December 2017 for the group's plans would have had the effects shown in the table below. The effects shown for the expense in 2018 comprise the total of current service cost and net finance income or expense.

| | \$ million | |
|--|----------------------|----------|
| | One percentage point | |
| | Increase | Decrease |
| Discount rate ^a | | |
| Effect on pension and other post-retirement benefit expense in 2018 | (366) | 298 |
| Effect on pension and other post-retirement benefit obligation at 31 December 2017 | (7,532) | 9,751 |
| Inflation rate ^b | | |
| Effect on pension and other post-retirement benefit expense in 2018 | 241 | (200) |
| Effect on pension and other post-retirement benefit obligation at 31 December 2017 | 5,373 | (4,690) |
| Salary growth | | |
| Effect on pension and other post-retirement benefit expense in 2018 | 78 | (68) |
| Effect on pension and other post-retirement benefit obligation at 31 December 2017 | 837 | (747) |

^a The amounts presented reflect that the discount rate is used to determine the asset interest income as well as the interest cost on the obligation.

^b The amounts presented reflect the total impact of an inflation rate change on the assumptions for rate of increase in salaries, pensions in payment and deferred pensions.

One additional year of longevity in the mortality assumptions would increase the 2018 pension and other post-retirement benefit expense by \$56 million and the pension and other post-retirement benefit obligation at 31 December 2017 by \$1,694 million.

Estimated future benefit payments and the weighted average duration of defined benefit obligations

The expected benefit payments, which reflect expected future service, as appropriate, but exclude plan expenses, up until 2027 and the weighted average duration of the defined benefit obligations at 31 December 2017 are as follows:

| | \$ million | | | | |
|-----------------------------------|------------|-------|----------|-------|--------|
| Estimated future benefit payments | UK | US | Eurozone | Other | Total |
| 2018 | 1,101 | 847 | 369 | 109 | 2,426 |
| 2019 | 1,087 | 815 | 359 | 110 | 2,371 |
| 2020 | 1,108 | 798 | 346 | 109 | 2,361 |
| 2021 | 1,148 | 853 | 336 | 109 | 2,446 |
| 2022 | 1,176 | 784 | 332 | 112 | 2,404 |
| 2023-2027 | 6,319 | 3,701 | 1,559 | 563 | 12,142 |
| | | | | | Years |
| Weighted average duration | 19.8 | 9.5 | 14.3 | 13.1 | |

23. Cash and cash equivalents

| | \$ million | |
|---|------------|--------|
| | 2017 | 2016 |
| Cash | 4,592 | 5,592 |
| Term bank deposits | 17,324 | 15,947 |
| Cash equivalents (excluding term bank deposits) | 3,670 | 1,945 |
| | 25,586 | 23,484 |

Cash and cash equivalents comprise cash in hand; current balances with banks and similar institutions; term deposits of three months or less with banks and similar institutions; money market funds and commercial paper. The carrying amounts of cash and term bank deposits approximate their fair values. Substantially all of the other cash equivalents are categorized within level 1 of the fair value hierarchy.

Cash and cash equivalents at 31 December 2017 includes \$1,488 million (2016 \$2,059 million) that is restricted. The restricted cash balances include amounts required to cover initial margin on trading exchanges and certain cash balances which are subject to exchange controls.

The group holds \$3,638 million (2016 \$3,649 million) of cash and cash equivalents outside the UK and it is not expected that any significant tax will arise on repatriation.

24. Finance debt

| | \$ million | | | | | |
|--------------------------------------|------------|-------------|--------|---------|-------------|--------|
| | 2017 | | | 2016 | | |
| | Current | Non-current | Total | Current | Non-current | Total |
| Borrowings | 7,701 | 54,873 | 62,574 | 6,592 | 51,074 | 57,666 |
| Net obligations under finance leases | 38 | 618 | 656 | 42 | 592 | 634 |
| | 7,739 | 55,491 | 63,230 | 6,634 | 51,666 | 58,300 |

The main elements of current borrowings are the current portion of long-term borrowings that is due to be repaid in the next 12 months of \$6,849 million (2016 \$5,587 million) and issued commercial paper of \$744 million (2016 \$971 million). Finance debt does not include accrued interest, which is reported within other payables.

The following table shows the weighted average interest rates achieved through a combination of borrowings and derivative financial instruments entered into to manage interest rate and currency exposures.

| | Weighted average interest rate % | Fixed rate debt Weighted average time for which rate is fixed Years | Amount \$ million | Weighted average interest rate % | Floating rate debt Amount \$ million | Total Amount \$ million |
|------------------|----------------------------------|---|-------------------|----------------------------------|---|----------------------------|
| | | | | | | 2017 |
| US dollar | 4 | 4 | 18,090 | 3 | 44,212 | 62,302 |
| Other currencies | 6 | 16 | 895 | 3 | 33 | 928 |
| | | | 18,985 | | 44,245 | 63,230 |
| | | | | | | 2016 |
| US dollar | 3 | 4 | 8,693 | 2 | 47,749 | 56,442 |
| Other currencies | 7 | 16 | 809 | 1 | 1,049 | 1,858 |
| | | | 9,502 | | 48,798 | 58,300 |

Fair values

The estimated fair value of finance debt is shown in the table below together with the carrying amount as reflected in the balance sheet.

Long-term borrowings in the table below include the portion of debt that matures in the 12 months from 31 December 2017, whereas in the balance sheet the amount is reported within current finance debt.

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The carrying amount of the group's short-term borrowings, comprising mainly of commercial paper, approximates their fair value. The fair values of the majority of the group's long-term borrowings are determined using quoted prices in active markets, and so fall within level 1 of the fair value hierarchy. Where quoted prices are not available, quoted prices for similar instruments in active markets are used and such measurements are therefore categorized in level 2 of the fair value hierarchy. The fair value of the group's finance lease obligations is estimated using discounted cash flow analysis based on the group's current incremental borrowing rates for similar types and maturities of borrowing and are consequently categorized in level 2 of the fair value hierarchy.

| | \$ million | | | |
|--------------------------------------|------------|-----------------|------------|-----------------|
| | 2017 | | 2016 | |
| | Fair value | Carrying amount | Fair value | Carrying amount |
| Short-term borrowings | 852 | 852 | 1,006 | 1,006 |
| Long-term borrowings | 63,182 | 61,722 | 57,723 | 56,660 |
| Net obligations under finance leases | 1,131 | 656 | 1,097 | 634 |
| Total finance debt | 65,165 | 63,230 | 59,826 | 58,300 |

25. Capital disclosures and analysis of changes in net debt

The group defines capital as total equity. We maintain our financial framework to support the pursuit of value growth for shareholders, while ensuring a secure financial base.

The group monitors capital on the basis of the net debt ratio, that is, the ratio of net debt to net debt plus equity. Net debt is calculated as gross finance debt, as shown in the balance sheet, plus the fair value of associated derivative financial instruments that are used to hedge foreign exchange and interest rate risks relating to finance debt, for which hedge accounting is applied, less cash and cash equivalents. Net debt and net debt ratio are non-GAAP measures. BP believes these measures provide useful information to investors. Net debt enables investors to see the economic effect of gross debt, related hedges and cash and cash equivalents in total. The net debt ratio enables investors to see how significant net debt is relative to equity from shareholders. The derivatives are reported on the balance sheet within the headings 'Derivative financial instruments'. All components of equity are included in the denominator of the calculation.

We aim to manage the net debt ratio within a 20-30% band and maintain a significant liquidity buffer. At 31 December 2017, the net debt ratio was 27.4% (2016 26.8%).

| | \$ million | |
|---|------------|----------|
| At 31 December | 2017 | 2016 |
| Gross debt | 63,230 | 58,300 |
| Less: fair value asset (liability) of hedges related to finance debt ^a | (175) | (697) |
| | 63,405 | 58,997 |
| Less: cash and cash equivalents | 25,586 | 23,484 |
| Net debt | 37,819 | 35,513 |
| Equity | 100,404 | 96,843 |
| Net debt ratio | 27.4 | % 26.8 % |

Derivative financial instruments entered into for the purpose of managing interest rate and foreign currency exchange risk associated with net debt with a fair value liability position of \$634 million (2016 liability of \$1,962 million, 2015 liability of \$1,617 million) are not included in the calculation of net debt shown above as hedge accounting was not applied for these instruments. The movement in the year is attributable to a net cash outflow of \$242 million (2016 net cash outflow \$299 million) and fair value gains of \$1,086 million (2016 fair value losses of \$644 million).

An analysis of changes in net debt is provided below. Amendments have been made to the presentation of this analysis to eliminate movements related to non-hedge accounted derivatives.

| | | | | | | | | \$ million |
|---------------------------|--------------|-----------------------------|---------------------------|----------|--------------|-----------------------------|---------------------------|------------|
| | | | | 2017 | | | | 2016 |
| Movement in net debt | Finance debt | Hedge-accounted derivatives | Cash and cash equivalents | Net debt | Finance debt | Hedge-accounted derivatives | Cash and cash equivalents | Net debt |
| At 1 January | (58,300) | (697) |)23,484 | (35,513) | (53,168) | (379) |)26,389 | (27,158) |
| Exchange adjustments | (1,324) |)— | 544 | (780) |)380 | — | (820) |)440) |
| Net financing cash flow | (2,236) |)284 |)1,558 | (962) |)6,363 |)256 | (2,085) |)8,192) |
| Fair value gains (losses) | (1,314) |)1,282 | — | (32) |)805 | (896) |)— | (91) |
| Other movements | (56) |)476 |)— | (532) |)46 | 322 | — | 368 |
| At 31 December | (63,230) | (175) |)25,586 | (37,819) | (58,300) | (697) |)23,484 | (35,513) |

26. Operating leases

The cost recognized in relation to minimum lease payments for the year was \$4,423 million (2016 \$5,113 million and 2015 \$6,008 million).

The future minimum lease payments at 31 December 2017, before deducting related rental income from operating sub-leases of \$188 million (2016 \$186 million), are shown in the table below. This does not include future contingent rentals. Where the lease rentals are dependent on a variable factor, the future minimum lease payments are based on the factor as at inception of the lease.

| | \$ million | |
|-------------------------------|------------|--------|
| Future minimum lease payments | 2017 | 2016 |
| Payable within | | |
| 1 year | 2,969 | 3,315 |
| 2 to 5 years | 6,387 | 6,651 |
| Thereafter | 4,614 | 4,289 |
| | 13,970 | 14,255 |

In the case of an operating lease entered into by BP as the operator of a joint operation, the amounts included in the totals disclosed represent the net operating lease expense and net future minimum lease payments. These net amounts are after deducting amounts reimbursed, or to be reimbursed, by joint operators, whether the joint operators have co-signed the lease or not. Where BP is not the operator of a joint operation, BP's share of the lease expense and future minimum lease payments is included in the amounts shown, whether BP has co-signed the lease or not.

Typical durations of operating leases are up to ten years for leases of plant and machinery, up to fifteen years for leases of ships and commercial vehicles and up to forty years for leases of land and buildings.

The most significant items of plant and machinery hired under operating leases are drilling rigs used in the Upstream segment. At 31 December 2017, the future minimum lease payments relating to these amounted to \$2,088 million (2016 \$2,969 million).

The group has entered into a number of structured operating leases for ships and in some cases the lease rental payments vary with market interest rates. The variable portion of the lease payments above or below the amount based on the market interest rate prevailing at inception of the lease is treated as contingent rental expense. The group also routinely enters into bareboat charters, time-charters and voyage-charters for ships on standard industry terms. The future minimum lease payments relating to operating leases for international oil and gas ships managed by the BP Shipping function amounted to \$3,172 million (2016 \$3,582 million).

26. Operating leases – continued

Commercial vehicles hired under operating leases are primarily railcars. Retail service station sites and office accommodation are the main items in the land and buildings category.

The terms and conditions of these operating leases do not impose any significant financial restrictions on the group. Some of the leases of ships and buildings allow for renewals at BP's option, and some of the group's operating leases contain escalation clauses.

BP will adopt IFRS 16 'Leases' on 1 January 2019. See Note 1 for further details.

27. Financial instruments and financial risk factors

The accounting classification of each category of financial instruments, and their carrying amounts, are set out below.

| At 31 December 2017 | Note | Loans and receivables | Available- for-sale financial assets | Held-to- maturity investments | At fair value through profit or loss | Derivative hedging instruments | Financial liabilities measured at amortized cost | Total carrying amount \$ million |
|--|------|--------------------------|---|-------------------------------------|--|--------------------------------------|---|--|
| Financial assets | | | | | | | | |
| Other investments – equity shares | 16 | — | 433 | — | — | — | — | 433 |
| – other | 16 | — | 275 | — | 662 | — | — | 937 |
| Loans | | 836 | — | — | — | — | — | 836 |
| Trade and other receivables | 18 | 24,361 | — | — | — | — | — | 24,361 |
| Derivative financial instruments | 28 | — | — | — | 6,454 | 688 | — | 7,142 |
| Cash and cash equivalents | 23 | 21,916 | 2,270 | 1,400 | — | — | — | 25,586 |
| Financial liabilities | | | | | | | | |
| Trade and other payables | 20 | — | — | — | — | — | (54,054) | (54,054) |
| Derivative financial instruments | 28 | — | — | — | (5,705) | (864) | — | (6,569) |
| Accruals | | — | — | — | — | — | (5,465) | (5,465) |
| Finance debt | 24 | — | — | — | — | — | (63,230) | (63,230) |
| | | 47,113 | 2,978 | 1,400 | 1,411 | (176) | (122,749) | (70,023) |
| At 31 December 2016 | | | | | | | | |
| Financial assets | | | | | | | | |
| Other investments – equity shares | 16 | — | 407 | — | — | — | — | 407 |
| – other | 16 | — | 42 | — | 628 | — | — | 670 |
| Loans | | 791 | — | — | — | — | — | 791 |
| Trade and other receivables | 18 | 20,616 | — | — | — | — | — | 20,616 |
| Derivative financial instruments | 28 | — | — | — | 6,490 | 885 | — | 7,375 |
| | 23 | 21,539 | 1,749 | 196 | — | — | — | 23,484 |

| | | | | | | | | | |
|----------------------------------|----|--------|-------|-----|--------|---------|-----------|----------|---|
| Cash and cash equivalents | | | | | | | | | |
| Financial liabilities | | | | | | | | | |
| Trade and other payables | 20 | — | — | — | — | — | (49,534 |)(49,534 |) |
| Derivative financial instruments | 28 | — | — | — | (6,507 |)(1,997 |)— | (8,504 |) |
| Accruals | | — | — | — | — | — | (5,605 |)(5,605 |) |
| Finance debt | 24 | — | — | — | — | — | (58,300 |)(58,300 |) |
| | | 42,946 | 2,198 | 196 | 611 | (1,112 |)(113,439 |)(68,600 |) |

The fair value of finance debt is shown in Note 24. For all other financial instruments, the carrying amount is either the fair value, or approximates the fair value.

Financial risk factors

The group is exposed to a number of different financial risks arising from natural business exposures as well as its use of financial instruments including market risks relating to commodity prices, foreign currency exchange rates and interest rates; credit risk; and liquidity risk.

The group financial risk committee (GFRC) advises the group chief financial officer (CFO) who oversees the management of these risks. The GFRC is chaired by the CFO and consists of a group of senior managers including the group treasurer and the heads of the group finance, tax and the integrated supply and trading functions. The purpose of the committee is to advise on financial risks and the appropriate financial risk governance framework for the group. The committee provides assurance to the CFO and the group chief executive (GCE), and via the GCE to the board, that the group's financial risk-taking activity is governed by appropriate policies and procedures and that financial risks are identified, measured and managed in accordance with group policies and group risk appetite.

The group's trading activities in the oil, natural gas, LNG and power markets are managed within the integrated supply and trading function. Treasury holds foreign exchange and interest-rate products in the financial markets to hedge group exposures related to debt issuance; the compliance, control, and risk management processes for these activities are managed within the treasury function. All other foreign exchange and interest rate activities within financial markets are performed within the integrated supply and trading function and are also underpinned by the compliance, control and risk management infrastructure common to the activities of BP's integrated and supply function. All derivative activity is carried out by specialist teams that have the appropriate skills, experience and supervision. These teams are subject to close financial and management control.

The integrated supply and trading function maintains formal governance processes that provide oversight of market risk, credit risk and operational risk associated with trading activity. A policy and risk committee monitors and validates limits and risk exposures, reviews incidents and validates risk-related policies, methodologies and procedures. A commitments committee approves value-at-risk delegations, the trading of new products, instruments and strategies and material commitments.

In addition, the integrated supply and trading function undertakes derivative activity for risk management purposes under a control framework as described more fully below.

27. Financial instruments and financial risk factors – continued

(a) Market risk

Market risk is the risk or uncertainty arising from possible market price movements and their impact on the future performance of a business. The primary commodity price risks that the group is exposed to include oil, natural gas and power prices that could adversely affect the value of the group's financial assets, liabilities or expected future cash flows. The group enters into derivatives in a well-established entrepreneurial trading operation. In addition, the group has developed a control framework aimed at managing the volatility inherent in certain of its natural business exposures. In accordance with the control framework the group enters into various transactions using derivatives for risk management purposes.

The major components of market risk are commodity price risk, foreign currency exchange risk and interest rate risk, each of which is discussed below.

(i) Commodity price risk

The group's integrated supply and trading function uses conventional financial and commodity instruments and physical cargoes and pipeline positions available in the related commodity markets. Oil and natural gas swaps, options and futures are used to mitigate price risk. Power trading is undertaken using a combination of over-the-counter forward contracts and other derivative contracts, including options and futures. This activity is on both a standalone basis and in conjunction with gas derivatives in relation to gas-generated power margin. In addition, NGLs are traded around certain US inventory locations using over-the-counter forward contracts in conjunction with over-the-counter swaps, options and physical inventories.

The group measures market risk exposure arising from its trading positions in liquid periods using value-at-risk techniques. These techniques make a statistical assessment of the market risk arising from possible future changes in market prices over a one-day holding period. The value-at-risk measure is supplemented by stress testing. Trading activity occurring in liquid periods is subject to value-at-risk limits for each trading activity and for this trading activity in total. The board has delegated a limit of \$100 million value at risk in support of this trading activity. Alternative measures are used to monitor exposures which are outside liquid periods and which cannot be actively risk-managed.

(ii) Foreign currency exchange risk

Since BP has global operations, fluctuations in foreign currency exchange rates can have a significant effect on the group's reported results and future expenditure commitments. The effects of most exchange rate fluctuations are absorbed in business operating results through changing cost competitiveness, lags in market adjustment to movements in rates and translation differences accounted for on specific transactions. For this reason, the total effect of exchange rate fluctuations is not identifiable separately in the group's reported results. The main underlying economic currency of the group's cash flows is the US dollar. This is because BP's major product, oil, is priced internationally in US dollars. BP's foreign currency exchange management policy is to limit economic and material transactional exposures arising from currency movements against the US dollar. The group co-ordinates the handling of foreign currency exchange risks centrally, by netting off naturally-occurring opposite exposures wherever possible and then managing any material residual foreign currency exchange risks.

Most of the group's borrowings are in US dollars or are hedged with respect to the US dollar. At 31 December 2017, the total foreign currency borrowings not swapped into US dollars amounted to \$928 million (2016 \$809 million). The group manages the net residual foreign currency exposures by constantly reviewing the foreign currency economic value at risk and aims to manage such risk to keep the 12-month foreign currency value at risk below \$400 million. At no point over the past three years did the value at risk exceed the maximum risk limit. The most significant exposures relate to capital expenditure commitments and other UK, Eurozone and Australian operational requirements, for which hedging programmes are in place and hedge accounting is applied.

For highly probable forecast capital expenditures the group fixes the US dollar cost of non-US dollar supplies by using currency forwards. The exposures are sterling, euro, Australian dollar, Norwegian krone and Korean Won. At 31 December 2017 the most significant open contracts in place were for \$437 million sterling (2016 \$1,204 million sterling).

For UK, Eurozone and Australian operational requirements the group uses cylinders (purchased call and sold put options) to manage the estimated exposures. At 31 December 2017, there are no open positions hedging these

exposures (2016 cylinders consisted of receive sterling, pay US dollar cylinders \$1,885 million; receive euro, pay US dollar cylinders for \$585 million; receive Australian dollar, pay US dollar cylinders for \$274 million).

Where the group enters into foreign currency exchange contracts for entrepreneurial trading purposes the activity is controlled using trading value-at-risk techniques as explained in (i) commodity price risk above.

(iii) Interest rate risk

BP is also exposed to interest rate risk from the possibility that changes in interest rates will affect future cash flows or the fair values of its financial instruments, principally finance debt. Whilst the group issues debt in a variety of currencies based on market opportunities, it uses derivatives to swap the debt to a floating rate exposure, mainly to US dollar floating, but in certain defined circumstances maintains a US dollar fixed rate exposure for a proportion of debt. The proportion of floating rate debt net of interest rate swaps at 31 December 2017 was 70% of total finance debt outstanding (2016 84%). The weighted average interest rate on finance debt at 31 December 2017 was 3% (2016 2%) and the weighted average maturity of fixed rate debt was five years (2016 five years).

The group's earnings are sensitive to changes in interest rates on the floating rate element of the group's finance debt. If the interest rates applicable to floating rate instruments were to have increased by one percentage point on 1 January 2018, it is estimated that the group's finance costs for 2018 would increase by approximately \$442 million (2016 \$488 million increase).

(b) Credit risk

Credit risk is the risk that a customer or counterparty to a financial instrument will fail to perform or fail to pay amounts due causing financial loss to the group and arises from cash and cash equivalents, derivative financial instruments and deposits with financial institutions and principally from credit exposures to customers relating to outstanding receivables. Credit exposure also exists in relation to guarantees issued by group companies under which the outstanding exposure incremental to that recognized on the balance sheet at 31 December 2017 was \$656 million (2016 \$309 million) in respect of liabilities of joint ventures and associates and \$382 million (2016 \$370 million) in respect of liabilities of other third parties.

27. Financial instruments and financial risk factors – continued

The group has a credit policy, approved by the CFO that is designed to ensure that consistent processes are in place throughout the group to measure and control credit risk. Credit risk is considered as part of the risk-reward balance of doing business. On entering into any business contract the extent to which the arrangement exposes the group to credit risk is considered. Key requirements of the policy include segregation of credit approval authorities from any sales, marketing or trading teams authorized to incur credit risk; the establishment of credit systems and processes to ensure that all counterparty exposure is rated and that all counterparty exposure and limits can be monitored and reported; and the timely identification and reporting of any non-approved credit exposures and credit losses. While each segment is responsible for its own credit risk management and reporting consistent with group policy, the treasury function holds group-wide credit risk authority and oversight responsibility for exposure to banks and financial institutions.

The maximum credit exposure associated with financial assets is equal to the carrying amount. The group does not aim to remove credit risk entirely but expects to experience a certain level of credit losses. As at 31 December 2017, the group had in place credit enhancements designed to mitigate approximately \$14.7 billion of credit risk (2016 \$11.6 billion). Reports are regularly prepared and presented to the GFRC that cover the group's overall credit exposure and expected loss trends, exposure by segment, and overall quality of the portfolio.

Management information used to monitor credit risk indicates that 77% (2016 79%) of total unmitigated credit exposure relates to counterparties of investment-grade credit quality.

| | \$ million | |
|--|------------|--------|
| Trade and other receivables at 31 December | 2017 | 2016 |
| Neither impaired nor past due | 22,858 | 19,459 |
| Impaired (net of provision) | 53 | 71 |
| Not impaired and past due in the following periods | | |
| within 30 days | 637 | 446 |
| 31 to 60 days | 130 | 116 |
| 61 to 90 days | 114 | 56 |
| over 90 days | 569 | 468 |
| | 24,361 | 20,616 |

Movements in the impairment provision for trade receivables are shown in Note 19.

Financial instruments subject to offsetting, enforceable master netting arrangements and similar agreements

The following table shows the amounts recognized for financial assets and liabilities which are subject to offsetting arrangements on a gross basis, and the amounts offset in the balance sheet.

Amounts which cannot be offset under IFRS, but which could be settled net under the terms of master netting agreements if certain conditions arise, and collateral received or pledged, are also presented in the table to show the total net exposure of the group.

| | \$ million | | | | | | |
|-----------------------------|--|-----------------|--|--|------------------------------------|------------------------------------|------------|
| | Gross amounts of recognized financial assets (liabilities) | | Net amounts presented on the balance sheet | Related amounts not set off in the balance sheet | | Net amount | |
| | Amounts set off | Amounts set off | Amounts set off | Master netting arrangements | Cash collateral (received) pledged | Cash collateral (received) pledged | Net amount |
| At 31 December 2017 | | | | | | | |
| Derivative assets | 8,522 | (1,380) |)7,142 | (1,554 |)(321 |)5,267 | |
| Derivative liabilities | (7,818 |)1,380 | (6,438 |)1,554 | — | (4,884 |) |
| Trade and other receivables | 11,648 | (5,311) |)6,337 | (2,156 |)(114 |)4,067 | |
| Trade and other payables | (12,543 |)5,311 | (7,232 |)2,156 | — | (5,076 |) |
| At 31 December 2016 | | | | | | | |
| Derivative assets | 9,025 | (1,882) |)7,143 | (1,058 |)(133 |)5,952 | |
| Derivative liabilities | (10,236 |)1,882 | (8,354 |)1,058 | — | (7,296 |) |

| | | | | | | |
|-----------------------------|--------|--------|--------|--------|-------|--------|
| Trade and other receivables | 8,815 | (4,468 |)4,347 | (1,039 |)(118 |)3,190 |
| Trade and other payables | (9,664 |)4,468 | (5,196 |)1,039 | — | (4,157 |

(c) Liquidity risk

Liquidity risk is the risk that suitable sources of funding for the group's business activities may not be available. The group's liquidity is managed centrally with operating units forecasting their cash and currency requirements to the central treasury function. Unless restricted by local regulations, generally subsidiaries pool their cash surpluses to the treasury function, which will then arrange to fund other subsidiaries' requirements, or invest any net surplus in the market or arrange for necessary external borrowings, while managing the group's overall net currency positions. Standard & Poor's Ratings long-term credit rating for BP is A- (stable outlook) and Moody's Investors Service rating is A1 (positive outlook).

During 2017, \$8 billion of long-term taxable bonds were issued with terms ranging from one to twelve years.

Commercial paper is issued at competitive rates to meet short-term borrowing requirements as and when needed.

As a further liquidity measure, the group continues to maintain suitable levels of cash and cash equivalents, amounting to \$25.6 billion at 31 December 2017 (2016 \$23.5 billion), primarily invested with highly rated banks or money market funds and readily accessible at immediate and short notice. At 31 December 2017, the group had substantial amounts of undrawn borrowing facilities available, consisting of \$7,625 million of standby facilities, all of which is available to draw and repay up to the first half of 2022. These facilities are with 25 international banks, and borrowings under them would be at pre-agreed rates.

The group also has committed letter of credit (LC) facilities totalling \$9,400 million with a number of banks, allowing LCs to be issued for a maximum 23-month duration. There were also uncommitted secured LC facilities in place at 31 December 2017 for \$1,560 million, which are secured against inventories or receivables when utilized. The facilities only terminate by either party giving a stipulated termination notice to the other.

27. Financial instruments and financial risk factors – continued

The amounts shown for finance debt in the table below include future minimum lease payments with respect to finance leases. The table also shows the timing of cash outflows relating to trade and other payables and accruals.

| | 2017 | | | | 2016 | | | |
|-----------------|---------------------------------------|----------|---------------------------|--------------------------|---------------------------------------|----------|---------------------------|---------------------------------------|
| | Trade and other payables ^a | Accruals | Finance debt ^b | Interest on finance debt | Trade and other payables ^a | Accruals | Finance debt ^b | Interest on finance debt ^c |
| Within one year | 40,472 | 4,960 | 7,626 | 1,757 | 35,774 | 5,136 | 6,620 | 1,217 |
| 1 to 2 years | 1,693 | 135 | 7,331 | 1,537 | 2,005 | 186 | 5,909 | 1,083 |
| 2 to 3 years | 1,413 | 83 | 7,068 | 1,321 | 1,278 | 91 | 6,624 | 942 |
| 3 to 4 years | 1,378 | 70 | 6,766 | 1,114 | 1,239 | 53 | 6,201 | 801 |
| 4 to 5 years | 1,368 | 54 | 7,986 | 894 | 1,229 | 33 | 6,564 | 658 |
| 5 to 10 years | 6,181 | 115 | 24,162 | 1,951 | 5,826 | 75 | 22,190 | 1,446 |
| Over 10 years | 6,125 | 48 | 2,089 | 390 | 7,248 | 31 | 3,573 | 382 |
| | 58,630 | 5,465 | 63,028 | 8,964 | 54,599 | 5,605 | 57,681 | 6,529 |

^a 2017 includes \$18,918 million (2016 \$21,644 million) in relation to the Gulf of Mexico oil spill.

^b Fair value adjustments relating to hedging activity have been excluded from finance debt which therefore is not equal the amounts presented on the balance sheet. 2016 has been amended to conform with this presentation.

^c 2016 has been amended to exclude interest payments that do not relate to finance debt. Interest on liabilities is included in trade and other payables.

The group manages liquidity risk associated with derivative contracts, other than derivative hedging instruments, based on the expected maturities of both derivative assets and liabilities as indicated in Note 28. Management does not currently anticipate any cash flows that could be of a significantly different amount, or could occur earlier than the expected maturity analysis provided.

The table below shows the timing of cash outflows for derivative financial instruments entered into for the purpose of managing interest rate and foreign currency exchange risk associated with net debt, whether or not hedge accounting is applied, based upon contractual payment dates. The amounts reflect the gross settlement amount where the pay leg of a derivative will be settled separately from the receive leg, as in the case of cross-currency swaps hedging non-US dollar finance debt. The swaps are with high investment-grade counterparties and therefore the settlement-day risk exposure is considered to be negligible. Not shown in the table are the gross settlement amounts (inflows) for the receive leg of derivatives that are settled separately from the pay leg, which amount to \$21,484 million at 31 December 2017 (2016 \$18,014 million) to be received on the same day as the related cash outflows. For further information on our derivative financial instruments, see Note 28.

| Cash outflows for derivative financial instruments at 31 December | \$ million | |
|---|------------|--------|
| | 2017 | 2016 |
| Within one year | 1,505 | 2,677 |
| 1 to 2 years | 1,700 | 1,505 |
| 2 to 3 years | 1,678 | 1,700 |
| 3 to 4 years | 2,384 | 1,678 |
| 4 to 5 years | 2,838 | 2,384 |
| 5 to 10 years | 11,238 | 9,985 |
| Over 10 years | 724 | 1,413 |
| | 22,067 | 21,342 |

28. Derivative financial instruments

In the normal course of business the group enters into derivative financial instruments (derivatives) to manage its normal business exposures in relation to commodity prices, foreign currency exchange rates and interest rates,

including management of the balance between floating rate and fixed rate debt, consistent with risk management policies and objectives. An outline of the group's financial risks and the objectives and policies pursued in relation to those risks is set out in Note 27. Additionally, the group has a well-established entrepreneurial trading operation that is undertaken in conjunction with these activities using a similar range of contracts.

For information on significant estimates and judgements made in relation to the valuation of derivatives see Derivative financial instruments within Note 1.

The fair values of derivative financial instruments at 31 December are set out below.

Exchange traded derivatives are valued using closing prices provided by the exchange as at the balance sheet date.

These derivatives are categorized within level 1 of the fair value hierarchy.

Over-the-counter (OTC) financial swaps and physical commodity sale and purchase contracts are generally valued using readily available information in the public markets and quotations provided by brokers and price index developers. These quotes are corroborated with market data and are categorized within level 2 of the fair value hierarchy.

In certain less liquid markets, or for longer-term contracts, forward prices are not as readily available. In these circumstances, OTC financial swaps and physical commodity sale and purchase contracts are valued using internally developed methodologies that consider historical relationships between various commodities, and that result in management's best estimate of fair value. These contracts are categorized within level 3 of the fair value hierarchy. Financial OTC and physical commodity options are valued using industry standard models that consider various assumptions, including quoted forward prices for commodities, time value, volatility factors, and contractual prices for the underlying instruments, as well as other relevant economic factors. The degree to which these inputs are observable in the forward markets determines whether the option is categorized within level 2 or level 3 of the fair value hierarchy.

28. Derivative financial instruments – continued

| | \$ million | | | |
|--|---------------------|-------------------------|---------------------|-------------------------|
| | 2017 | | 2016 | |
| | Fair value asset | Fair value liability | Fair value asset | Fair value liability |
| Derivatives held for trading | | | | |
| Currency derivatives | 237 | (756) | 167 | (2,000) |
| Oil price derivatives | 1,637 | (1,281) | 1,543 | (952) |
| Natural gas price derivatives | 3,580 | (2,844) | 3,780 | (2,845) |
| Power price derivatives | 885 | (693) | 768 | (560) |
| Other derivatives | 115 | — | 232 | — |
| | 6,454 | (5,574) | 6,490 | (6,357) |
| Embedded derivatives | | | | |
| Commodity price contracts | — | (16) | — | (50) |
| Other embedded derivatives | — | (115) | — | (100) |
| | — | (131) | — | (150) |
| Cash flow hedges | | | | |
| Currency forwards, futures and cylinders | 35 | (35) | 32 | (451) |
| Cross-currency interest rate swaps | — | — | — | (154) |
| | 35 | (35) | 32 | (605) |
| Fair value hedges | | | | |
| Currency forwards, futures and swaps | 460 | (523) | 22 | (1,159) |
| Interest rate swaps | 193 | (306) | 831 | (233) |
| | 653 | (829) | 853 | (1,392) |
| | 7,142 | (6,569) | 7,375 | (8,504) |
| Of which – current | 3,032 | (2,808) | 3,016 | (2,991) |
| – non-current | 4,110 | (3,761) | 4,359 | (5,513) |

Derivatives held for trading

The group maintains active trading positions in a variety of derivatives. The contracts may be entered into for risk management purposes, to satisfy supply requirements or for entrepreneurial trading. Certain contracts are classified as held for trading, regardless of their original business objective, and are recognized at fair value with changes in fair value recognized in the income statement. Trading activities are undertaken by using a range of contract types in combination to create incremental gains by arbitraging prices between markets, locations and time periods. The net of these exposures is monitored using market value-at-risk techniques as described in Note 27.

The following tables show further information on the fair value of derivatives and other financial instruments held for trading purposes.

Derivative assets held for trading have the following fair values and maturities.

| | \$ million | | | | | | Total |
|-------------------------------|---------------------|-----------|-----------|-----------|-----------|-----------------|-------|
| | Less than 1 year | 1-2 years | 2-3 years | 3-4 years | 4-5 years | Over 5 years | |
| Currency derivatives | 186 | 31 | 8 | 5 | 3 | 4 | 237 |
| Oil price derivatives | 1,280 | 177 | 99 | 66 | 14 | 1 | 1,637 |
| Natural gas price derivatives | 1,122 | 609 | 428 | 328 | 288 | 805 | 3,580 |
| Power price derivatives | 420 | 188 | 81 | 60 | 38 | 98 | 885 |
| Other derivatives | — | — | — | — | — | 115 | 115 |
| | 3,008 | 1,005 | 616 | 459 | 343 | 1,023 | 6,454 |

\$ million
2016

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| | Less than 1 year | 1-2 years | 2-3 years | 3-4 years | 4-5 years | Over 5 years | Total |
|-------------------------------|---------------------|-----------|-----------|-----------|-----------|-----------------|-------|
| Currency derivatives | 102 | 34 | 20 | 2 | 7 | 2 | 167 |
| Oil price derivatives | 1,178 | 201 | 91 | 49 | 22 | 2 | 1,543 |
| Natural gas price derivatives | 1,238 | 647 | 424 | 313 | 267 | 891 | 3,780 |
| Power price derivatives | 305 | 164 | 114 | 58 | 53 | 74 | 768 |
| Other derivatives | 132 | — | — | — | — | 100 | 232 |
| | 2,955 | 1,046 | 649 | 422 | 349 | 1,069 | 6,490 |

At 31 December 2016 the group had a contingent consideration receivable in respect of the disposal of the Texas City refinery. The sale agreement contained an embedded derivative and had been designated at fair value through profit or loss and shown within other derivatives held for trading, within level 3 of the fair value hierarchy. The valuation was dependent on refinery throughput and future margins and final payment was received in 2017.

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28. Derivative financial instruments – continued

Derivative liabilities held for trading have the following fair values and maturities.

| | \$ million 2017 | | | | | | |
|-------------------------------|---------------------|-----------|-----------|-----------|-----------|-----------------|---------|
| | Less than 1 year | 1-2 years | 2-3 years | 3-4 years | 4-5 years | Over 5 years | Total |
| Currency derivatives | (92) | (232) | (66) | (188) | (99) | (79) | (756) |
| Oil price derivatives | (1,120) | (118) | (33) | (4) | (6) | — | (1,281) |
| Natural gas price derivatives | (973) | (410) | (334) | (224) | (194) | (709) | (2,844) |
| Power price derivatives | (337) | (134) | (63) | (39) | (29) | (91) | (693) |
| | (2,522) | (894) | (496) | (455) | (328) | (879) | (5,574) |

| | \$ million 2016 | | | | | | |
|-------------------------------|---------------------|-----------|-----------|-----------|-----------|-----------------|---------|
| | Less than 1 year | 1-2 years | 2-3 years | 3-4 years | 4-5 years | Over 5 years | Total |
| Currency derivatives | (379) | (36) | (402) | (101) | (338) | (744) | (2,000) |
| Oil price derivatives | (787) | (105) | (40) | (11) | (3) | (6) | (952) |
| Natural gas price derivatives | (947) | (421) | (257) | (258) | (197) | (765) | (2,845) |
| Power price derivatives | (201) | (126) | (81) | (39) | (31) | (82) | (560) |
| | (2,314) | (688) | (780) | (409) | (569) | (1,597) | (6,357) |

The following table shows the fair value of derivative assets and derivative liabilities held for trading, analysed by maturity period and by methodology of fair value estimation. This information is presented on a gross basis, that is, before netting by counterparty.

| | \$ million 2017 | | | | | | |
|--------------------------------------|---------------------|-----------|-----------|-----------|-----------|-----------------|---------|
| | Less than 1 year | 1-2 years | 2-3 years | 3-4 years | 4-5 years | Over 5 years | Total |
| Fair value of derivative assets | | | | | | | |
| Level 2 | 3,663 | 1,003 | 438 | 244 | 140 | 135 | 5,623 |
| Level 3 | 386 | 258 | 231 | 226 | 211 | 899 | 2,211 |
| | 4,049 | 1,261 | 669 | 470 | 351 | 1,034 | 7,834 |
| Less: netting by counterparty | (1,041) | (256) | (53) | (11) | (8) | (11) | (1,380) |
| | 3,008 | 1,005 | 616 | 459 | 343 | 1,023 | 6,454 |
| Fair value of derivative liabilities | | | | | | | |
| Level 2 | (3,338) | (953) | (358) | (289) | (163) | (166) | (5,267) |
| Level 3 | (225) | (197) | (191) | (177) | (173) | (724) | (1,687) |
| | (3,563) | (1,150) | (549) | (466) | (336) | (890) | (6,954) |
| Less: netting by counterparty | 1,041 | 256 | 53 | 11 | 8 | 11 | 1,380 |
| | (2,522) | (894) | (496) | (455) | (328) | (879) | (5,574) |
| Net fair value | 486 | 111 | 120 | 4 | 15 | 144 | 880 |

| | \$ million 2016 | | | | | | |
|---------------------------------|---------------------|-----------|-----------|-----------|-----------|-----------------|-------|
| | Less than 1 year | 1-2 years | 2-3 years | 3-4 years | 4-5 years | Over 5 years | Total |
| Fair value of derivative assets | | | | | | | |
| Level 2 | 3,962 | 1,035 | 509 | 208 | 117 | 189 | 6,020 |
| Level 3 | 448 | 265 | 249 | 243 | 241 | 906 | 2,352 |
| | 4,410 | 1,300 | 758 | 451 | 358 | 1,095 | 8,372 |

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| | | | | | | | | |
|--------------------------------------|--------|--------|--------|--------|--------|----------|----------|---|
| Less: netting by counterparty | (1,455 |) (254 |) (109 |) (29 |) (9 |) (26 |) (1,882 |) |
| | 2,955 | 1,046 | 649 | 422 | 349 | 1,069 | 6,490 | |
| Fair value of derivative liabilities | | | | | | | | |
| Level 2 | (3,610 |) (778 |) (701 |) (249 |) (401 |) (872 |) (6,611 |) |
| Level 3 | (159 |) (164 |) (188 |) (189 |) (177 |) (751 |) (1,628 |) |
| | (3,769 |) (942 |) (889 |) (438 |) (578 |) (1,623 |) (8,239 |) |
| Less: netting by counterparty | 1,455 | 254 | 109 | 29 | 9 | 26 | 1,882 | |
| | (2,314 |) (688 |) (780 |) (409 |) (569 |) (1,597 |) (6,357 |) |
| Net fair value | 641 | 358 | (131 |) 13 | (220 |) (528 |) 133 | |

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28. Derivative financial instruments – continued

Level 3 derivatives

The following table shows the changes during the year in the net fair value of derivatives held for trading purposes within level 3 of the fair value hierarchy.

| | \$ million | | | | |
|---|------------|-------------------|-------------|-------|-------|
| | Oil price | Natural gas price | Power price | Other | Total |
| Fair value contracts at 1 January 2017 | 68 | 145 | (147 |)231 | 297 |
| Gains (losses) recognized in the income statement | 76 | 161 | 61 | 15 | 313 |
| Settlements | (68 |)(35 |)(113 |)(131 |)(347 |
| Transfers out of level 3 | (9 |)(206 |)(27 |)— | (242 |
| Net fair value of contracts at 31 December 2017 | 67 | 65 | (226 |)115 | 21 |
| Deferred day-one gains (losses) | | | | | 503 |
| Derivative asset (liability) | | | | | 524 |

| | \$ million | | | | |
|---|------------|-------------------|-------------|-------|-------|
| | Oil price | Natural gas price | Power price | Other | Total |
| Fair value contracts at 1 January 2016 | 169 | 214 | 91 | 292 | 766 |
| Gains (losses) recognized in the income statement | (37 |)1 | (82 |)139 | 21 |
| Settlements | (63 |)(51 |)(145 |)(200 |)(459 |
| Transfers out of level 3 | (1 |)(19 |)(11 |)— | (31 |
| Net fair value of contracts at 31 December 2016 | 68 | 145 | (147 |)231 | 297 |
| Deferred day-one gains (losses) | | | | | 427 |
| Derivative asset (liability) | | | | | 724 |

The amount recognized in the income statement for the year relating to level 3 held-for-trading derivatives still held at 31 December 2017 was a \$234-million gain (2016 \$253-million loss related to derivatives still held at 31 December 2016).

Derivative gains and losses

The group enters into derivative contracts including futures, options, swaps and certain forward sales and forward purchases contracts, relating to both currency and commodity trading activities. Gains or losses arise on contracts entered into for risk management purposes, optimization activity and entrepreneurial trading. They also arise on certain contracts that are for normal procurement or sales activity for the group but that are required to be fair valued under accounting standards. These gains and losses are included within sales and other operating revenues in the income statement. Also included within this line item are gains and losses on inventory held for trading purposes. The total amount relating to all these items (excluding gains and losses on realized physical derivative contracts that have been reflected gross in the income statement within sales and purchases) was a net gain of \$1,983 million (2016 \$1,435 million net gain and 2015 \$5,508 million net gain). This number does not include gains and losses on realized physical derivative contracts that have been reflected gross in the income statement within sales and purchases or the change in value of transportation and storage contracts which are not recognized under IFRS, but does include the associated financially settled contracts. The net amounts for actual gains and losses relating to these derivative contracts and all related items therefore differ significantly from the amounts disclosed above.

The group also enters into derivative contracts including futures, options, swaps and certain forward sales and forward purchase contracts primarily relating to foreign currency risk management activities. Gains and losses on these contracts are included within production and manufacturing expenses in the income statement. The change in the unrealized value of these contracts was a net gain of \$1,420 million (2016 \$154 million net loss and 2015 \$833 million net loss), however the gains and losses in each year are largely offset by opposing net foreign exchange differences on retranslation of the associated non-US dollar debt. The net amounts for actual gains and losses relating to these derivative contracts and all related items therefore differ significantly from the amounts disclosed above.

Cash flow hedges

At 31 December 2017, the group held currency forwards used to hedge the foreign currency risk of highly probable forecast transactions. Note 27 outlines the group's approach to foreign currency exchange risk management. For cash flow hedges the group only claims hedge accounting for the spot value on the currency with any fair value attributable to forward points taken immediately to the income statement. The amounts remaining in equity at 31 December 2017 in relation to these cash flow hedges consist of deferred losses of \$21 million maturing in 2018, deferred gains of \$8 million maturing in 2019 and deferred gains of \$2 million maturing in 2020 and beyond.

Fair value hedges

At 31 December 2017, the group held interest rate and cross-currency interest rate swap contracts as fair value hedges of the interest rate risk and foreign currency risk on fixed rate debt issued by the group. The gain on the hedging derivative instruments recognized in the income statement in 2017 was \$364 million (2016 \$316-million loss and 2015 \$788-million loss) offset by a loss on the fair value of the finance debt of \$394 million (2016 \$270-million gain and 2015 \$833-million gain).

The interest rate and cross-currency interest rate swaps mature within one to twelve years, and have the same maturity terms as the debt that they are hedging. They are used to convert sterling, euro, Swiss franc, Australian dollar, Canadian dollar, Norwegian krone and Hong Kong dollar denominated fixed rate borrowings into floating rate debt. Note 27 outlines the group's approach to interest rate and foreign currency exchange risk management.

29. Called-up share capital

The allotted, called up and fully paid share capital at 31 December was as follows:

| Issued | 2017 | | 2016 | | 2015 | |
|--|--------------------|------------|--------------------|------------|--------------------|------------|
| | Shares thousand | \$ million | Shares thousand | \$ million | Shares thousand | \$ million |
| 8% cumulative first preference shares of £1 each ^a | 7,233 | 12 | 7,233 | 12 | 7,233 | 12 |
| 9% cumulative second preference shares of £1 each ^a | 5,473 | 9 | 5,473 | 9 | 5,473 | 9 |
| | | 21 | | 21 | | 21 |
| Ordinary shares of 25 cents each | | | | | | |
| At 1 January | 21,049,696 | 5,263 | 20,108,771 | 5,028 | 20,005,961 | 5,002 |
| Issue of new shares for the scrip dividend programme | 289,789 | 72 | 548,005 | 137 | 102,810 | 26 |
| Issue of new shares – other ^b | — | — | 392,920 | 98 | — | — |
| Repurchase of ordinary share capital | (51,292) | (13) | — | — | — | — |
| At 31 December | 21,288,193 | 5,322 | 21,049,696 | 5,263 | 20,108,771 | 5,028 |
| | | 5,343 | | 5,284 | | 5,049 |

^a The nominal amount of 8% cumulative first preference shares and 9% cumulative second preference shares that can be in issue at any time shall not exceed £10,000,000 for each class of preference shares.

^b Relates to the issue of new ordinary shares in consideration for a 10% interest in the Abu Dhabi onshore oil concession. See Note 30 for further information.

Voting on substantive resolutions tabled at a general meeting is on a poll. On a poll, shareholders present in person or by proxy have two votes for every £5 in nominal amount of the first and second preference shares held and one vote for every ordinary share held. On a show-of-hands vote on other resolutions (procedural matters) at a general meeting, shareholders present in person or by proxy have one vote each.

In the event of the winding up of the company, preference shareholders would be entitled to a sum equal to the capital paid up on the preference shares, plus an amount in respect of accrued and unpaid dividends and a premium equal to the higher of (i) 10% of the capital paid up on the preference shares and (ii) the excess of the average market price of such shares on the London Stock Exchange during the previous six months over par value.

During 2017 the company repurchased 51 million ordinary shares for a total consideration of \$343 million, including transaction costs of \$2 million, as part of the share repurchase programme announced on 31 October 2017. All shares purchased were for cancellation. The repurchased shares represented 0.2% of ordinary share capital.

Treasury shares^a

| | 2017 | | 2016 | | 2015 | |
|--|--------------------|-----------------------------|--------------------|-----------------------------|--------------------|-----------------------------|
| | Shares thousand | Nominal value \$ million | Shares thousand | Nominal value \$ million | Shares thousand | Nominal value \$ million |
| At 1 January | 1,614,657 | 403 | 1,756,327 | 439 | 1,811,297 | 453 |
| Purchases for settlement of employee share plans | 4,423 | 1 | 9,631 | 2 | 51,142 | 13 |
| Shares re-issued for employee share-based payment plans ^b | (137,008) | (34) | (151,301) | (38) | (106,112) | (27) |
| At 31 December | 1,482,072 | 370 | 1,614,657 | 403 | 1,756,327 | 439 |
| Of which – shares held in treasury by BP | 1,472,343 | 368 | 1,576,411 | 394 | 1,727,763 | 432 |
| – shares held in ESOP trusts | 9,705 | 2 | 21,432 | 5 | 18,453 | 4 |
| – shares held by BP's US share plan administrator ^c | 24 | — | 16,814 | 4 | 10,111 | 3 |

^a See Note 30 for definition of treasury shares.

^b A minor amendment has been made to the number of shares re-issued for employee share-based payment plans in 2016.

^c Held in the form of ADSs to meet the requirements of employee share-based payment plans in the US.

For each year presented, the balance at 1 January represents the maximum number of shares held in treasury by BP during the year, representing 7.5% (2016 8.6% and 2015 8.9%) of the called-up ordinary share capital of the company. During 2017, the movement in shares held in treasury by BP represented less than 0.5% (2016 less than 0.8% and 2015 less than 0.2%) of the ordinary share capital of the company.

30. Capital and reserves

| | Share capital | Share premium account | Capital redemption reserve | Merger reserve | Total share capital and capital reserves |
|--|---------------|-----------------------|----------------------------|----------------|--|
| At 1 January 2017 | 5,284 | 12,219 | 1,413 | 27,206 | 46,122 |
| Profit (loss) for the year | — | — | — | — | — |
| Items that may be reclassified subsequently to profit or loss | | | | | |
| Currency translation differences (including recycling) | — | — | — | — | — |
| Available-for-sale investments (including recycling) | — | — | — | — | — |
| Cash flow hedges (including recycling) | — | — | — | — | — |
| Share of items relating to equity-accounted entities, net of tax ^a | — | — | — | — | — |
| Other | — | — | — | — | — |
| Items that will not be reclassified to profit or loss | | | | | |
| Remeasurements of the net pension and other post-retirement benefit liability or asset | — | — | — | — | — |
| Total comprehensive income | — | — | — | — | — |
| Dividends | 72 | (72) | — | — | — |
| Repurchases of ordinary share capital | (13) | — | 13 | — | — |
| Share-based payments, net of tax ^b | — | — | — | — | — |
| Share of equity-accounted entities' changes in equity, net of tax | — | — | — | — | — |
| Transactions involving non-controlling interests ^c | — | — | — | — | — |
| At 31 December 2017 | 5,343 | 12,147 | 1,426 | 27,206 | 46,122 |
| | | | | | |
| | Share capital | Share premium account | Capital redemption reserve | Merger reserve | Total share capital and capital reserves |
| At 1 January 2016 | 5,049 | 10,234 | 1,413 | 27,206 | 43,902 |
| Profit (loss) for the year | — | — | — | — | — |
| Items that may be reclassified subsequently to profit or loss | | | | | |
| Currency translation differences (including recycling) | — | — | — | — | — |
| Available-for-sale investments (including recycling) | — | — | — | — | — |
| Cash flow hedges (including recycling) | — | — | — | — | — |
| Share of items relating to equity-accounted entities, net of tax ^a | — | — | — | — | — |
| Other | — | — | — | — | — |
| Items that will not be reclassified to profit or loss | | | | | |
| Remeasurements of the net pension and other post-retirement benefit liability or asset | — | — | — | — | — |
| Total comprehensive income | — | — | — | — | — |
| Dividends | 137 | (137) | — | — | — |
| Share-based payments, net of tax ^{b d} | 98 | 2,122 | — | — | 2,220 |
| Share of equity-accounted entities' changes in equity, net of tax | — | — | — | — | — |
| Transactions involving non-controlling interests | — | — | — | — | — |
| At 31 December 2016 | 5,284 | 12,219 | 1,413 | 27,206 | 46,122 |
| | | | | | |
| | Share capital | Share premium account | Capital redemption reserve | Merger reserve | Total share capital and capital reserves |

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| | | | | reserves | |
|--|-------|--------|-------|----------|--------|
| At 1 January 2015 | 5,023 | 10,260 | 1,413 | 27,206 | 43,902 |
| Profit (loss) for the year | — | — | — | — | — |
| Items that may be reclassified subsequently to profit or loss | | | | | |
| Currency translation differences (including recycling) ^a | — | — | — | — | — |
| Available-for-sale investments (including recycling) | — | — | — | — | — |
| Cash flow hedges (including recycling) | — | — | — | — | — |
| Share of items relating to equity-accounted entities, net of tax ^a | — | — | — | — | — |
| Other | — | — | — | — | — |
| Items that will not be reclassified to profit or loss | | | | | |
| Remeasurements of the net pension and other post-retirement benefit liability or asset | — | — | — | — | — |
| Share of items relating to equity-accounted entities, net of tax | — | — | — | — | — |
| Total comprehensive income | — | — | — | — | — |
| Dividends | 26 | (26) |)— | — | — |
| Share-based payments, net of tax ^b | — | — | — | — | — |
| Share of equity-accounted entities' changes in equity, net of tax | — | — | — | — | — |
| Transactions involving non-controlling interests | — | — | — | — | — |
| At 31 December 2015 | 5,049 | 10,234 | 1,413 | 27,206 | 43,902 |

^a Principally foreign exchange effects relating to the Russian rouble.

^b Movements in treasury shares relate to employee share-based payment plans.

^c Principally relates to the initial public offering of common units in BP Midstream Partners LP for which net proceeds of \$811 million were received.

^d Includes ordinary shares issued to the government of Abu Dhabi in consideration for a 10% interest in the Abu Dhabi onshore oil concession. The share-based payment transaction was valued at the fair value of the interest in the assets, with reference to a market transaction for an identical interest.

30. Capital and reserves – continued

| | | | | | | | | \$ million |
|-----------------|--------------------------------------|--------------------------------|------------------|---------------------------|-------------------------|-------------------------|---------------------------|--------------|
| Treasury shares | Foreign currency translation reserve | Available-for-sale investments | Cash flow hedges | Total fair value reserves | Profit and loss account | BP shareholders' equity | Non-controlling interests | Total equity |
| (18,443) | (6,878) | 3 | (1,156) | (1,153) | 75,638 | 95,286 | 1,557 | 96,843 |
| — | — | — | — | — | 3,389 | 3,389 | 79 | 3,468 |
| — | 1,722 | — | — | — | (3 |)1,719 | 52 | 1,771 |
| — | — | 14 | — | 14 | — | 14 | — | 14 |
| — | — | — | 396 | 396 | — | 396 | — | 396 |
| — | — | — | — | — | 564 | 564 | — | 564 |
| — | — | — | — | — | (72 |) (72 |)— | (72) |
| — | — | — | — | — | 2,343 | 2,343 | — | 2,343 |
| — | 1,722 | 14 | 396 | 410 | 6,221 | 8,353 | 131 | 8,484 |
| — | — | — | — | — | (6,153 |) (6,153 |) (141 |) (6,294) |
| — | — | — | — | — | (343 |) (343 |)— | (343) |
| 1,485 | — | — | — | — | (798 |) 687 | — | 687 |
| — | — | — | — | — | 215 | 215 | — | 215 |
| — | — | — | — | — | 446 | 446 | 366 | 812 |
| (16,958) | (5,156) | 17 | (760) | (743) | 75,226 | 98,491 | 1,913 | 100,404 |
| Treasury shares | Foreign currency translation reserve | Available-for-sale investments | Cash flow hedges | Total fair value reserves | Profit and loss account | BP shareholders' equity | Non-controlling interests | Total equity |
| (19,964) | (7,267) | 2 | (825) | (823) | 81,368 | 97,216 | 1,171 | 98,387 |
| — | — | — | — | — | 115 | 115 | 57 | 172 |
| — | 389 | — | — | — | — | 389 | (27 |) 362 |
| — | — | 1 | — | 1 | — | 1 | — | 1 |
| — | — | — | (331 |) (331 |)— | (331 |)— | (331) |
| — | — | — | — | — | 833 | 833 | — | 833 |
| — | — | — | — | — | (96 |) (96 |)— | (96) |
| — | — | — | — | — | (1,757 |) (1,757 |)— | (1,757) |
| — | 389 | 1 | (331 |) (330 |) (905 |) (846 |) 30 | (816) |
| — | — | — | — | — | (4,611 |) (4,611 |) (107 |) (4,718) |
| 1,521 | — | — | — | — | (750 |) 2,991 | — | 2,991 |
| — | — | — | — | — | 106 | 106 | — | 106 |
| — | — | — | — | — | 430 | 430 | 463 | 893 |
| (18,443) | (6,878) | 3 | (1,156) | (1,153) | 75,638 | 95,286 | 1,557 | 96,843 |
| Treasury shares | Foreign currency translation reserve | Available-for-sale investments | Cash flow hedges | Total fair value reserves | Profit and loss account | BP shareholders' equity | Non-controlling interests | Total equity |
| (20,719) | (3,409) | 1 | (898) | (897) | 92,564 | 111,441 | 1,201 | 112,642 |

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| | | | | | | | | | |
|---------|----------|-----|------|--------|----------|----------|-------|----------|---|
| — | — | — | — | — | (6,482 |) (6,482 |) 82 | (6,400 |) |
| — | (3,858 |) — | — | — | — | (3,858 |) (41 |) (3,899 |) |
| — | — | 1 | — | 1 | — | 1 | — | 1 | |
| — | — | — | 73 | 73 | — | 73 | — | 73 | |
| — | — | — | — | — | (814 |) (814 |) — | (814 |) |
| — | — | — | — | — | 80 | 80 | — | 80 | |
| — | — | — | — | — | 2,742 | 2,742 | — | 2,742 | |
| — | — | — | — | — | (1 |) (1 |) — | (1 |) |
| — | (3,858 |) 1 | 73 | 74 | (4,475 |) (8,259 |) 41 | (8,218 |) |
| — | — | — | — | — | (6,659 |) (6,659 |) (91 |) (6,750 |) |
| 755 | — | — | — | — | (99 |) 656 | — | 656 | |
| — | — | — | — | — | 40 | 40 | — | 40 | |
| — | — | — | — | — | (3 |) (3 |) 20 | 17 | |
| (19,964 |) (7,267 |) 2 | (825 |) (823 |) 81,368 | 97,216 | 1,171 | 98,387 | |

30. Capital and reserves – continued

Share capital

The balance on the share capital account represents the aggregate nominal value of all ordinary and preference shares in issue, including treasury shares.

Share premium account

The balance on the share premium account represents the amounts received in excess of the nominal value of the ordinary and preference shares.

Capital redemption reserve

The balance on the capital redemption reserve represents the aggregate nominal value of all the ordinary shares repurchased and cancelled.

Merger reserve

The balance on the merger reserve represents the fair value of the consideration given in excess of the nominal value of the ordinary shares issued in an acquisition made by the issue of shares.

Treasury shares

Treasury shares represent BP shares repurchased and available for specific and limited purposes. For accounting purposes shares held in Employee Share Ownership Plans (ESOPs) and BP's US share plan administrator to meet the future requirements of the employee share-based payment plans are treated in the same manner as treasury shares and are, therefore, included in the financial statements as treasury shares. The ESOPs are funded by the group and have waived their rights to dividends in respect of such shares held for future awards. Until such time as the shares held by the ESOPs vest unconditionally to employees, the amount paid for those shares is shown as a reduction in shareholders' equity. Assets and liabilities of the ESOPs are recognized as assets and liabilities of the group.

Foreign currency translation reserve

The foreign currency translation reserve records exchange differences arising from the translation of the financial statements of foreign operations. Upon disposal of foreign operations, the related accumulated exchange differences are recycled to the income statement.

Available-for-sale investments

This reserve records the changes in fair value of available-for-sale investments except for impairment losses, foreign exchange gains or losses, or changes arising from revised estimates of future cash flows. On disposal or impairment of the investments, the cumulative changes in fair value are recycled to the income statement.

Cash flow hedges

This reserve records the portion of the gain or loss on a hedging instrument in a cash flow hedge that is determined to be an effective hedge. It includes \$651 million relating to the acquisition of an 18.5% interest in Rosneft in 2013 which will only be reclassified to the income statement if the investment in Rosneft is either sold or impaired. For further information on the accounting for cash flow hedges see Note 1 - Derivative financial instruments and hedging activities.

Profit and loss account

The balance held on this reserve is the accumulated retained profits of the group.

30. Capital and reserves – continued

The pre-tax amounts of each component of other comprehensive income, and the related amounts of tax, are shown in the table below.

| | \$ million 2017 | | |
|--|--------------------|---------|------------|
| | Pre-tax | Tax | Net of tax |
| Items that may be reclassified subsequently to profit or loss | | | |
| Currency translation differences (including recycling) | 1,866 | (95) |)1,771 |
| Available-for-sale investments (including recycling) | 14 | — | 14 |
| Cash flow hedges (including recycling) | 425 | (29) |)396 |
| Share of items relating to equity-accounted entities, net of tax | 564 | — | 564 |
| Other | — | (72) |)(72) |
| Items that will not be reclassified to profit or loss | | | |
| Remeasurements of the net pension and other post-retirement benefit liability or asset | 3,646 | (1,303) | 2,343 |
| Other comprehensive income | 6,515 | (1,499) | 5,016 |

| | \$ million 2016 | | |
|--|--------------------|------|------------|
| | Pre-tax | Tax | Net of tax |
| Items that may be reclassified subsequently to profit or loss | | | |
| Currency translation differences (including recycling) | 284 | 78 | 362 |
| Available-for-sale investments (including recycling) | 1 | — | 1 |
| Cash flow hedges (including recycling) | (362) |)31 | (331) |
| Share of items relating to equity-accounted entities, net of tax | 833 | — | 833 |
| Other | — | (96) |)(96) |
| Items that will not be reclassified to profit or loss | | | |
| Remeasurements of the net pension and other post-retirement benefit liability or asset | (2,496) |)739 | (1,757) |
| Other comprehensive income | (1,740) |)752 | (988) |

| | \$ million 2015 | | |
|--|--------------------|----------|------------|
| | Pre-tax | Tax | Net of tax |
| Items that may be reclassified subsequently to profit or loss | | | |
| Currency translation differences (including recycling) | (4,096) |)197 | (3,899) |
| Available-for-sale investments (including recycling) | 1 | — | 1 |
| Cash flow hedges (including recycling) | 93 | (20) |)73 |
| Share of items relating to equity-accounted entities, net of tax | (814) |)— | (814) |
| Other | — | 80 | 80 |
| Items that will not be reclassified to profit or loss | | | |
| Remeasurements of the net pension and other post-retirement benefit liability or asset | 4,139 | (1,397) | 2,742 |
| Share of items relating to equity-accounted entities, net of tax | (1) |)— | (1) |
| Other comprehensive income | (678) |)(1,140) | (1,818) |

31. Contingent liabilities

Contingent liabilities related to the Gulf of Mexico oil spill

See Note 2 for information on contingent liabilities related to the Gulf of Mexico oil spill.

Contingent liabilities not related to the Gulf of Mexico oil spill

There were contingent liabilities at 31 December 2017 in respect of guarantees and indemnities entered into as part of the ordinary course of the group's business. No material losses are likely to arise from such contingent liabilities.

Further information on financial guarantees is included in Note 27.

In the normal course of the group's business, legal and regulatory proceedings are pending or may be brought against BP group entities arising out of current and past operations, including matters related to commercial disputes, product liability, antitrust, commodities trading, premises-liability claims, consumer protection, general health, safety and environmental claims and allegations of exposures of third parties to toxic substances, such as lead pigment in paint, asbestos and other chemicals. BP believes that the impact of these legal proceedings on the group's results of operations, liquidity or financial position will not be material.

The group files tax returns in many jurisdictions throughout the world. Various tax authorities are currently examining the group's tax returns. Tax returns contain matters that could be subject to differing interpretations of applicable tax laws and regulations including the tax deductibility of certain intercompany charges. The resolution of tax positions through negotiations with relevant tax authorities, or through litigation, can take several years to complete and the amounts could be significant and could be material to the group's results of operations, financial position or liquidity. While it is difficult to predict the ultimate outcome in some cases, the group does not anticipate that there will be any material impact upon the group's results of operations, financial position or liquidity.

31. Contingent liabilities – continued

The group is subject to numerous national and local health, safety and environmental laws and regulations concerning its products, operations and other activities. These laws and regulations may require the group to take future action to remediate the effects on the environment of prior disposal or release of chemicals or petroleum substances by the group or other parties. Such contingencies may exist for various sites including refineries, chemical plants, oil fields, commodities extraction sites, service stations, terminals and waste disposal sites. In addition, the group may have obligations relating to prior asset sales or closed facilities. The ultimate requirement for remediation and its cost are inherently difficult to estimate. However, the estimated cost of known environmental obligations has been provided in these accounts in accordance with the group's accounting policies. While the amounts of future costs that are not provided for could be significant and could be material to the group's results of operations in the period in which they are recognized, it is not possible to estimate the amounts involved. BP does not expect these costs to have a material effect on the group's financial position or liquidity.

If oil and natural gas production facilities and pipelines are sold to third parties and the subsequent owner is unable to meet their decommissioning obligations it is possible that, in certain circumstances, BP could be partially or wholly responsible for decommissioning. BP is not currently aware of any such cases that have a greater than remote chance of reverting to the Group. Furthermore, as described in Provisions and contingencies within Note 1, decommissioning provisions associated with downstream and petrochemical facilities are not generally recognized as the potential obligations cannot be measured given their indeterminate settlement dates.

32. Remuneration of senior management and non-executive directors

Remuneration of directors

| | \$ million | | |
|---|------------|------|------|
| | 2017 | 2016 | 2015 |
| Total for all directors | | | |
| Emoluments | 9 | 10 | 10 |
| Amounts received under incentive schemes ^a | 9 | 14 | 14 |
| Total | 18 | 24 | 24 |

^a Excludes amounts relating to past directors.

Emoluments

These amounts comprise fees paid to the non-executive chairman and the non-executive directors and, for executive directors, salary and benefits earned during the relevant financial year, plus cash bonuses awarded for the year.

Pension contributions

During 2017, one executive director participated in a UK final salary pension plan in respect of service prior to 1 April 2011. During 2017, one executive director participated in retirement savings plans established for US employees and in a US defined pension plan in respect of service prior to 1 September 2016.

Further information

Full details of individual directors' remuneration are given in the Directors' remuneration report on page 90.

Remuneration of directors and senior management

| | \$ million | | |
|---|------------|------|------|
| | 2017 | 2016 | 2015 |
| Total for all senior management and non-executive directors | | | |
| Short-term employee benefits | 29 | 28 | 33 |
| Pensions and other post-retirement benefits | 2 | 3 | 4 |
| Share-based payments | 29 | 39 | 36 |
| Total | 60 | 70 | 73 |

Senior management comprises members of the executive team, see pages 66-67 for further information.

Short-term employee benefits

These amounts comprise fees and benefits paid to the non-executive chairman and non-executive directors, as well as salary, benefits and cash bonuses for senior management. Deferred annual bonus awards, to be settled in shares, are included in share-based payments. Short term employee benefits includes compensation for loss of office of \$nil in

2017 (2016 \$2.2 million and 2015 \$nil).

Pensions and other post-retirement benefits

The amounts represent the estimated cost to the group of providing pensions and other post-retirement benefits to senior management in respect of the current year of service measured in accordance with IAS 19 'Employee Benefits'.

Share-based payments

This is the cost to the group of senior management's participation in share-based payment plans, as measured by the fair value of options and shares granted, accounted for in accordance with IFRS 2 'Share-based Payments'.

33. Employee costs and numbers

| | \$ million | | | | | | | | |
|---|------------|--------|--------|------|--|--|------|--|--|
| Employee costs | 2017 | | | 2016 | | | 2015 | | |
| Wages and salaries ^a | 7,572 | 8,456 | 9,556 | | | | | | |
| Social security costs | 711 | 760 | 879 | | | | | | |
| Share-based payments ^b | 624 | 764 | 833 | | | | | | |
| Pension and other post-retirement benefit costs | 1,296 | 1,253 | 1,660 | | | | | | |
| | 10,203 | 11,233 | 12,928 | | | | | | |

| | 2017 | | | 2016 | | | 2015 | | |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Average number of employees ^c | US | Non-US | Total | US | Non-US | Total | US | Non-US | Total |
| Upstream | 6,200 | 12,200 | 18,400 | 6,700 | 13,500 | 20,200 | 7,900 | 15,100 | 23,000 |
| Downstream ^{d e} | 6,100 | 35,900 | 42,000 | 6,600 | 36,600 | 43,200 | 7,800 | 38,200 | 46,000 |
| Other businesses and corporate ^{e f} | 1,900 | 12,400 | 14,300 | 1,900 | 12,100 | 14,000 | 1,700 | 11,900 | 13,600 |
| | 14,200 | 60,500 | 74,700 | 15,200 | 62,200 | 77,400 | 17,400 | 65,200 | 82,600 |

^a Includes termination costs of \$189 million (2016 \$545 million and 2015 \$857 million).

^b The group provides certain employees with shares and share options as part of their remuneration packages. The majority of these share-based payment arrangements are equity-settled.

^c Reported to the nearest 100.

^d Includes 16,500 (2016 15,800 and 2015 15,000) service station staff.

^e Around 800 centralized function employees were reallocated from Upstream and Downstream to Other businesses and corporate during 2016, and around 2,000 from the global business services organization were reallocated from Downstream to Other businesses and corporate during 2015.

^f Includes 4,700 (2016 4,900 and 2015 5,300) agricultural, operational and seasonal workers in Brazil.

34. Auditor's remuneration

| | \$ million | | |
|---|------------|------|------|
| Fees – Ernst & Young | 2017 | 2016 | 2015 |
| The audit of the company annual accounts ^a | 26 | 25 | 27 |
| The audit of accounts of subsidiaries of the company | 11 | 12 | 13 |
| Total audit | 37 | 37 | 40 |
| Audit-related assurance services ^b | 7 | 7 | 7 |
| Total audit and audit-related assurance services | 44 | 44 | 47 |
| Taxation compliance services | — | 1 | 1 |
| Services relating to corporate finance transactions | — | — | 1 |
| Non-audit and other assurance services | 3 | 1 | 1 |
| Total non-audit or non-audit-related assurance services | 3 | 2 | 3 |
| Services relating to BP pension plans ^c | — | 1 | 1 |
| | 47 | 47 | 51 |

^a Fees in respect of the audit of the accounts of BP p.l.c. including the group's consolidated financial statements.

^b Includes interim reviews and audit of internal control over financial reporting and non-statutory audit services.

^c The pension plan services include tax compliance service of \$nil (2016 \$nil and 2015 \$0.4 million).

2017 includes \$1.6 million of additional fees for 2016 and 2016 includes \$1 million of additional fees for 2015.

Auditors' remuneration is included in the income statement within distribution and administration expenses.

The tax services relate to income tax and indirect tax compliance, employee tax services and tax advisory services.

The audit committee has established pre-approval policies and procedures for the engagement of Ernst & Young to render audit and certain assurance and other services. The audit fees payable to Ernst & Young are reviewed by the audit committee in the context of other global companies for cost-effectiveness. Ernst & Young performed further assurance services that were not prohibited by regulatory or other professional requirements and were pre-approved by the Committee. Ernst & Young is engaged for these services when its expertise and experience of BP are important.

Most of this work is of an audit nature.

Under SEC regulations, the remuneration of the auditor of \$47 million (2016 \$47 million and 2015 \$51 million) is required to be presented as follows: audit \$37 million (2016 \$37 million and 2015 \$40 million); other audit-related \$7 million (2016 \$7 million and 2015 \$7 million); tax \$nil (2016 \$1 million and 2015 \$1 million); and all other fees \$3 million (2016 \$2 million and 2015 \$3 million).

35. Subsidiaries, joint arrangements and associates

The more important subsidiaries and associates of the group at 31 December 2017 and the group percentage of ordinary share capital (to nearest whole number) are set out below. There are no individually significant joint arrangements. Those held directly by the parent company are marked with an asterisk (*), the percentage owned being that of the group unless otherwise indicated. A complete list of undertakings of the group is included in Note 14 in the parent company financial statements of BP p.l.c. which are filed with the Registrar of Companies in the UK, along with the group's annual report.

| Subsidiaries | % | Country of incorporation | Principal activities |
|----------------------------------|-----|--------------------------|--|
| International | | | |
| BP Corporate Holdings | 100 | England & Wales | Investment holding |
| BP Exploration Operating Company | 100 | England & Wales | Exploration and production |
| *BP Global Investments | 100 | England & Wales | Investment holding |
| *BP International | 100 | England & Wales | Integrated oil operations |
| BP Oil International | 100 | England & Wales | Integrated oil operations |
| *Burmah Castrol | 100 | Scotland | Lubricants |
| Angola | | | |
| BP Exploration (Angola) | 100 | England & Wales | Exploration and production |
| Azerbaijan | | | |
| BP Exploration (Caspian Sea) | 100 | England & Wales | Exploration and production |
| BP Exploration (Azerbaijan) | 100 | England & Wales | Exploration and production |
| Canada | | | |
| *BP Holdings Canada | 100 | England & Wales | Investment holding |
| Egypt | | | |
| BP Exploration (Delta) | 100 | England & Wales | Exploration and production |
| Germany | | | |
| BP Europa SE | 100 | Germany | Refining and marketing |
| India | | | |
| BP Exploration (Alpha) | 100 | England & Wales | Exploration and production |
| Trinidad & Tobago | | | |
| BP Trinidad and Tobago | 70 | US | Exploration and production |
| UK | | | |
| BP Capital Markets | 100 | England & Wales | Finance |
| US | | | |
| *BP Holdings North America | 100 | England & Wales | Investment holding |
| Atlantic Richfield Company | 100 | US | |
| BP America | 100 | US | |
| BP America Production Company | 100 | US | |
| BP Company North America | 100 | US | |
| BP Corporation North America | 100 | US | Exploration and production, refining and marketing |
| BP Exploration (Alaska) | 100 | US | |
| BP Products North America | 100 | US | |
| Standard Oil Company | 100 | US | |
| BP Capital Markets America | 100 | US | Finance |
| Associates | | | |
| Russia | | | |
| Rosneft | 20 | Russia | Integrated oil operations |

36. Condensed consolidating information on certain US subsidiaries

BP p.l.c. fully and unconditionally guarantees the payment obligations of its 100%-owned subsidiary BP Exploration (Alaska) Inc. under the BP Prudhoe Bay Royalty Trust. The following financial information for BP p.l.c., BP Exploration (Alaska) Inc. and all other subsidiaries on a condensed consolidating basis is intended to provide investors with meaningful and comparable financial information about BP p.l.c. and its subsidiary issuers of registered securities and is provided pursuant to Rule 3-10 of Regulation S-X in lieu of the separate financial statements of each subsidiary issuer of public debt securities. Non-current assets for BP p.l.c. includes investments in subsidiaries recorded under the equity method for the purposes of the condensed consolidating financial information.

Equity-accounted income of subsidiaries is the group's share of profit related to such investments. The eliminations and reclassifications column includes the necessary amounts to eliminate the intercompany balances and transactions between BP p.l.c., BP Exploration (Alaska) Inc. and other subsidiaries. The financial information presented in the following tables for BP Exploration (Alaska) Inc. incorporates subsidiaries of BP Exploration (Alaska) Inc. using the equity method of accounting and excludes the BP group's midstream operations in Alaska that are reported through different legal entities and that are included within the 'other subsidiaries' column in these tables. BP p.l.c. also fully and unconditionally guarantees securities issued by BP Capital Markets p.l.c. and BP Capital Markets America Inc. These companies are 100%-owned finance subsidiaries of BP p.l.c.

Income statement

| | \$ million 2017 | | | | |
|--|---|------------------------|-----------------------|---------------------------------------|-------------|
| For the year ended 31 December | Issuer BP Exploration (Alaska) Inc. | Guarantor BP p.l.c. | Other subsidiaries | Eliminations and reclassifications | BP group |
| Sales and other operating revenues | 3,264 | — | 240,177 | (3,233) |)240,208 |
| Earnings from joint ventures - after interest and tax | — | — | 1,177 | — | 1,177 |
| Earnings from associates - after interest and tax | — | — | 1,330 | — | 1,330 |
| Equity-accounted income of subsidiaries - after interest and tax | — | 4,436 | — | (4,436) |)— |
| Interest and other income | 11 | 369 | 1,470 | (1,193) |)657 |
| Gains on sale of businesses and fixed assets | 71 | 9 | 1,139 | (9) |)1,210 |
| Total revenues and other income | 3,346 | 4,814 | 245,293 | (8,871) |)244,582 |
| Purchases | 1,010 | — | 181,939 | (3,233) |)179,716 |
| Production and manufacturing expenses | 1,156 | — | 23,073 | — | 24,229 |
| Production and similar taxes ^a | (18) |)— | 1,793 | — | 1,775 |
| Depreciation, depletion and amortization | 735 | — | 14,849 | — | 15,584 |
| Impairment and losses on sale of businesses and fixed assets | — | — | 1,216 | — | 1,216 |
| Exploration expense | — | — | 2,080 | — | 2,080 |
| Distribution and administration expenses | 19 | 616 | 10,022 | (149) |)10,508 |
| Profit (loss) before interest and taxation | 444 | 4,198 | 10,321 | (5,489) |)9,474 |
| Finance costs | 6 | 826 | 2,286 | (1,044) |)2,074 |
| Net finance (income) expense relating to pensions and other post-retirement benefits | — | (15 |)235 | — | 220 |
| Profit (loss) before taxation | 438 | 3,387 | 7,800 | (4,445) |)7,180 |

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| | | | | | |
|----------------------------|------|-------|--------|--------|--------|
| Taxation | (392 |)(11 |)4,115 | — | 3,712 |
| Profit (loss) for the year | 830 | 3,398 | 3,685 | (4,445 |)3,468 |
| Attributable to | | | | | |
| BP shareholders | 830 | 3,398 | 3,606 | (4,445 |)3,389 |
| Non-controlling interests | — | — | 79 | — | 79 |
| | 830 | 3,398 | 3,685 | (4,445 |)3,468 |

^a Includes revised non-cash provision adjustments; actual cash payments for Production and similar taxes remain in line with prior year.

Statement of comprehensive income

| | | | | | \$ million 2017 |
|---|---------------------------------|-----------|-----------------------|---------------------------------------|-----------------------|
| For the year ended 31 December | | | | | |
| | Issuer | Guarantor | | | |
| | BP Exploration (Alaska) Inc. | BP p.l.c. | Other subsidiaries | Eliminations and reclassifications | BP group |
| Profit (loss) for the year | 830 | 3,398 | 3,685 | (4,445 |)3,468 |
| Other comprehensive income | — | 1,981 | 3,035 | — | 5,016 |
| Equity-accounted other comprehensive income of subsidiaries | — | 2,983 | — | (2,983 |)— |
| Total comprehensive income | 830 | 8,362 | 6,720 | (7,428 |)8,484 |
| Attributable to | | | | | |
| BP shareholders | 830 | 8,362 | 6,589 | (7,428 |)8,353 |
| Non-controlling interests | — | — | 131 | — | 131 |
| | 830 | 8,362 | 6,720 | (7,428 |)8,484 |

36. Condensed consolidating information on certain US subsidiaries – continued
Income statement continued

| For the year ended 31 December | | | | | \$ million 2016 |
|--|---|------------------------|-----------------------|---------------------------------------|-----------------------|
| | Issuer BP Exploration (Alaska) Inc. | Guarantor BP p.l.c. | Other subsidiaries | Eliminations and reclassifications | BP group |
| Sales and other operating revenues | 2,740 | — | 182,999 | (2,731 |)183,008 |
| Earnings from joint ventures - after interest and tax | — | — | 966 | — | 966 |
| Earnings from associates - after interest and tax | — | — | 994 | — | 994 |
| Equity-accounted income of subsidiaries - after interest and tax | — | 862 | — | (862 |)— |
| Interest and other income | 94 | 343 | 899 | (830 |)506 |
| Gains on sale of businesses and fixed assets | — | — | 1,132 | — | 1,132 |
| Total revenues and other income | 2,834 | 1,205 | 186,990 | (4,423 |)186,606 |
| Purchases | 888 | — | 134,062 | (2,731 |)132,219 |
| Production and manufacturing expenses | 1,171 | — | 27,906 | — | 29,077 |
| Production and similar taxes | 102 | — | 581 | — | 683 |
| Depreciation, depletion and amortization | 673 | — | 13,832 | — | 14,505 |
| Impairment and losses on sale of businesses and fixed assets | (147 |)— | (1,517 |)— | (1,664) |
| Exploration expense | — | — | 1,721 | — | 1,721 |
| Distribution and administration expenses | — | 808 | 9,797 | (110 |)10,495 |
| Profit (loss) before interest and taxation | 147 | 397 | 608 | (1,582 |)430) |
| Finance costs | 103 | 311 | 1,981 | (720 |)1,675 |
| Net finance (income) expense relating to pensions and other post-retirement benefits | — | (82 |)272 | — | 190 |
| Profit (loss) before taxation | 44 | 168 | (1,645 |)862 |)2,295) |
| Taxation | (41 |)53 | (2,479 |)— | (2,467) |
| Profit (loss) for the year | 85 | 115 | 834 | (862 |)172 |
| Attributable to | | | | | |
| BP shareholders | 85 | 115 | 777 | (862 |)115 |
| Non-controlling interests | — | — | 57 | — | 57 |
| | 85 | 115 | 834 | (862 |)172 |

Statement of comprehensive income continued

| | | | | | \$ million 2016 |
|--|---|------------------------|-----------------------|---------------------------------------|-----------------------|
| | Issuer BP Exploration (Alaska) Inc. | Guarantor BP p.l.c. | Other subsidiaries | Eliminations and reclassifications | BP group |

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| | | | | | |
|---|----|--------|--------|--------|---------|
| Profit (loss) for the year | 85 | 115 | 834 | (862 |)172 |
| Other comprehensive income | — | (1,505 |)517 | — | (988) |
| Equity-accounted other comprehensive income of subsidiaries | — | 544 | — | (544 |)— |
| Total comprehensive income Attributable to | 85 | (846 |)1,351 | (1,406 |)(816) |
| BP shareholders | 85 | (846 |)1,321 | (1,406 |)(846) |
| Non-controlling interests | — | — | 30 | — | 30 |
| | 85 | (846 |)1,351 | (1,406 |)(816) |

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36. Condensed consolidating information on certain US subsidiaries – continued

Income statement continued

| | | | | | \$ million 2015 |
|--|---|------------------------|-----------------------|---------------------------------------|-----------------------|
| | Issuer BP Exploration (Alaska) Inc. | Guarantor BP p.l.c. | Other subsidiaries | Eliminations and reclassifications | BP group |
| Sales and other operating revenues | 3,438 | — | 222,881 | (3,425 |)222,894 |
| Earnings from joint ventures - after interest and tax | — | — | (28 |)— | (28) |
| Earnings from associates - after interest and tax | — | — | 1,839 | — | 1,839 |
| Equity-accounted income of subsidiaries - after interest and tax | — | (5,404 |)— | 5,404 | — |
| Interest and other income | 29 | 185 | 671 | (274 |)611 |
| Gains on sale of businesses and fixed assets | — | 31 | 666 | (31 |)666 |
| Total revenues and other income | 3,467 | (5,188 |)226,029 | 1,674 | 225,982 |
| Purchases | 1,432 | — | 166,783 | (3,425 |)164,790 |
| Production and manufacturing expenses | 1,360 | — | 35,680 | — | 37,040 |
| Production and similar taxes | 140 | — | 896 | — | 1,036 |
| Depreciation, depletion and amortization | 569 | — | 14,650 | — | 15,219 |
| Impairment and losses on sale of businesses and fixed assets | 176 | — | 1,733 | — | 1,909 |
| Exploration expense | — | — | 2,353 | — | 2,353 |
| Distribution and administration expenses | 56 | 1,125 | 10,449 | (77 |)11,553 |
| Profit (loss) before interest and taxation | (266 |)(6,313 |)(6,515 |)5,176 | (7,918) |
| Finance costs | 35 | 36 | 1,473 | (197 |)1,347 |
| Net finance (income) expense relating to pensions and other post-retirement benefits | — | 20 | 286 | — | 306 |
| Profit (loss) before taxation | (301 |)(6,369 |)(8,274 |)5,373 | (9,571) |
| Taxation | (129 |)82 | (3,124 |)— | (3,171) |
| Profit (loss) for the year | (172 |)(6,451 |)(5,150 |)5,373 | (6,400) |
| Attributable to | | | | | |
| BP shareholders | (172 |)(6,451 |)(5,232 |)5,373 | (6,482) |
| Non-controlling interests | — | — | 82 | — | 82 |
| | (172 |)(6,451 |)(5,150 |)5,373 | (6,400) |

Statement of comprehensive income continued

| | Issuer | Guarantor BP p.l.c. | | \$ million 2015 |
|--|--------|------------------------|--|-----------------------|
|--|--------|------------------------|--|-----------------------|

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| | BP Exploration (Alaska) Inc. | | Other subsidiaries | Eliminations and reclassifications | BP group |
|---|---------------------------------|---------|-----------------------|---------------------------------------|-------------|
| Profit (loss) for the year | (172 |)(6,451 |)(5,150 |)5,373 | (6,400) |
| Other comprehensive income | — | 1,863 | (3,681 |)— | (1,818) |
| Equity-accounted other comprehensive income of subsidiaries | — | (3,640 |)— | 3,640 | — |
| Total comprehensive income | (172 |)(8,228 |)(8,831 |)9,013 | (8,218) |
| Attributable to | | | | | |
| BP shareholders | (172 |)(8,228 |)(8,872 |)9,013 | (8,259) |
| Non-controlling interests | — | — | 41 | — | 41 |
| | (172 |)(8,228 |)(8,831 |)9,013 | (8,218) |

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36. Condensed consolidating information on certain US subsidiaries – continued

Balance sheet

| | | | | | \$ million 2017 |
|--|---|------------------------|-----------------------|---------------------------------------|-----------------------|
| | Issuer BP Exploration (Alaska) Inc. | Guarantor BP p.l.c. | Other subsidiaries | Eliminations and reclassifications | BP group |
| Non-current assets | | | | | |
| Property, plant and equipment | 6,973 | — | 122,498 | — | 129,471 |
| Goodwill | — | — | 11,551 | — | 11,551 |
| Intangible assets | 585 | — | 17,770 | — | 18,355 |
| Investments in joint ventures | — | — | 7,994 | — | 7,994 |
| Investments in associates | — | 2 | 16,989 | — | 16,991 |
| Other investments | — | — | 1,245 | — | 1,245 |
| Subsidiaries - equity-accounted basis | — | 161,840 | — | (161,840) |)— |
| Fixed assets | 7,558 | 161,842 | 178,047 | (161,840) |)185,607 |
| Loans | 1 | — | 34,701 | (34,056) |)646 |
| Trade and other receivables | — | 2,623 | 1,434 | (2,623) |)1,434 |
| Derivative financial instruments | — | — | 4,110 | — | 4,110 |
| Prepayments | — | — | 1,112 | — | 1,112 |
| Deferred tax assets | — | — | 4,469 | — | 4,469 |
| Defined benefit pension plan surpluses | — | 3,838 | 331 | — | 4,169 |
| | 7,559 | 168,303 | 224,204 | (198,519) |)201,547 |
| Current assets | | | | | |
| Loans | — | — | 190 | — | 190 |
| Inventories | 274 | — | 18,737 | — | 19,011 |
| Trade and other receivables | 2,206 | 293 | 32,691 | (10,341) |)24,849 |
| Derivative financial instruments | — | — | 3,032 | — | 3,032 |
| Prepayments | 2 | — | 1,412 | — | 1,414 |
| Current tax receivable | — | — | 761 | — | 761 |
| Other investments | — | — | 125 | — | 125 |
| Cash and cash equivalents | — | 10 | 25,576 | — | 25,586 |
| | 2,482 | 303 | 82,524 | (10,341) |)74,968 |
| Total assets | 10,041 | 168,606 | 306,728 | (208,860) |)276,515 |
| Current liabilities | | | | | |
| Trade and other payables | 673 | 7,843 | 46,034 | (10,341) |)44,209 |
| Derivative financial instruments | — | — | 2,808 | — | 2,808 |
| Accruals | 115 | 60 | 4,785 | — | 4,960 |
| Finance debt | — | — | 7,739 | — | 7,739 |
| Current tax payable | — | — | 1,686 | — | 1,686 |
| Provisions | 1 | — | 3,323 | — | 3,324 |
| | 789 | 7,903 | 66,375 | (10,341) |)64,726 |
| Non-current liabilities | | | | | |
| Other payables | — | 34,104 | 16,464 | (36,679) |)13,889 |
| Derivative financial instruments | — | — | 3,761 | — | 3,761 |
| Accruals | — | — | 505 | — | 505 |
| Finance debt | — | — | 55,491 | — | 55,491 |
| Deferred tax liabilities | 838 | 1,337 | 5,807 | — | 7,982 |
| Provisions | 1,222 | — | 19,398 | — | 20,620 |

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| | | | | | |
|--|-------|---------|---------|----------|----------|
| Defined benefit pension plan and other post-retirement benefit plan deficits | — | 221 | 8,916 | — | 9,137 |
| | 2,060 | 35,662 | 110,342 | (36,679 |)111,385 |
| Total liabilities | 2,849 | 43,565 | 176,717 | (47,020 |)176,111 |
| Net assets | 7,192 | 125,041 | 130,011 | (161,840 |)100,404 |
| Equity | | | | | |
| BP shareholders' equity | 7,192 | 125,041 | 128,098 | (161,840 |)98,491 |
| Non-controlling interests | — | — | 1,913 | — | 1,913 |
| | 7,192 | 125,041 | 130,011 | (161,840 |)100,404 |

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36. Condensed consolidating information on certain US subsidiaries – continued

Balance sheet continued

| | | | | | \$ million 2016 |
|--|---|------------------------|-----------------------|---------------------------------------|-----------------------|
| | Issuer BP Exploration (Alaska) Inc. | Guarantor BP p.l.c. | Other subsidiaries | Eliminations and reclassifications | BP group |
| Non-current assets | | | | | |
| Property, plant and equipment | 7,405 | — | 122,352 | — | 129,757 |
| Goodwill | — | — | 11,194 | — | 11,194 |
| Intangible assets | 578 | — | 17,605 | — | 18,183 |
| Investments in joint ventures | — | — | 8,609 | — | 8,609 |
| Investments in associates | — | 2 | 14,090 | — | 14,092 |
| Other investments | — | — | 1,033 | — | 1,033 |
| Subsidiaries - equity-accounted basis | — | 156,864 | — | (156,864 |)— |
| Fixed assets | 7,983 | 156,866 | 174,883 | (156,864 |)182,868 |
| Loans | 9 | — | 34,941 | (34,418 |)532 |
| Trade and other receivables | — | 2,951 | 1,474 | (2,951 |)1,474 |
| Derivative financial instruments | — | — | 4,359 | — | 4,359 |
| Prepayments | — | — | 945 | — | 945 |
| Deferred tax assets | — | — | 4,741 | — | 4,741 |
| Defined benefit pension plan surpluses | — | 528 | 56 | — | 584 |
| | 7,992 | 160,345 | 221,399 | (194,233 |)195,503 |
| Current assets | | | | | |
| Loans | — | — | 259 | — | 259 |
| Inventories | 249 | — | 17,406 | — | 17,655 |
| Trade and other receivables ^a | 1,593 | 487 | 24,610 | (6,015 |)20,675 |
| Derivative financial instruments | — | — | 3,016 | — | 3,016 |
| Prepayments | 7 | — | 1,479 | — | 1,486 |
| Current tax receivable | — | — | 1,194 | — | 1,194 |
| Other investments | — | — | 44 | — | 44 |
| Cash and cash equivalents | — | 50 | 23,434 | — | 23,484 |
| | 1,849 | 537 | 71,442 | (6,015 |)67,813 |
| Total assets | 9,841 | 160,882 | 292,841 | (200,248 |)263,316 |
| Current liabilities | | | | | |
| Trade and other payables ^a | 672 | 4,096 | 39,162 | (6,015 |)37,915 |
| Derivative financial instruments | — | — | 2,991 | — | 2,991 |
| Accruals | 116 | 129 | 4,891 | — | 5,136 |
| Finance debt | — | — | 6,634 | — | 6,634 |
| Current tax payable ^a | — | — | 1,666 | — | 1,666 |
| Provisions | 2 | — | 4,010 | — | 4,012 |
| | 790 | 4,225 | 59,354 | (6,015 |)58,354 |
| Non-current liabilities | | | | | |
| Other payables | 20 | 34,389 | 16,906 | (37,369 |)13,946 |
| Derivative financial instruments | — | — | 5,513 | — | 5,513 |
| Accruals | — | 43 | 426 | — | 469 |
| Finance debt | — | — | 51,666 | — | 51,666 |
| Deferred tax liabilities | 1,279 | 179 | 5,780 | — | 7,238 |
| Provisions | 1,390 | — | 19,022 | — | 20,412 |

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| | | | | | |
|--|-------|---------|---------|-----------|----------|
| Defined benefit pension plan and other post-retirement benefit plan deficits | — | 219 | 8,656 | — | 8,875 |
| | 2,689 | 34,830 | 107,969 | (37,369) |)108,119 |
| Total liabilities | 3,479 | 39,055 | 167,323 | (43,384) |)166,473 |
| Net assets | 6,362 | 121,827 | 125,518 | (156,864) |)96,843 |
| Equity | | | | | |
| BP shareholders' equity ^a | 6,362 | 121,827 | 123,961 | (156,864) |)95,286 |
| Non-controlling interests | — | — | 1,557 | — | 1,557 |
| | 6,362 | 121,827 | 125,518 | (156,864) |)96,843 |

^a Amendments have been made to previously reported amounts for BP Exploration (Alaska) Inc., reducing current trade and other receivables by \$990 million, current trade and other payables by \$50 million and current tax payable by \$11 million, with offsetting amendments to BP shareholders' equity. This relates to intra-BP group balances and, as such, amendments have also been made to the same line items presented for Other subsidiaries as well as eliminations amounts. The amendments represent the adjustment of amounts recorded in earlier periods by BP Exploration (Alaska) Inc. as intra-BP group balances relating to group re-organizations and the tax consequences thereon which are now considered to be more appropriately treated as shown by the amended amounts above.

36. Condensed consolidating information on certain US subsidiaries – continued

Cash flow statement

| | | Guarantor | | \$ million 2017 |
|--|---|------------------------|-----------------------|-----------------------|
| | Issuer BP Exploration (Alaska) Inc. | BP p.l.c. | Other subsidiaries | BP group |
| Net cash provided by operating activities | 227 | 6,456 | 12,248 | 18,931 |
| Net cash provided by (used in) investing activities | (227 |)— | (13,850 |)(14,077) |
| Net cash provided by (used in) financing activities | — | (6,496 |)3,200 | (3,296) |
| Currency translation differences relating to cash and cash equivalents | — | — | 544 | 544 |
| Increase (decrease) in cash and cash equivalents | — | (40 |)2,142 | 2,102 |
| Cash and cash equivalents at beginning of year | — | 50 | 23,434 | 23,484 |
| Cash and cash equivalents at end of year | — | 10 | 25,576 | 25,586 |
| | | | | \$ million 2016 |
| For the year ended 31 December | | | | |
| | Issuer BP Exploration (Alaska) Inc. | Guarantor BP p.l.c. | Other subsidiaries | BP group |
| Net cash provided by operating activities | 699 | 4,661 | 5,331 | 10,691 |
| Net cash provided by (used in) investing activities | (699 |)— | (14,054 |)(14,753) |
| Net cash provided by (used in) financing activities | — | (4,611 |)6,588 | 1,977 |
| Currency translation differences relating to cash and cash equivalents | — | — | (820 |)(820) |
| Increase (decrease) in cash and cash equivalents | — | 50 | (2,955 |)(2,905) |
| Cash and cash equivalents at beginning of year | — | — | 26,389 | 26,389 |
| Cash and cash equivalents at end of year | — | 50 | 23,434 | 23,484 |
| | | | | \$ million 2015 |
| For the year ended 31 December | | | | |
| | Issuer BP Exploration (Alaska) Inc. | Guarantor BP p.l.c. | Other subsidiaries | BP group |
| Net cash provided by operating activities | 925 | 6,628 | 11,580 | 19,133 |
| Net cash provided by (used in) investing activities | (925 |)— | (16,375 |)(17,300) |
| Net cash provided by (used in) financing activities | — | (6,659 |)2,124 | (4,535) |
| Currency translation differences relating to cash and cash equivalents | — | — | (672 |)(672) |
| Increase (decrease) in cash and cash equivalents | — | (31 |)(3,343 |)(3,374) |
| Cash and cash equivalents at beginning of year | — | 31 | 29,732 | 29,763 |
| Cash and cash equivalents at end of year | — | — | 26,389 | 26,389 |

Supplementary information on oil and natural gas (unaudited)

The regional analysis presented below is on a continent basis, with separate disclosure for countries that contain 15% or more of the total proved reserves (for subsidiaries plus equity-accounted entities), in accordance with SEC and FASB requirements.

Oil and gas reserves – certain definitions

Unless the context indicates otherwise, the following terms have the meanings shown below:

Proved oil and gas reserves

Proved oil and gas reserves are those quantities of oil and gas, which, by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be economically producible – from a given date forward, from known reservoirs, and under existing economic conditions, operating methods, and government regulations – prior to the time at which contracts providing the right to operate expire, unless evidence indicates that renewal is reasonably certain, regardless of whether deterministic or probabilistic methods are used for the estimation. The project to extract the hydrocarbons must have commenced or the operator must be reasonably certain that it will commence the project within a reasonable time.

(i) The area of the reservoir considered as proved includes:

(A) The area identified by drilling and limited by fluid contacts, if any; and

(B) Adjacent undrilled portions of the reservoir that can, with reasonable certainty, be judged to be continuous with it and to contain economically producible oil or gas on the basis of available geoscience and engineering data.

In the absence of data on fluid contacts, proved quantities in a reservoir are limited by the lowest known

(ii) hydrocarbons (LKH) as seen in a well penetration unless geoscience, engineering, or performance data and reliable technology establishes a lower contact with reasonable certainty.

Where direct observation from well penetrations has defined a highest known oil (HKO) elevation and the

(iii) potential exists for an associated gas cap, proved oil reserves may be assigned in the structurally higher portions of the reservoir only if geoscience, engineering, or performance data and reliable technology establish the higher contact with reasonable certainty.

(iv) Reserves which can be produced economically through application of improved recovery techniques (including, but not limited to, fluid injection) are included in the proved classification when:

(A) Successful testing by a pilot project in an area of the reservoir with properties no more favourable than in the reservoir as a whole, the operation of an installed programme in the reservoir or an analogous reservoir, or other evidence using reliable technology establishes the reasonable certainty of the engineering analysis on which the project or programme was based; and

(B) The project has been approved for development by all necessary parties and entities, including governmental entities.

Existing economic conditions include prices and costs at which economic producibility from a reservoir is to be determined. The price shall be the average price during the 12-month period prior to the ending date of the period

(v) covered by the report, determined as an unweighted arithmetic average of the first-day-of-the-month price for each month within such period, unless prices are defined by contractual arrangements, excluding escalations based upon future conditions.

Undeveloped oil and gas reserves

Undeveloped oil and gas reserves are reserves of any category that are expected to be recovered from new wells on undrilled acreage, or from existing wells where a relatively major expenditure is required for recompletion.

Reserves on undrilled acreage shall be limited to those directly offsetting development spacing areas that are

(i) reasonably certain of production when drilled, unless evidence using reliable technology exists that establishes reasonable certainty of economic producibility at greater distances.

Undrilled locations can be classified as having undeveloped reserves only if a development plan has been adopted

(ii) indicating that they are scheduled to be drilled within five years, unless the specific circumstances, justify a longer time.

(iii) Under no circumstances shall estimates for undeveloped reserves be attributable to any acreage for which an application of fluid injection or other improved recovery technique is contemplated, unless such techniques have been proved effective by actual projects in the same reservoir or an analogous reservoir, or by other evidence

using reliable technology establishing reasonable certainty.

Developed oil and gas reserves

Developed oil and gas reserves are reserves of any category that can be expected to be recovered:

- (i) Through existing wells with existing equipment and operating methods or in which the cost of the required equipment is relatively minor compared to the cost of a new well; and
- (ii) Through installed extraction equipment and infrastructure operational at the time of the reserves estimate if the extraction is by means not involving a well.

For details on BP's proved reserves and production compliance and governance processes, see pages 259-264.

Oil and natural gas exploration and production activities

| | | | | | | | | | | \$ million 2017 |
|---|--------|----------------------|------------------|-----------------------------|------------------|--------|--------|-----------------|-------|-----------------------|
| | Europe | | North America | | South America | Africa | Asia | Australasia | | Total |
| | UK | Rest of Europe | US | Rest of North America | | | Russia | Rest of Asia | | |
| Subsidiaries | | | | | | | | | | |
| Capitalized costs at 31 December ^{a b} | | | | | | | | | | |
| Gross capitalized costs | | | | | | | | | | |
| Proved properties | 34,208 | — | 83,449 | 3,518 | 13,581 | 49,795 | — | 35,519 | 5,984 | 226,054 |
| Unproved properties | 481 | — | 3,957 | 2,561 | 2,905 | 4,013 | — | 3,407 | 562 | 17,886 |
| | 34,689 | — | 87,406 | 6,079 | 16,486 | 53,808 | — | 38,926 | 6,546 | 243,940 |
| Accumulated depreciation | 21,793 | — | 48,462 | 367 | 7,495 | 34,870 | — | 18,007 | 3,192 | 134,186 |
| Net capitalized costs | 12,896 | — | 38,944 | 5,712 | 8,991 | 18,938 | — | 20,919 | 3,354 | 109,754 |
| Costs incurred for the year ended 31 December ^a | | | | | | | | | | |
| b | | | | | | | | | | |
| Acquisition of properties | | | | | | | | | | |
| Proved | — | — | 22 | — | — | 564 | — | 1,187 | — | 1,773 |
| Unproved | 13 | — | 13 | — | 330 | 374 | — | 228 | — | 958 |
| | 13 | — | 35 | — | 330 | 938 | — | 1,415 | — | 2,731 |
| Exploration and appraisal costs ^c | 336 | — | 102 | 52 | 264 | 682 | 11 | 190 | 18 | 1,655 |
| Development | 995 | — | 2,776 | 58 | 911 | 2,972 | — | 2,760 | 223 | 10,695 |
| Total costs | 1,344 | — | 2,913 | 110 | 1,505 | 4,592 | 11 | 4,365 | 241 | 15,081 |
| Results of operations for the year ended 31 December ^a | | | | | | | | | | |
| Sales and other operating revenues ^d | | | | | | | | | | |
| Third parties | 204 | — | 724 | 171 | 1,134 | 2,211 | — | 1,276 | 967 | 6,687 |
| Sales between businesses | 1,745 | — | 9,117 | 2 | 327 | 4,022 | — | 6,394 | 487 | 22,094 |
| | 1,949 | — | 9,841 | 173 | 1,461 | 6,233 | — | 7,670 | 1,454 | 28,781 |
| Exploration expenditure | 331 | — | 282 | 39 | 83 | 1,346 | 11 | (29) | 17 | 2,080 |
| Production costs | 629 | — | 2,256 | 116 | 573 | 979 | — | 904 | 157 | 5,614 |
| Production taxes | (37) | — | 52 | — | 86 | — | — | 1,618 | 56 | 1,775 |
| Other costs (income) ^e | (272) | 2 | 1,655 | 34 | 71 | 280 | 39 | 311 | 349 | 2,469 |
| Depreciation, depletion and amortization | 1,190 | — | 4,258 | 96 | 742 | 3,586 | — | 2,147 | 366 | 12,385 |
| Net impairments and (gains) losses on sale of businesses and fixed assets | 133 | (12) | 87 | (1) | (31) | — | — | (10) | 13 | 179 |
| | 1,974 | (10) | 8,590 | 284 | 1,524 | 6,191 | 50 | 4,941 | 958 | 24,502 |
| Profit (loss) before taxation ^f | (25) | 10 | 1,251 | (111) | (63) | 42 | (50) | 2,729 | 496 | 4,279 |
| Allocable taxes ^g | (104) | — | (1,811) | (28) | 155 | 788 | (19) | 1,505 | 146 | 632 |
| Results of operations | 79 | 10 | 3,062 | (83) | (218) | (746) | (31) | 1,224 | 350 | 3,647 |

Upstream and Rosneft segments replacement cost profit (loss) before interest and tax

| | | | | | | | | | | |
|---|------|------|-------|-------|------|-----|-----|--------|-----|-------|
| Exploration and production activities – subsidiaries (as above) | (25 |)10 | 1,251 | (111 |)(63 |)42 | (50 |)2,729 | 496 | 4,279 |
| Midstream and other activities – subsidiaries ^h | (185 |)97 | (176 |)(111 |)140 | (80 |)3 | 315 | 11 | 14 |
| Equity-accounted entities ^{i j} | — | 71 | 25 | — | 381 | 205 | 837 | 245 | — | 1,764 |
| Total replacement cost profit (loss) before interest and tax | (210 |)178 | 1,100 | (222 |)458 | 167 | 790 | 3,289 | 507 | 6,057 |

^a These tables contain information relating to oil and natural gas exploration and production activities of subsidiaries, which includes our share of oil and natural gas exploration and production activities of joint operations. They do not include any costs relating to the Gulf of Mexico oil spill. Amounts relating to the management and ownership of crude oil and natural gas pipelines, LNG liquefaction and transportation operations are excluded. In addition, our midstream activities of marketing and trading of natural gas, power and NGLs in the US, Canada, UK, Asia and Europe are excluded. The most significant midstream pipeline interests include the Trans-Alaska Pipeline System, the South Caucasus Pipeline, the Forties Pipeline System and the Baku-Tbilisi-Ceyhan pipeline. The Forties Pipeline System was divested on 31 October 2017. Major LNG activities are located in Trinidad, Indonesia, Australia and Angola.

^b Decommissioning assets are included in capitalized costs at 31 December but are excluded from costs incurred for the year.

^c Includes exploration and appraisal drilling expenditures, which are capitalized within intangible assets, and geological and geophysical exploration costs, which are charged to income as incurred.

^d Presented net of transportation costs, purchases and sales taxes.

^e Includes property taxes, other government take and the fair value gain on embedded derivatives of \$32 million. The UK region includes a \$343-million gain which is offset by corresponding charges primarily in the US region, relating to the group self-insurance programme.

^f Excludes the unwinding of the discount on provisions and payables amounting to \$120 million which is included in finance costs in the group income statement.

^g US region includes the deferred tax impact of the reduction in the US Federal corporate income tax rate from 35% to 21% enacted in December 2017.

^h Midstream and other activities excludes inventory holding gains and losses.

ⁱ The profits of equity-accounted entities are included after interest and tax.

^j From 16 December 2017, BP entered into a new 50:50 joint venture Pan American Energy Group (PAEG). Prior to this, Pan American Energy (PAE) was owned 60% by BP and 40% by Bidas Corporation. Of BP's initial 60% interest in PAE, 10% was classified as held for sale on 9 September 2017. For September, only 9 days of income was reported for the full 60%. After this equity accounting continued for the 50% not classified as held for sale. BP accounted for 50% of the enlarged entity from 16 December 2017.

Oil and natural gas exploration and production activities – continued

| | | | | | | | | \$ million 2017 | | | | | |
|---|--------|-------------------|-----------------------------------|--------|---------------------|--------------------|-----------|-----------------------|---|--------|---|------|---|
| | Europe | North America | South America | Africa | Asia | | Australia | Total | | | | | |
| | UK | Rest of Europe | Rest of US North America | | Russia ^a | Rest of Asia | | | | | | | |
| Equity-accounted entities (BP share) | | | | | | | | | | | | | |
| Capitalized costs at 31 December ^{b c} | | | | | | | | | | | | | |
| Gross capitalized costs | | | | | | | | | | | | | |
| Proved properties | — | 3,187 | — | — | 9,096 | — | 24,686 | 3,434 | — | 40,403 | | | |
| Unproved properties | — | 481 | — | — | 68 | — | 907 | 26 | — | 1,482 | | | |
| | — | 3,668 | — | — | 9,164 | — | 25,593 | 3,460 | — | 41,885 | | | |
| Accumulated depreciation | — | 400 | — | — | 4,249 | — | 6,207 | 3,460 | — | 14,316 | | | |
| Net capitalized costs | — | 3,268 | — | — | 4,915 | — | 19,386 | — | — | 27,569 | | | |
| Costs incurred for the year ended 31 December ^{b d e} | | | | | | | | | | | | | |
| Acquisition of properties ^c | | | | | | | | | | | | | |
| Proved | — | 323 | — | — | — | — | 653 | — | — | 976 | | | |
| Unproved | — | 152 | — | — | 20 | — | 416 | — | — | 588 | | | |
| | — | 475 | — | — | 20 | — | 1,069 | — | — | 1,564 | | | |
| Exploration and appraisal costs ^d | — | 49 | — | — | 43 | — | 194 | — | — | 286 | | | |
| Development | — | 199 | — | — | 576 | — | 3,361 | 446 | — | 4,582 | | | |
| Total costs | — | 723 | — | — | 639 | — | 4,624 | 446 | — | 6,432 | | | |
| Results of operations for the year ended 31 December ^b | | | | | | | | | | | | | |
| Sales and other operating revenues ^f | | | | | | | | | | | | | |
| Third parties | — | 773 | — | — | 1,750 | — | — | 988 | — | 3,511 | | | |
| Sales between businesses | — | — | — | — | — | — | 11,537 | — | — | 11,537 | | | |
| | — | 773 | — | — | 1,750 | — | 11,537 | 988 | — | 15,048 | | | |
| Exploration expenditure | — | 68 | — | — | — | — | 59 | — | — | 127 | | | |
| Production costs | — | 157 | — | — | 592 | — | 1,424 | 117 | — | 2,290 | | | |
| Production taxes | — | — | — | — | 336 | — | 5,712 | 426 | — | 6,474 | | | |
| Other costs (income) | — | 67 | — | — | 11 | — | 409 | (5 |) | 482 | | | |
| Depreciation, depletion and amortization | — | 328 | — | — | 458 | — | 1,539 | 446 | — | 2,771 | | | |
| Net impairments and losses on sale of businesses and fixed assets | — | 6 | — | — | 27 | — | 54 | — | — | 87 | | | |
| | — | 626 | — | — | 1,424 | — | 9,197 | 984 | — | 12,231 | | | |
| Profit (loss) before taxation | — | 147 | — | — | 326 | — | 2,340 | 4 | — | 2,817 | | | |
| Allocable taxes | — | 54 | — | — | (18 |) | 457 | — | — | 493 | | | |
| Results of operations ^g | — | 93 | — | — | 344 | — | 1,883 | 4 | — | 2,324 | | | |
| Upstream and Rosneft segments replacement cost profit (loss) before interest and tax from equity-accounted entities | | | | | | | | | | | | | |
| Exploration and production activities – equity-accounted entities after tax (as above) | — | 93 | — | — | 344 | — | 1,883 | 4 | — | 2,324 | | | |
| Midstream and other activities after tax ^h | — | (22 |) | 25 | — | 37 | 205 | (1,046 |) | 241 | — | (560 |) |
| | — | 71 | 25 | — | 381 | 205 | 837 | 245 | — | 1,764 | | | |

Total replacement cost profit (loss) after interest and tax

^a Amounts reported for Russia in this table include BP's share of Rosneft's worldwide activities, including insignificant amounts outside Russia.

^b These tables contain information relating to oil and natural gas exploration and production activities of equity-accounted entities. Amounts relating to the management and ownership of crude oil and natural gas pipelines, LNG liquefaction and transportation operations as well as downstream activities of Rosneft and Pan American Energy Group are excluded. The amounts reported for equity-accounted entities exclude the corresponding amounts for their equity-accounted entities.

^c Decommissioning assets are included in capitalized costs at 31 December but are excluded from costs incurred for the year.

^d Includes exploration and appraisal drilling expenditures, which are capitalized within intangible assets, and geological and geophysical exploration costs, which are charged to income as incurred.

^e The amounts shown reflect BP's share of equity-accounted entities' costs incurred, and not the costs incurred by BP in acquiring an interest in equity-accounted entities.

^f Presented net of transportation costs and sales taxes.

^g From 16 December 2017, BP entered into a new 50:50 joint venture Pan American Energy Group (PAEG). Prior to this, Pan American Energy (PAE) was owned 60% by BP and 40% by Bidas Corporation. Of BP's initial 60% interest in PAE, 10% was classified as held for sale on 9 September 2017. For September, only 9 days of income was reported for the full 60%. After this equity accounting continued for the 50% not classified as held for sale. BP accounted for 50% of the enlarged entity from 16 December 2017.

^h Includes interest and adjustment for non-controlling interests. Excludes inventory holding gains and losses.

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Oil and natural gas exploration and production activities – continued

| | | | | | | | | | | \$ million 2016 |
|---|--------|----------------|---------------|-----------------------|---------------|--------|--------|--------------|-------|-----------------------|
| | Europe | | North America | | South America | Africa | Asia | Australasia | | Total |
| | UK | Rest of Europe | US | Rest of North America | | | Russia | Rest of Asia | | |
| Subsidiaries | | | | | | | | | | |
| Capitalized costs at 31 December ^{a b} | | | | | | | | | | |
| Gross capitalized costs | | | | | | | | | | |
| Proved properties | 34,171 | — | 81,633 | 3,622 | 12,624 | 46,892 | — | 30,870 | 5,752 | 215,564 |
| Unproved properties | 483 | — | 4,712 | 2,377 | 2,450 | 3,808 | — | 4,132 | 562 | 18,524 |
| | 34,654 | — | 86,345 | 5,999 | 15,074 | 50,700 | — | 35,002 | 6,314 | 234,088 |
| Accumulated depreciation | 21,745 | — | 44,988 | 272 | 6,764 | 31,456 | — | 15,942 | 2,826 | 123,993 |
| Net capitalized costs | 12,909 | — | 41,357 | 5,727 | 8,310 | 19,244 | — | 19,060 | 3,488 | 110,095 |
| Costs incurred for the year ended 31 December ^{a b} | | | | | | | | | | |
| Acquisition of properties ^c | | | | | | | | | | |
| Proved | 215 | — | 314 | — | — | — | — | 703 | 207 | 1,439 |
| Unproved | — | — | 38 | 10 | 10 | 181 | — | 1,728 | — | 1,967 |
| | 215 | — | 352 | 10 | 10 | 181 | — | 2,431 | 207 | 3,406 |
| Exploration and appraisal costs ^d | 165 | 5 | 391 | 70 | 123 | 297 | 10 | 252 | 89 | 1,402 |
| Development | 1,284 | 3 | 2,372 | 28 | 1,519 | 2,957 | — | 2,788 | 194 | 11,145 |
| Total costs | 1,664 | 8 | 3,115 | 108 | 1,652 | 3,435 | 10 | 5,471 | 490 | 15,953 |
| Results of operations for the year ended 31 December ^a | | | | | | | | | | |
| Sales and other operating revenues ^e | | | | | | | | | | |
| Third parties | 244 | 26 | 640 | 74 | 747 | 1,215 | — | 97 | 1,042 | 4,085 |
| Sales between businesses | 1,387 | 421 | 6,204 | 2 | 103 | 3,391 | — | 3,908 | 309 | 15,725 |
| | 1,631 | 447 | 6,844 | 76 | 850 | 4,606 | — | 4,005 | 1,351 | 19,810 |
| Exploration expenditure | 133 | 3 | 693 | 61 | 672 | 87 | 10 | (27) | 89 | 1,721 |
| Production costs | 619 | 208 | 2,524 | 114 | 476 | 1,220 | — | 691 | 154 | 6,006 |
| Production taxes | (351) | — | 155 | — | 38 | — | — | 800 | 41 | 683 |
| Other costs (income) ^f | (215) | 37 | 1,687 | 25 | 115 | 597 | 34 | 115 | 153 | 2,548 |
| Depreciation, depletion and amortization | 1,002 | 209 | 3,940 | 66 | 591 | 2,937 | — | 2,179 | 289 | 11,213 |
| Net impairments and (gains) losses on sale of businesses and fixed assets | (809) | (345) | (627) | (5) | (77) | (765) | — | (182) | 63 | (2,747) |
| | 379 | 112 | 8,372 | 261 | 1,815 | 4,076 | 44 | 3,576 | 789 | 19,424 |
| Profit (loss) before taxation ^g | 1,252 | 335 | (1,528) | (185) | (965) | 530 | (44) | 429 | 562 | 386 |
| Allocable taxes ^h | (286) | (287) | (402) | (40) | (194) | 670 | (10) | (74) | 288 | (335) |
| Results of operations | 1,538 | 622 | (1,126) | (145) | (771) | (140) | (34) | 503 | 274 | 721 |

Upstream and Rosneft segments replacement cost profit (loss) before interest and tax

| | | | | | | | | | | |
|---|-------|-----|---------|-------|-------|-------|------|------|-----|-------|
| Exploration and production activities – subsidiaries (as above) | 1,252 | 335 | (1,528) | (185) | (965) | 530 | (44) | 429 | 562 | 386 |
| Midstream and other activities – subsidiaries | (417) | 54 | (14) | (137) | 187 | (142) | (2) | (81) | 13 | (539) |
| Equity-accounted entities ^j ^k | — | (1) | 20 | — | 447 | (12) | 597 | 266 | — | 1,317 |
| Total replacement cost profit (loss) before interest and tax | 835 | 388 | (1,522) | (322) | (331) | 376 | 551 | 614 | 575 | 1,164 |

^a These tables contain information relating to oil and natural gas exploration and production activities of subsidiaries, which includes our share of oil and natural gas exploration and production activities of joint operations. They do not include any costs relating to the Gulf of Mexico oil spill. Amounts relating to the management and ownership of crude oil and natural gas pipelines, LNG liquefaction and transportation operations are excluded. In addition, our midstream activities of marketing and trading of natural gas, power and NGLs in the US, Canada, UK, Asia and Europe are excluded. The most significant midstream pipeline interests include the Trans-Alaska Pipeline System, the Forties Pipeline System, the South Caucasus Pipeline and the Baku-Tbilisi-Ceyhan pipeline. Major LNG activities are located in Trinidad, Indonesia, Australia and Angola.

^b Decommissioning assets are included in capitalized costs at 31 December but are excluded from costs incurred for the year.

^c Rest of Asia amounts include BP's participating interest in the Abu Dhabi ADCO concession.

^d Includes exploration and appraisal drilling expenditures, which are capitalized within intangible assets, and geological and geophysical exploration costs, which are charged to income as incurred.

^e Presented net of transportation costs, purchases and sales taxes.

^f Includes property taxes, other government take and the fair value gain on embedded derivatives of \$32 million. The UK region includes a \$454-million gain which is offset by corresponding charges primarily in the US region, relating to the group self-insurance programme.

^g Excludes the unwinding of the discount on provisions and payables amounting to \$152 million which is included in finance costs in the group income statement.

^h UK region includes the deferred tax impact of the enactment of legislation to reduce the UK supplementary charge tax rate applicable to profits arising in the North Sea from 20% to 10%.

ⁱ Midstream and other activities excludes inventory holding gains and losses.

^j The profits of equity-accounted entities are included after interest and tax.

^k Includes the results of BP's 30% interest in Aker BP ASA from 1 October 2016.

Oil and natural gas exploration and production activities – continued

| | | | | | | | | \$ million 2016 | | |
|---|--------|-------------------|-----------------------------------|--------|---------------------|--------------------|---------|-----------------------|---|--------|
| | Europe | North America | South America | Africa | Asia | Australia | Total | | | |
| | UK | Rest of Europe | Rest of US North America | | Russia ^a | Rest of Asia | | | | |
| Equity-accounted entities (BP share) | | | | | | | | | | |
| Capitalized costs at 31 December ^{b c} | | | | | | | | | | |
| Gross capitalized costs | | | | | | | | | | |
| Proved properties | — | 2,702 | — | — | 10,211 | — | 19,558 | 3,009 | — | 35,480 |
| Unproved properties | — | 296 | — | — | 6 | — | 383 | 26 | — | 711 |
| | — | 2,998 | — | — | 10,217 | — | 19,941 | 3,035 | — | 36,191 |
| Accumulated depreciation | — | 48 | — | — | 4,615 | — | 4,401 | 3,035 | — | 12,099 |
| Net capitalized costs | — | 2,950 | — | — | 5,602 | — | 15,540 | — | — | 24,092 |
| Costs incurred for the year ended 31 December ^{b d e} | | | | | | | | | | |
| Acquisition of properties ^c | | | | | | | | | | |
| Proved | — | — | — | — | — | — | 1,576 | — | — | 1,576 |
| Unproved | — | — | — | — | — | — | 69 | — | — | 69 |
| | — | — | — | — | — | — | 1,645 | — | — | 1,645 |
| Exploration and appraisal costs ^d | — | 18 | — | — | 7 | — | 118 | 1 | — | 144 |
| Development | — | 54 | — | — | 559 | — | 2,070 | 371 | — | 3,054 |
| Total costs | — | 72 | — | — | 566 | — | 3,833 | 372 | — | 4,843 |
| Results of operations for the year ended 31 December ^b | | | | | | | | | | |
| Sales and other operating revenues ^f | | | | | | | | | | |
| Third parties | — | 162 | — | — | 1,865 | — | — | 876 | — | 2,903 |
| Sales between businesses | — | — | — | — | — | — | 8,088 | 16 | — | 8,104 |
| | — | 162 | — | — | 1,865 | — | 8,088 | 892 | — | 11,007 |
| Exploration expenditure | — | 13 | — | — | — | — | 50 | — | — | 63 |
| Production costs | — | 36 | — | — | 559 | — | 1,085 | 145 | — | 1,825 |
| Production taxes | — | — | — | — | 335 | — | 3,393 | 352 | — | 4,080 |
| Other costs (income) | — | (13) | — | — | (429) | — | 345 | 3 | — | (94) |
| Depreciation, depletion and amortization | — | 48 | — | — | 499 | — | 1,082 | 386 | — | 2,015 |
| Net impairments and losses on sale of businesses and fixed assets | — | — | — | — | 164 | — | 59 | — | — | 223 |
| | — | 84 | — | — | 1,128 | — | 6,014 | 886 | — | 8,112 |
| Profit (loss) before taxation | — | 78 | — | — | 737 | — | 2,074 | 6 | — | 2,895 |
| Allocable taxes | — | 75 | — | — | 319 | — | 435 | 3 | — | 832 |
| Results of operations ^g | — | 3 | — | — | 418 | — | 1,639 | 3 | — | 2,063 |
| Upstream and Rosneft segments replacement cost profit (loss) before interest and tax from equity-accounted entities | | | | | | | | | | |
| Exploration and production activities – equity-accounted entities after tax (as above) | — | 3 | — | — | 418 | — | 1,639 | 3 | — | 2,063 |
| Midstream and other activities after tax ^h | — | (4) | — | — | 29 | (12) | (1,042) | 263 | — | (746) |
| | — | (1) | — | — | 447 | (12) | 597 | 266 | — | 1,317 |

Total replacement cost profit (loss) after interest and tax

^a Amounts reported for Russia in this table include BP's share of Rosneft's worldwide activities, including insignificant amounts outside Russia. Amounts also include certain adjustments, mainly related to purchase price allocations for 2016 acquisitions.

^b These tables contain information relating to oil and natural gas exploration and production activities of equity-accounted entities. Amounts relating to the management and ownership of crude oil and natural gas pipelines, LNG liquefaction and transportation operations as well as downstream activities of Rosneft are excluded. The amounts reported for equity-accounted entities exclude the corresponding amounts for their equity-accounted entities.

^c Decommissioning assets are included in capitalized costs at 31 December but are excluded from costs incurred for the year.

^d Includes exploration and appraisal drilling expenditures, which are capitalized within intangible assets, and geological and geophysical exploration costs, which are charged to income as incurred.

^e The amounts shown reflect BP's share of equity-accounted entities' costs incurred, and not the costs incurred by BP in acquiring an interest in equity-accounted entities.

^f Presented net of transportation costs and sales taxes.

^g Includes the results of BP's 30% interest in Aker BP ASA from 1 October 2016.

^h Includes interest and adjustment for non-controlling interests. Excludes inventory holding gains and losses.

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Oil and natural gas exploration and production activities – continued

| | \$ million 2015 | | | | | | | | | |
|---|-----------------|----------------|---------------|-----------------------|---------------|---------|--------|--------------|-------|---------|
| | Europe | | North America | | South America | Africa | Asia | Australasia | | Total |
| | UK | Rest of Europe | US | Rest of North America | | | Russia | Rest of Asia | | |
| Subsidiaries | | | | | | | | | | |
| Capitalized costs at 31 December^{a b} | | | | | | | | | | |
| Gross capitalized costs | | | | | | | | | | |
| Proved properties | 33,214 | 10,568 | 80,716 | 3,559 | 11,051 | 42,807 | — | 28,474 | 5,177 | 215,566 |
| Unproved properties | 437 | 168 | 5,602 | 2,377 | 2,964 | 4,635 | — | 2,740 | 933 | 19,856 |
| | 33,651 | 10,736 | 86,318 | 5,936 | 14,015 | 47,442 | — | 31,214 | 6,110 | 235,422 |
| Accumulated depreciation | 21,447 | 7,172 | 43,290 | 191 | 6,251 | 29,406 | — | 15,967 | 2,677 | 126,401 |
| Net capitalized costs | 12,204 | 3,564 | 43,028 | 5,745 | 7,764 | 18,036 | — | 15,247 | 3,433 | 109,021 |
| Costs incurred for the year ended 31 December^{a b} | | | | | | | | | | |
| Acquisition of properties | | | | | | | | | | |
| Proved | 17 | — | 131 | — | — | 259 | — | — | — | 407 |
| Unproved | — | — | 56 | — | (118) | 8 | — | — | — | (54) |
| | 17 | — | 187 | — | (118) | 267 | — | — | — | 353 |
| Exploration and appraisal costs ^c | 178 | 11 | 651 | 75 | 114 | 533 | 5 | 102 | 125 | 1,794 |
| Development | 1,784 | 73 | 3,662 | 324 | 1,299 | 2,749 | — | 3,439 | 128 | 13,458 |
| Total costs | 1,979 | 84 | 4,500 | 399 | 1,295 | 3,549 | 5 | 3,541 | 253 | 15,605 |
| Results of operations for the year ended 31 December^a | | | | | | | | | | |
| Sales and other operating revenues^d | | | | | | | | | | |
| Third parties | 496 | 209 | 651 | 14 | 1,594 | 1,829 | — | 800 | 1,450 | 7,043 |
| Sales between businesses | 1,149 | 718 | 7,427 | 2 | 33 | 4,005 | — | 4,028 | 340 | 17,702 |
| | 1,645 | 927 | 8,078 | 16 | 1,627 | 5,834 | — | 4,828 | 1,790 | 24,745 |
| Exploration expenditure | 115 | 8 | 960 | 108 | 51 | 1,001 | 5 | 53 | 52 | 2,353 |
| Production costs | 879 | 313 | 2,777 | 77 | 703 | 1,521 | — | 1,083 | 166 | 7,519 |
| Production taxes | (273) | — | 215 | — | 214 | — | — | 834 | 46 | 1,036 |
| Other costs (income) ^e | (795) | 92 | 2,460 | 48 | 140 | 358 | 27 | 76 | 215 | 2,621 |
| Depreciation, depletion and amortization | 949 | 544 | 3,671 | 13 | 673 | 3,412 | — | 2,420 | 322 | 12,004 |
| Net impairments and (gains) losses on sale of businesses and fixed assets | (390) | 17 | 340 | — | 101 | 846 | — | 105 | 140 | 1,159 |
| | 485 | 974 | 10,423 | 246 | 1,882 | 7,138 | 32 | 4,571 | 941 | 26,692 |
| Profit (loss) before taxation ^f | 1,160 | (47) | (2,345) | (230) | (255) | (1,304) | (32) | 257 | 849 | (1,947) |
| Allocable taxes ^g | (930) | 159 | (857) | (5) | (28) | 694 | (5) | (66) | 472 | (566) |
| Results of operations | 2,090 | (206) | (1,488) | (225) | (227) | (1,998) | (27) | 323 | 377 | (1,381) |
| Upstream and Rosneft segments replacement cost profit (loss) before interest and tax | | | | | | | | | | |
| | 1,160 | (47) | (2,345) | (230) | (255) | (1,304) | (32) | 257 | 849 | (1,947) |

Exploration and production activities – subsidiaries (as above)

| | | | | | | | | | | | | | |
|--|-------|-----|--------|----|------|-----|------|--------|-------|-------|-----|-------|-----|
| Midstream and other activities – subsidiaries ^h | 401 | 110 | 43 | 10 | 211 | (39 |) | (16 |) | 67 | 14 | 801 | |
| Equity-accounted entities ⁱ | — | (7 |) | 19 | — | 370 | (552 |) | 1,326 | 363 | — | 1,519 | |
| Total replacement cost profit (loss) before interest and tax | 1,561 | 56 | (2,283 |) | (220 |) | 326 | (1,895 |) | 1,278 | 687 | 863 | 373 |

^a These tables contain information relating to oil and natural gas exploration and production activities of subsidiaries, which includes our share of oil and natural gas exploration and production activities of joint operations. They do not include any costs relating to the Gulf of Mexico oil spill. Amounts relating to the management and ownership of crude oil and natural gas pipelines, LNG liquefaction and transportation operations are excluded. In addition, our midstream activities of marketing and trading of natural gas, power and NGLs in the US, Canada, UK, Asia and Europe are excluded. The most significant midstream pipeline interests include the Trans-Alaska Pipeline System, the Forties Pipeline System, the Central Area Transmission System pipeline, the South Caucasus Pipeline and the Baku-Tbilisi-Ceyhan pipeline. Major LNG activities are located in Trinidad, Indonesia, Australia and Angola.

^b Decommissioning assets are included in capitalized costs at 31 December but are excluded from costs incurred for the year.

^c Includes exploration and appraisal drilling expenditures, which are capitalized within intangible assets, and geological and geophysical exploration costs, which are charged to income as incurred.

^d Presented net of transportation costs, purchases and sales taxes.

^e Includes property taxes, other government take and the fair value gain on embedded derivatives of \$120 million. The UK region includes a \$832-million gain which is offset by corresponding charges primarily in the US region, relating to the group self-insurance programme.

^f Excludes the unwinding of the discount on provisions and payables amounting to \$164 million which is included in finance costs in the group income statement.

^g UK region includes the one-off deferred tax impact of the enactment of legislation to reduce the UK supplementary charge tax rate applicable to profits arising in the North Sea from 32% to 20%.

^h Midstream and other activities excludes inventory holding gains and losses.

ⁱ BP's share of the profits of equity-accounted entities are included after interest and tax reported by those entities.

Oil and natural gas exploration and production activities – continued

| | | | | | | | | \$ million 2015 | | |
|---|--------|-------------------|-----------------------------------|--------|---------------------|-----------------|-----------|-----------------------|---|--------|
| | Europe | North America | South America | Africa | Asia | | Australia | Total | | |
| | UK | Rest of Europe | Rest of US North America | | Russia ^a | Rest of Asia | | | | |
| Equity-accounted entities (BP share) | | | | | | | | | | |
| Capitalized costs at 31 December ^{b c} | | | | | | | | | | |
| Gross capitalized costs | | | | | | | | | | |
| Proved properties | — | — | — | — | 9,824 | — | 12,728 | 3,486 | — | 26,038 |
| Unproved properties | — | — | — | — | — | — | 437 | 26 | — | 463 |
| | — | — | — | — | 9,824 | — | 13,165 | 3,512 | — | 26,501 |
| Accumulated depreciation | — | — | — | — | 4,117 | — | 2,788 | 3,458 | — | 10,363 |
| Net capitalized costs | — | — | — | — | 5,707 | — | 10,377 | 54 | — | 16,138 |
| Costs incurred for the year ended 31 December ^{b d e} | | | | | | | | | | |
| Acquisition of properties ^c | | | | | | | | | | |
| Proved | — | — | — | — | — | — | 16 | — | — | 16 |
| Unproved | — | — | — | — | — | — | 26 | — | — | 26 |
| | — | — | — | — | — | — | 42 | — | — | 42 |
| Exploration and appraisal costs ^d | — | — | — | — | 8 | — | 123 | 1 | — | 132 |
| Development | — | — | — | — | 1,128 | — | 1,702 | 443 | — | 3,273 |
| Total costs | — | — | — | — | 1,136 | — | 1,867 | 444 | — | 3,447 |
| Results of operations for the year ended 31 December ^b | | | | | | | | | | |
| Sales and other operating revenues ^f | | | | | | | | | | |
| Third parties | — | — | — | — | 2,060 | — | — | 1,022 | — | 3,082 |
| Sales between businesses | — | — | — | — | — | — | 8,592 | 19 | — | 8,611 |
| | — | — | — | — | 2,060 | — | 8,592 | 1,041 | — | 11,693 |
| Exploration expenditure | — | — | — | — | 3 | — | 52 | — | — | 55 |
| Production costs | — | — | — | — | 647 | — | 1,083 | 168 | — | 1,898 |
| Production taxes | — | — | — | — | 425 | — | 3,911 | 388 | — | 4,724 |
| Other costs (income) | — | — | — | — | (381) | — | 284 | — | — | (97) |
| Depreciation, depletion and amortization | — | — | — | — | 465 | — | 992 | 484 | — | 1,941 |
| Net impairments and losses on sale of businesses and fixed assets | — | — | — | — | 80 | — | — | 35 | — | 115 |
| | — | — | — | — | 1,239 | — | 6,322 | 1,075 | — | 8,636 |
| Profit (loss) before taxation | — | — | — | — | 821 | — | 2,270 | (34) | — | 3,057 |
| Allocable taxes | — | — | — | — | 504 | — | 449 | 1 | — | 954 |
| Results of operations | — | — | — | — | 317 | — | 1,821 | (35) | — | 2,103 |
| Upstream and Rosneft segments replacement cost profit (loss) before interest and tax from equity-accounted entities | | | | | | | | | | |
| Exploration and production activities – equity-accounted entities after tax (as above) | — | — | — | — | 317 | — | 1,821 | (35) | — | 2,103 |
| Midstream and other activities after tax ^g | — | (7) | 19 | — | 53 | (552) | (495) | 398 | — | (584) |
| | — | (7) | 19 | — | 370 | (552) | 1,326 | 363 | — | 1,519 |

Total replacement cost profit (loss) after interest and tax

^a Amounts reported for Russia in this table include BP's share of Rosneft's worldwide activities, including insignificant amounts outside Russia.

^b These tables contain information relating to oil and natural gas exploration and production activities of equity-accounted entities. Amounts relating to the management and ownership of crude oil and natural gas pipelines, LNG liquefaction and transportation operations as well as downstream activities of Rosneft are excluded. The amounts reported for equity-accounted entities exclude the corresponding amounts for their equity-accounted entities.

^c Decommissioning assets are included in capitalized costs at 31 December but are excluded from costs incurred for the year.

^d Includes exploration and appraisal drilling expenditures, which are capitalized within intangible assets, and geological and geophysical exploration costs, which are charged to income as incurred.

^e The amounts shown reflect BP's share of equity-accounted entities' costs incurred, and not the costs incurred by BP in acquiring an interest in equity-accounted entities.

^f Presented net of transportation costs and sales taxes.

^g Includes interest and adjustment for non-controlling interests. Excludes inventory holding gains and losses.

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Movements in estimated net proved reserves

| Crude oil ^{a b} | million barrels 2017 | | | | | | | | | |
|--|-------------------------|----------------|-----------------|-----------------------|---------------|--------|--------|--------------|--------|-------|
| | Europe | | North America | | South America | Africa | Asia | Australia | Russia | |
| | UK | Rest of Europe | US ^c | Rest of North America | | | Russia | Rest of Asia | | |
| Subsidiaries | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 155 | — | 826 | 42 | 9 | 317 | — | 1,107 | 32 | 2,487 |
| Undeveloped | 274 | — | 497 | 209 | 11 | 42 | — | 245 | 14 | 1,291 |
| | 429 | — | 1,322 | 251 | 20 | 358 | — | 1,352 | 46 | 3,778 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | 15 | — | 208 | 5 | 1 | 35 | — | 407 | 2 | 673 |
| Improved recovery | — | — | 12 | — | — | 2 | — | — | — | 14 |
| Purchases of reserves-in-place | 3 | — | 1 | — | — | 1 | — | — | — | 5 |
| Discoveries and extensions | — | — | 12 | — | — | — | — | 42 | — | 53 |
| Production ^d | (29) | — | (131) | (7) | (5) | (88) | — | (119) | (6) | (384) |
| Sales of reserves-in-place | (9) | — | — | — | — | — | — | — | — | (9) |
| | (20) | — | 101 | (2) | (4) | (50) | — | 330 | (4) | 351 |
| At 31 December ^e | | | | | | | | | | |
| Developed | 245 | — | 932 | 54 | 10 | 281 | — | 1,040 | 31 | 2,592 |
| Undeveloped | 164 | — | 492 | 195 | 6 | 28 | — | 642 | 11 | 1,537 |
| | 409 | — | 1,423 | 248 | 16 | 309 | — | 1,682 | 42 | 4,129 |
| Equity-accounted entities (BP share)^f | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | — | 45 | — | — | 321 | 1 | 3,162 | 43 | — | 3,573 |
| Undeveloped | — | 69 | — | — | 325 | — | 2,134 | 1 | — | 2,529 |
| | — | 114 | — | — | 646 | 1 | 5,296 | 44 | — | 6,101 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | — | 2 | — | — | 1 | — | 102 | (1) | — | 104 |
| Improved recovery | — | 11 | — | — | 4 | — | — | — | — | 16 |
| Purchases of reserves-in-place | — | 34 | — | — | — | — | 37 | — | — | 71 |
| Discoveries and extensions | — | 1 | — | — | 22 | — | 264 | — | — | 288 |
| Production | — | (11) | — | — | (28) | — | (325) | (36) | — | (401) |
| Sales of reserves-in-place | — | (5) | — | — | (98) | — | — | — | — | (103) |
| | — | 31 | — | — | (98) | — | 78 | (37) | — | (25) |
| At 31 December ^g | | | | | | | | | | |
| Developed | — | 56 | — | — | 285 | 1 | 3,124 | 6 | — | 3,473 |
| Undeveloped | — | 89 | — | — | 263 | — | 2,251 | — | — | 2,603 |
| | — | 145 | — | — | 548 | 1 | 5,374 | 6 | — | 6,076 |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 155 | 45 | 826 | 42 | 330 | 318 | 3,162 | 1,150 | 32 | 6,060 |
| Undeveloped | 274 | 69 | 497 | 209 | 336 | 42 | 2,134 | 246 | 14 | 3,819 |
| | 429 | 114 | 1,322 | 251 | 666 | 360 | 5,296 | 1,395 | 46 | 9,879 |
| At 31 December | | | | | | | | | | |
| Developed | 245 | 56 | 932 | 54 | 295 | 282 | 3,124 | 1,047 | 31 | 6,064 |

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| | | | | | | | | | | |
|-------------|-----|-----|-------|-----|-----|-----|-------|-------|----|--------|
| Undeveloped | 164 | 89 | 492 | 195 | 269 | 28 | 2,251 | 642 | 11 | 4,140 |
| | 409 | 145 | 1,423 | 249 | 564 | 310 | 5,374 | 1,688 | 42 | 10,205 |

^a Crude oil includes condensate and bitumen. Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c Proved reserves in the Prudhoe Bay field in Alaska include an estimated 9 million barrels upon which a net profits royalty will be payable over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^d Includes 5 million barrels of crude oil in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^e Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^f Includes 337 million barrels of crude oil in respect of the 6.31% non-controlling interest in Rosneft, including 32 mmbbl held through BP's equity-accounted interest in Taas-Yuryakh Neftegazodobycha.

^g Total proved crude oil reserves held as part of our equity interest in Rosneft is 5,402 million barrels, comprising less than 1 million barrels in Vietnam and Canada, 59 million barrels in Venezuela and 5,342 million barrels in Russia.

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Movements in estimated net proved reserves - continued

| Natural gas liquids ^{a b} | million barrels 2017 | | | | | | | | | |
|---|-------------------------|----------------|---------------|-----------------------|---------------|--------|--------|--------------|-------|------|
| | Europe | | North America | | South America | Africa | Asia | Australia | Total | |
| | UK | Rest of Europe | US | Rest of North America | | | Russia | Rest of Asia | | |
| Subsidiaries | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 13 | — | 226 | — | 5 | 13 | — | — | 9 | 266 |
| Undeveloped | 3 | — | 73 | — | 28 | 1 | — | — | 2 | 107 |
| | 16 | — | 299 | — | 33 | 14 | — | — | 11 | 373 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | 2 | — | (44) | — | — | 11 | — | — | (4) | (36) |
| Improved recovery | — | — | 15 | — | — | — | — | — | — | 15 |
| Purchases of reserves-in-place | — | — | — | — | — | — | — | — | — | — |
| Discoveries and extensions | — | — | 1 | — | — | — | — | — | — | 1 |
| Production ^c | (3) | — | (24) | — | (3) | (4) | — | — | (1) | (35) |
| Sales of reserves-in-place | (1) | — | — | — | — | — | — | — | — | (1) |
| | (2) | — | (52) | — | (3) | 7 | — | — | (5) | (55) |
| At 31 December ^d | | | | | | | | | | |
| Developed | 11 | — | 177 | — | 2 | 21 | — | — | 5 | 216 |
| Undeveloped | 3 | — | 69 | — | 28 | — | — | — | 1 | 102 |
| | 14 | — | 246 | — | 30 | 21 | — | — | 6 | 318 |
| Equity-accounted entities (BP share) ^e | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | — | 3 | — | — | — | 11 | 50 | — | — | 65 |
| Undeveloped | — | 2 | — | — | — | — | 15 | — | — | 17 |
| | — | 5 | — | — | — | 11 | 65 | — | — | 81 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | — | — | — | — | — | 1 | 68 | — | — | 69 |
| Improved recovery | — | 1 | — | — | — | — | — | — | — | 1 |
| Purchases of reserves-in-place | — | 2 | — | — | — | — | — | — | — | 2 |
| Discoveries and extensions | — | — | — | — | — | — | — | — | — | — |
| Production | — | (1) | — | — | — | (1) | (2) | — | — | (4) |
| Sales of reserves-in-place | — | — | — | — | — | — | — | — | — | — |
| | — | 3 | — | — | — | (1) | 66 | — | — | 68 |
| At 31 December ^f | | | | | | | | | | |
| Developed | — | 4 | — | — | — | 10 | 82 | — | — | 97 |
| Undeveloped | — | 4 | — | — | — | — | 49 | — | — | 53 |
| | — | 8 | — | — | — | 10 | 131 | — | — | 149 |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 13 | 3 | 226 | — | 5 | 24 | 50 | — | 9 | 331 |
| Undeveloped | 3 | 2 | 73 | — | 28 | 1 | 15 | — | 2 | 123 |
| | 16 | 5 | 299 | — | 33 | 25 | 65 | — | 11 | 454 |
| At 31 December | | | | | | | | | | |
| Developed | 11 | 4 | 177 | — | 2 | 31 | 82 | — | 5 | 313 |
| Undeveloped | 3 | 4 | 69 | — | 28 | — | 49 | — | 1 | 154 |

14 8 246 — 30 31 131 — 6 467

^a Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c Excludes NGLs from processing plants in which an interest is held of less than 1 thousand barrels per day for subsidiaries and 2 thousand barrels per day for equity-accounted entities.

^d Includes 9 million barrels of NGL in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^e Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^f Total proved NGL reserves held as part of our equity interest in Rosneft is 131 million barrels, comprising less than 1 million barrels in Venezuela, Vietnam and Canada, and 131 million barrels in Russia.

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Movements in estimated net proved reserves - continued

| Total liquids ^{a b} | million barrels | | | | | | | | | |
|---|-----------------|-----------------|-----------------------|-----|---------------|--------|--------------|-------|-----------|--------|
| | 2017 | | | | | | | | | |
| | Europe | | North America | | South America | Africa | Asia | | Australia | Total |
| UK | Rest of Europe | US ^c | Rest of North America | | | Russia | Rest of Asia | | | |
| Subsidiaries | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 168 | — | 1,051 | 42 | 14 | 330 | — | 1,107 | 42 | 2,753 |
| Undeveloped | 277 | — | 569 | 209 | 39 | 43 | — | 245 | 16 | 1,398 |
| | 445 | — | 1,621 | 251 | 53 | 372 | — | 1,352 | 57 | 4,151 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | 17 | — | 164 | 5 | 1 | 45 | — | 407 | (2) | 637 |
| Improved recovery | — | — | 27 | — | — | 2 | — | — | — | 29 |
| Purchases of reserves-in-place | 3 | — | 1 | — | — | 1 | — | — | — | 5 |
| Discoveries and extensions | — | — | 12 | — | — | — | — | 42 | — | 54 |
| Production ^d | (32) | — | (155) | (7) | (8) | (92) | — | (119) | (7) | (419) |
| Sales of reserves-in-place | (10) | — | — | — | — | — | — | — | — | (10) |
| | (22) | — | 49 | (2) | (7) | (43) | — | 330 | (9) | 296 |
| At 31 December ^e | | | | | | | | | | |
| Developed | 256 | — | 1,108 | 54 | 12 | 301 | — | 1,040 | 36 | 2,808 |
| Undeveloped | 167 | — | 561 | 195 | 34 | 28 | — | 642 | 12 | 1,639 |
| | 424 | — | 1,669 | 248 | 46 | 329 | — | 1,682 | 48 | 4,447 |
| Equity-accounted entities (BP share) ^f | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | — | 48 | — | — | 321 | 12 | 3,213 | 43 | — | 3,637 |
| Undeveloped | — | 71 | — | — | 325 | — | 2,148 | 1 | — | 2,545 |
| | — | 119 | — | — | 646 | 12 | 5,361 | 44 | — | 6,183 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | — | 2 | — | — | 1 | 1 | 170 | (1) | — | 174 |
| Improved recovery | — | 13 | — | — | 4 | — | — | — | — | 17 |
| Purchases of reserves-in-place | — | 36 | — | — | — | — | 37 | — | — | 72 |
| Discoveries and extensions | — | 1 | — | — | 22 | — | 264 | — | — | 288 |
| Production | — | (12) | — | — | (28) | (2) | (327) | (36) | — | (405) |
| Sales of reserves-in-place | — | (6) | — | — | (98) | — | — | — | — | (104) |
| | — | 34 | — | — | (98) | (1) | 144 | (37) | — | 43 |
| At 31 December ^{g h} | | | | | | | | | | |
| Developed | — | 60 | — | — | 285 | 11 | 3,206 | 6 | — | 3,569 |
| Undeveloped | — | 93 | — | — | 263 | — | 2,300 | — | — | 2,656 |
| | — | 153 | — | — | 548 | 12 | 5,505 | 6 | — | 6,225 |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 168 | 48 | 1,051 | 42 | 335 | 342 | 3,213 | 1,150 | 42 | 6,390 |
| Undeveloped | 277 | 71 | 569 | 209 | 364 | 43 | 2,148 | 246 | 16 | 3,943 |
| | 445 | 119 | 1,621 | 251 | 699 | 385 | 5,361 | 1,395 | 57 | 10,333 |
| At 31 December | | | | | | | | | | |
| Developed | 256 | 60 | 1,108 | 54 | 297 | 313 | 3,206 | 1,047 | 36 | 6,377 |
| Undeveloped | 167 | 93 | 561 | 195 | 297 | 28 | 2,300 | 642 | 12 | 4,295 |

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424 153 1,669 249 594 341 5,505 1,688 48 10,672

^a Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c Proved reserves in the Prudhoe Bay field in Alaska include an estimated 9 million barrels of oil equivalent upon which a net profits royalty will be payable, over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^d Excludes NGLs from processing plants in which an interest is held of less than 1 thousand barrels per day for subsidiaries and 2 thousand barrels per day for equity-accounted entities.

^e Also includes 14 million barrels in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^f Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^g Includes 338 million barrels in respect of the non-controlling interest in Rosneft, including 32 mmbbl held through BP's equity-accounted interest in Taas-Yuryakh Neftegazodobycha.

^h Total proved liquid reserves held as part of our equity interest in Rosneft is 5,533 million barrels, comprising less than 1 million barrels in Canada, 59 million barrels in Venezuela, less than 1 million barrels in Vietnam and 5,473 million barrels in Russia.

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Movements in estimated net proved reserves – continued

| Natural gas ^{a b} | billion cubic feet 2017 | | | | | | | | | | |
|--|----------------------------|----------------|---------------|-----------------------|---------------|--------|--------|--------------|-------|---------|---|
| | Europe | | North America | | South America | Africa | Asia | Australia | Total | | |
| | UK | Rest of Europe | US | Rest of North America | | | Russia | Rest of Asia | | | |
| Subsidiaries | | | | | | | | | | | |
| At 1 January | | | | | | | | | | | |
| Developed | 499 | — | 5,447 | — | 1,784 | 767 | — | 1,890 | 3,012 | 13,398 | |
| Undeveloped | 350 | — | 2,567 | — | 4,970 | 2,191 | — | 3,769 | 1,643 | 15,490 | |
| | 848 | — | 8,014 | — | 6,755 | 2,958 | — | 5,659 | 4,654 | 28,888 | |
| Changes attributable to | | | | | | | | | | | |
| Revisions of previous estimates | 50 | — | (38 |)3 | (677 |)(450 |)— | 258 | (129 |)(983 |) |
| Improved recovery | — | — | 1,002 | — | — | 1 | — | 6 | — | 1,009 | |
| Purchases of reserves-in-place | 25 | — | — | — | — | 527 | — | — | — | 552 | |
| Discoveries and extensions | — | — | 10 | — | 829 | 14 | — | 1,229 | — | 2,082 | |
| Production ^c | (77 |)— | (664 |)(3 |)(714 |)(380 |)— | (152 |)(291 |)(2,281 |) |
| Sales of reserves-in-place | (4 |)— | — | — | — | — | — | — | — | (4 |) |
| | (5 |)— | 309 | — | (562 |)(288 |)— | 1,342 | (420 |)376 | |
| At 31 December ^d | | | | | | | | | | | |
| Developed | 523 | — | 5,238 | (1 |)2,862 | 1,159 | — | 2,755 | 2,730 | 15,266 | |
| Undeveloped | 320 | — | 3,086 | — | 3,330 | 1,510 | — | 4,245 | 1,505 | 13,997 | |
| | 843 | — | 8,323 | (1 |)6,193 | 2,670 | — | 7,000 | 4,235 | 29,263 | |
| Equity-accounted entities (BP share)^e | | | | | | | | | | | |
| At 1 January | | | | | | | | | | | |
| Developed | — | 89 | — | — | 1,546 | 412 | 5,544 | 26 | — | 7,617 | |
| Undeveloped | — | 21 | — | — | 534 | — | 6,304 | 4 | — | 6,863 | |
| | — | 110 | — | 1 | 2,080 | 412 | 11,847 | 30 | — | 14,480 | |
| Changes attributable to | | | | | | | | | | | |
| Revisions of previous estimates | — | 19 | — | — | 47 | 5 | 1,556 | (2 |)— | 1,625 | |
| Improved recovery | — | 37 | — | — | 55 | — | — | — | — | 92 | |
| Purchases of reserves-in-place | — | 39 | — | — | — | 237 | 10 | — | — | 286 | |
| Discoveries and extensions | — | 1 | — | — | 67 | — | 324 | — | — | 392 | |
| Production ^c | — | (19 |)— | — | (178 |)(32 |)(488 |)(8 |)— | (726 |) |
| Sales of reserves-in-place | — | (6 |)— | — | (347 |)— | — | — | — | (353 |) |
| | — | 70 | — | — | (356 |)210 | 1,403 | (10 |)— | 1,316 | |
| At 31 December ^{f g} | | | | | | | | | | | |
| Developed | — | 112 | — | — | 1,274 | 476 | 6,077 | 17 | — | 7,955 | |
| Undeveloped | — | 69 | — | — | 450 | 146 | 7,173 | 3 | — | 7,841 | |
| | — | 180 | — | — | 1,724 | 622 | 13,250 | 20 | — | 15,796 | |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | | |
| At 1 January | | | | | | | | | | | |
| Developed | 499 | 89 | 5,447 | — | 3,330 | 1,179 | 5,544 | 1,916 | 3,012 | 21,015 | |
| Undeveloped | 350 | 21 | 2,567 | — | 5,505 | 2,191 | 6,304 | 3,772 | 1,643 | 22,353 | |
| | 848 | 110 | 8,014 | — | 8,835 | 3,370 | 11,847 | 5,688 | 4,654 | 43,368 | |
| At 31 December | | | | | | | | | | | |
| Developed | 523 | 112 | 5,238 | — | 4,136 | 1,635 | 6,077 | 2,771 | 2,730 | 23,221 | |

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| | | | | | | | | | | |
|-------------|-----|-----|-------|---|-------|-------|--------|-------|-------|--------|
| Undeveloped | 320 | 69 | 3,086 | — | 3,781 | 1,656 | 7,173 | 4,249 | 1,505 | 21,838 |
| | 843 | 180 | 8,323 | — | 7,917 | 3,291 | 13,250 | 7,020 | 4,235 | 45,060 |

^a Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c Includes 180 billion cubic feet of natural gas consumed in operations, 131 billion cubic feet in subsidiaries, 49 billion cubic feet in equity-accounted entities.

^d Includes 1,860 billion cubic feet of natural gas in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^e Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^f Includes 306 billion cubic feet of natural gas in respect of the 2.30% non-controlling interest in Rosneft including 12 billion cubic feet held through BP's equity-accounted interest in Taas-Yuryakh Neftegazodobycha.

^g Total proved gas reserves held as part of our equity interest in Rosneft is 13,522 billion cubic feet, comprising 0 billion cubic feet in Canada, 28 billion cubic feet in Venezuela, 19 billion cubic feet in Vietnam, 237 billion cubic feet in Egypt and 13,237 billion cubic feet in Russia.

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Movements in estimated net proved reserves – continued

| Total hydrocarbons ^{a b} | million barrels of oil equivalent ^c | | | | | | | | | |
|--|--|----------------|-----------------|-----------------------|---------------|--------|--------|--------------|------|--------|
| | Europe | | North America | | South America | Africa | Asia | Australasia | | Total |
| | UK | Rest of Europe | US ^d | Rest of North America | | | Russia | Rest of Asia | | |
| Subsidiaries | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 254 | — | 1,990 | 42 | 321 | 462 | — | 1,433 | 561 | 5,063 |
| Undeveloped | 338 | — | 1,012 | 209 | 896 | 420 | — | 895 | 299 | 4,068 |
| | 592 | — | 3,002 | 251 | 1,217 | 882 | — | 2,327 | 860 | 9,131 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | 25 | — | 157 | 5 | (116) | (32) | — | 451 | (24) | 467 |
| Improved recovery | — | — | 200 | — | — | 2 | — | 1 | — | 203 |
| Purchases of reserves-in-place | 8 | — | 1 | — | — | 92 | — | — | — | 100 |
| Discoveries and extensions | — | — | 14 | — | 143 | 3 | — | 254 | — | 413 |
| Production ^{e f} | (45) | — | (270) | (8) | (131) | (157) | — | (145) | (57) | (812) |
| Sales of reserves-in-place | (11) | — | — | — | — | — | — | — | — | (11) |
| | (23) | — | 102 | (2) | (104) | (93) | — | 562 | (81) | 361 |
| At 31 December^g | | | | | | | | | | |
| Developed | 347 | — | 2,011 | 54 | 505 | 501 | — | 1,515 | 507 | 5,440 |
| Undeveloped | 222 | — | 1,093 | 195 | 608 | 288 | — | 1,374 | 272 | 4,052 |
| | 569 | — | 3,104 | 248 | 1,114 | 790 | — | 2,889 | 779 | 9,492 |
| Equity-accounted entities (BP share)^h | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | — | 63 | — | — | 588 | 83 | 4,168 | 47 | — | 4,951 |
| Undeveloped | — | 75 | — | — | 417 | — | 3,235 | 1 | — | 3,729 |
| | — | 138 | — | — | 1,005 | 83 | 7,404 | 49 | — | 8,679 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | — | 5 | — | — | 9 | 2 | 439 | (1) | — | 454 |
| Improved recovery | — | 19 | — | — | 14 | — | — | — | — | 33 |
| Purchases of reserves-in-place | — | 42 | — | — | — | 41 | 38 | — | — | 122 |
| Discoveries and extensions | — | 1 | — | — | 34 | — | 320 | — | — | 355 |
| Production ^e | — | (15) | — | — | (58) | (7) | (411) | (38) | — | (530) |
| Sales of reserves-in-place | — | (7) | — | — | (158) | — | — | — | — | (165) |
| | — | 46 | — | — | (159) | 35 | 386 | (39) | — | 269 |
| At 31 December^{i j} | | | | | | | | | | |
| Developed | — | 80 | — | — | 505 | 93 | 4,254 | 9 | — | 4,941 |
| Undeveloped | — | 105 | — | — | 341 | 25 | 3,536 | 1 | — | 4,008 |
| | — | 184 | — | — | 846 | 119 | 7,790 | 10 | — | 8,949 |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 254 | 63 | 1,990 | 42 | 909 | 545 | 4,168 | 1,480 | 561 | 10,014 |
| Undeveloped | 338 | 75 | 1,012 | 209 | 1,313 | 420 | 3,235 | 896 | 299 | 7,797 |
| | 592 | 138 | 3,002 | 251 | 2,222 | 966 | 7,404 | 2,376 | 860 | 17,810 |

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At 31 December

| | | | | | | | | | | |
|-------------|-----|-----|-------|-----|-------|-----|-------|-------|-----|--------|
| Developed | 347 | 80 | 2,011 | 54 | 1,010 | 595 | 4,254 | 1,524 | 507 | 10,381 |
| Undeveloped | 222 | 105 | 1,093 | 195 | 949 | 314 | 3,536 | 1,374 | 272 | 8,060 |
| | 569 | 184 | 3,104 | 249 | 1,959 | 908 | 7,790 | 2,899 | 779 | 18,441 |

^a Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c 5.8 billion cubic feet of natural gas = 1 million barrels of oil equivalent.

^d Proved reserves in the Prudhoe Bay field in Alaska include an estimated 9 million barrels of oil equivalent upon which a net profits royalty will be payable, over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^e Excludes NGLs from processing plants in which an interest is held of less than 1 thousand barrels per day for subsidiaries and 2 thousand barrels per day for equity-accounted entities.

^f Includes 31 million barrels of oil equivalent of natural gas consumed in operations, 23 million barrels of oil equivalent in subsidiaries, 8 million barrels of oil equivalent in equity-accounted entities.

^g Includes 335 million barrels of oil equivalent in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^h Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

ⁱ Includes 391 million barrels of oil equivalent in respect of the non-controlling interest in Rosneft, including 34 mmboe held through BP's equity-accounted interest in Taas-Yuryakh Neftegazodobycha.

^j Total proved reserves held as part of our equity interest in Rosneft is 7,864 million barrels of oil equivalent, comprising less than 1 million barrels of oil equivalent in Canada, 64 million barrels of oil equivalent in Venezuela, 3 million barrels of oil equivalent in Vietnam, 41 million barrels of oil equivalent in Egypt and 7,755 million barrels of oil equivalent in Russia.

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Movements in estimated net proved reserves – continued

| Crude oil ^{a b} | million barrels 2016 | | | | | | | | | |
|--|-------------------------|----------------|-----------------|-----------------------|---------------|--------|--------|---------------------------|-------|-------|
| | Europe | | North America | | South America | Africa | Asia | Australia | Total | |
| | UK | Rest of Europe | US ^c | Rest of North America | | | Russia | Rest of Asia ^d | | |
| Subsidiaries | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 141 | 86 | 890 | 46 | 8 | 340 | — | 598 | 35 | 2,146 |
| Undeveloped | 298 | 19 | 577 | 205 | 18 | 89 | — | 192 | 16 | 1,414 |
| | 440 | 106 | 1,467 | 252 | 26 | 429 | — | 790 | 51 | 3,560 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates ^d | 13 | — | (30) | — | (2) | 22 | — | 543 | 2 | 548 |
| Improved recovery | — | — | 1 | — | — | 3 | — | 70 | — | 74 |
| Purchases of reserves-in-place | 3 | — | 3 | — | — | — | — | 25 | 1 | 32 |
| Discoveries and extensions | 2 | — | — | 4 | — | — | — | — | — | 6 |
| Production ^e | (29) | (9) | (119) | (5) | (4) | (96) | — | (75) | (6) | (341) |
| Sales of reserves-in-place | — | (97) | (1) | — | — | — | — | (1) | (2) | (102) |
| | (11) | (106) | (145) | (1) | (6) | (71) | — | 562 | (5) | 218 |
| At 31 December ^f | | | | | | | | | | |
| Developed | 155 | — | 826 | 42 | 9 | 317 | — | 1,107 | 32 | 2,487 |
| Undeveloped | 274 | — | 497 | 209 | 11 | 42 | — | 245 | 14 | 1,291 |
| | 429 | — | 1,322 | 251 | 20 | 358 | — | 1,352 | 46 | 3,778 |
| Equity-accounted entities (BP share)^g | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | — | — | — | — | 311 | 2 | 2,844 | 68 | — | 3,225 |
| Undeveloped | — | — | — | — | 311 | — | 1,981 | — | — | 2,292 |
| | — | — | — | — | 622 | 2 | 4,825 | 68 | — | 5,517 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | — | — | — | — | (2) | — | 33 | 13 | — | 45 |
| Improved recovery | — | — | — | — | 1 | — | 4 | — | — | 5 |
| Purchases of reserves-in-place | — | 116 | — | — | 36 | — | 456 | — | — | 609 |
| Discoveries and extensions | — | — | — | — | 16 | — | 285 | — | — | 301 |
| Production | — | (3) | — | — | (28) | — | (305) | (37) | — | (373) |
| Sales of reserves-in-place | — | — | — | — | — | — | (2) | (1) | — | (2) |
| | — | 114 | — | — | 24 | — | 471 | (25) | — | 584 |
| At 31 December ^h | | | | | | | | | | |
| Developed | — | 45 | — | — | 321 | 1 | 3,162 | 43 | — | 3,573 |
| Undeveloped | — | 69 | — | — | 325 | — | 2,134 | 1 | — | 2,529 |
| | — | 114 | — | — | 646 | 1 | 5,296 | 44 | — | 6,101 |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 141 | 86 | 890 | 47 | 319 | 342 | 2,844 | 666 | 35 | 5,371 |
| Undeveloped | 298 | 19 | 577 | 205 | 329 | 89 | 1,981 | 192 | 16 | 3,707 |
| | 440 | 106 | 1,467 | 252 | 648 | 431 | 4,825 | 858 | 51 | 9,078 |
| At 31 December | | | | | | | | | | |
| Developed | 155 | 45 | 826 | 42 | 330 | 318 | 3,162 | 1,150 | 32 | 6,060 |
| Undeveloped | 274 | 69 | 497 | 209 | 336 | 42 | 2,134 | 246 | 14 | 3,819 |

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429 114 1,322 251 666 360 5,296 1,395 46 9,879

^a Crude oil includes condensate and bitumen. Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c Proved reserves in the Prudhoe Bay field in Alaska include an estimated 9 million barrels upon which a net profits royalty will be payable over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^d Rest of Asia includes additions from Abu Dhabi ADCO concession.

^e Includes 6 million barrels of crude oil in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^f Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^g Includes 347 million barrels of crude oil in respect of the 6.58% non-controlling interest in Rosneft, including 28 mmbbl held through BP's equity-accounted interest in Taas-Yuryakh Neftegazodobycha.

^h Total proved crude oil reserves held as part of our equity interest in Rosneft is 5,330 million barrels, comprising less than 1 million barrels in Vietnam and Canada, 62 million barrels in Venezuela and 5,268 million barrels in Russia.

Movements in estimated net proved reserves – continued

| | million barrels 2016 | | | | | | | | | |
|--|-------------------------|----------------|---------------|-----------------------|---------------|--------|--------|--------------|-----|-------|
| | Europe | | North America | | South America | Africa | Asia | Australia | | Total |
| | UK | Rest of Europe | US | Rest of North America | | | Russia | Rest of Asia | | |
| Subsidiaries | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 5 | 11 | 269 | — | 7 | 5 | — | — | 9 | 308 |
| Undeveloped | 4 | 1 | 70 | — | 28 | 10 | — | — | 2 | 115 |
| | 10 | 12 | 339 | — | 35 | 15 | — | — | 12 | 422 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | 7 | — | (24) | — | — | 1 | — | — | — | (14) |
| Improved recovery | — | — | 3 | — | — | — | — | — | — | 3 |
| Purchases of reserves-in-place | 1 | — | 4 | — | — | — | — | — | — | 6 |
| Discoveries and extensions | — | — | — | — | — | — | — | — | — | — |
| Production ^c | (2) | (1) | (24) | — | (2) | (2) | — | — | (1) | (34) |
| Sales of reserves-in-place | — | (10) | — | — | — | — | — | — | — | (10) |
| | 7 | (12) | (40) | — | (2) | (1) | — | — | (1) | (49) |
| At 31 December ^d | | | | | | | | | | |
| Developed | 13 | — | 226 | — | 5 | 13 | — | — | 9 | 266 |
| Undeveloped | 3 | — | 73 | — | 28 | 1 | — | — | 2 | 107 |
| | 16 | — | 299 | — | 33 | 14 | — | — | 11 | 373 |
| Equity-accounted entities (BP share)^e | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | — | — | — | — | — | 13 | 32 | — | — | 45 |
| Undeveloped | — | — | — | — | — | — | 15 | — | — | 15 |
| | — | — | — | — | — | 13 | 47 | — | — | 60 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | — | — | — | — | — | (2) | 18 | — | — | 16 |
| Improved recovery | — | — | — | — | — | — | — | — | — | — |
| Purchases of reserves-in-place | — | 5 | — | — | — | — | — | — | — | 5 |
| Discoveries and extensions | — | — | — | — | — | — | — | — | — | — |
| Production | — | — | — | — | — | — | — | — | — | — |
| Sales of reserves-in-place | — | — | — | — | — | — | — | — | — | — |
| | — | 5 | — | — | — | (2) | 18 | — | — | 21 |
| At 31 December ^f | | | | | | | | | | |
| Developed | — | 3 | — | — | — | 11 | 50 | — | — | 65 |
| Undeveloped | — | 2 | — | — | — | — | 15 | — | — | 17 |
| | — | 5 | — | — | — | 11 | 65 | — | — | 81 |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 5 | 11 | 269 | — | 7 | 18 | 32 | — | 9 | 352 |
| Undeveloped | 4 | 1 | 70 | — | 28 | 10 | 15 | — | 2 | 130 |
| | 10 | 12 | 339 | — | 35 | 28 | 47 | — | 12 | 482 |
| At 31 December | | | | | | | | | | |
| Developed | 13 | 3 | 226 | — | 5 | 24 | 50 | — | 9 | 331 |

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| | | | | | | | | | | |
|-------------|----|---|-----|---|----|----|----|---|----|-----|
| Undeveloped | 3 | 2 | 73 | — | 28 | 1 | 15 | — | 2 | 123 |
| | 16 | 5 | 299 | — | 33 | 25 | 65 | — | 11 | 454 |

^a Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c Excludes NGLs from processing plants in which an interest is held of less than 1 thousand barrels per day for subsidiaries and 3 thousand barrels per day for equity-accounted entities.

^d Includes 10 million barrels of NGL in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^e Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^f Total proved NGL reserves held as part of our equity interest in Rosneft is 65 million barrels, comprising less than 1 million barrels in Venezuela, Vietnam and Canada, and 65 million barrels in Russia.

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Movements in estimated net proved reserves – continued
million barrels

| Total liquids ^{a b} | | | | | | | | | 2016 | |
|--|--------|----------------|-----------------|-----------------------|---------------|--------|--------|--------------|-------|-------|
| | Europe | | North America | | South America | Africa | Asia | Australia | Total | |
| | UK | Rest of Europe | US ^c | Rest of North America | | | Russia | Rest of Asia | | |
| Subsidiaries | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 147 | 98 | 1,159 | 46 | 15 | 346 | — | 598 | 45 | 2,453 |
| Undeveloped | 303 | 20 | 647 | 205 | 46 | 99 | — | 192 | 18 | 1,529 |
| | 449 | 117 | 1,806 | 252 | 61 | 444 | — | 790 | 63 | 3,982 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates ^d | 20 | — | (54) | — | (2) | 23 | — | 543 | 3 | 533 |
| Improved recovery | — | — | 5 | — | — | 3 | — | 70 | — | 78 |
| Purchases of reserves-in-place | 5 | — | 7 | — | — | — | — | 25 | 1 | 38 |
| Discoveries and extensions | 2 | — | — | 4 | — | — | — | — | — | 6 |
| Production ^e | (31) | (10) | (143) | (5) | (6) | (98) | — | (75) | (7) | (375) |
| Sales of reserves-in-place | — | (108) | (1) | — | — | — | — | (1) | (2) | (112) |
| | (4) | (117) | (185) | (1) | (8) | (72) | — | 562 | (5) | 168 |
| At 31 December ^f | | | | | | | | | | |
| Developed | 168 | — | 1,051 | 42 | 14 | 330 | — | 1,107 | 42 | 2,753 |
| Undeveloped | 277 | — | 569 | 209 | 39 | 43 | — | 245 | 16 | 1,398 |
| | 445 | — | 1,621 | 251 | 53 | 372 | — | 1,352 | 57 | 4,151 |
| Equity-accounted entities (BP share)^g | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | — | — | — | — | 311 | 14 | 2,876 | 68 | — | 3,270 |
| Undeveloped | — | — | — | — | 312 | — | 1,996 | — | — | 2,307 |
| | — | — | — | — | 622 | 14 | 4,872 | 68 | — | 5,577 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | — | — | — | — | (2) | (2) | 51 | 13 | — | 61 |
| Improved recovery | — | — | — | — | 1 | — | 4 | — | — | 5 |
| Purchases of reserves-in-place | — | 122 | — | — | 36 | — | 456 | — | — | 614 |
| Discoveries and extensions | — | — | — | — | 16 | — | 285 | — | — | 301 |
| Production | — | (3) | — | — | (28) | — | (305) | (37) | — | (374) |
| Sales of reserves-in-place | — | — | — | — | — | — | (2) | (1) | — | (2) |
| | — | 119 | — | — | 24 | (2) | 489 | (25) | — | 605 |
| At 31 December ^{h i} | | | | | | | | | | |
| Developed | — | 48 | — | — | 321 | 12 | 3,213 | 43 | — | 3,637 |
| Undeveloped | — | 71 | — | — | 325 | — | 2,148 | 1 | — | 2,545 |
| | — | 119 | — | — | 646 | 12 | 5,361 | 44 | — | 6,183 |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 147 | 98 | 1,159 | 47 | 326 | 360 | 2,876 | 666 | 45 | 5,723 |
| Undeveloped | 302 | 20 | 647 | 205 | 357 | 99 | 1,996 | 192 | 18 | 3,836 |
| | 449 | 117 | 1,806 | 252 | 684 | 459 | 4,872 | 858 | 63 | 9,560 |
| At 31 December | | | | | | | | | | |
| Developed | 168 | 48 | 1,051 | 42 | 335 | 342 | 3,213 | 1,150 | 42 | 6,390 |
| Undeveloped | 277 | 71 | 569 | 209 | 364 | 43 | 2,148 | 246 | 16 | 3,943 |

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445 119 1,621 251 699 385 5,361 1,395 57 10,333

^a Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c Proved reserves in the Prudhoe Bay field in Alaska include an estimated 9 million barrels of oil equivalent upon which a net profits royalty will be payable, over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^d Rest of Asia includes additions from Abu Dhabi ADCO concession.

^e Excludes NGLs from processing plants in which an interest is held of less than 1 thousand barrels per day for subsidiaries and 3 thousand barrels per day for equity-accounted entities.

^f Also includes 16 million barrels in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^g Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^h Includes 347 million barrels in respect of the non-controlling interest in Rosneft, including 28 mmbob held through BP's equity accounted interest in Taas-Yuryakh Neftegazodobycha.

ⁱ Total proved liquid reserves held as part of our equity interest in Rosneft is 5,395 million barrels, comprising less than 1 million barrels in Canada, 62 million barrels in Venezuela, less than 1 million barrels in Vietnam and 5,333 million barrels in Russia.

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Movements in estimated net proved reserves – continued

| Natural gas ^{a b} | billion cubic feet 2016 | | | | | | | | | |
|--|----------------------------|----------------|---------------|-----------------------|---------------|--------|--------|--------------|-------|---------|
| | Europe | | North America | | South America | Africa | Asia | Australasia | Total | |
| | UK | Rest of Europe | US | Rest of North America | | | Russia | Rest of Asia | | |
| Subsidiaries | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 348 | 274 | 6,257 | — | 2,071 | 847 | — | 1,803 | 3,408 | 15,009 |
| Undeveloped | 343 | 14 | 2,105 | — | 5,989 | 2,305 | — | 3,455 | 1,343 | 15,553 |
| | 691 | 288 | 8,363 | — | 8,060 | 3,152 | — | 5,257 | 4,751 | 30,563 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | 133 | — | (231) | 3 | (1,042) | (19) | — | 548 | 396 | (211) |
| Improved recovery | — | — | 469 | — | 42 | 1 | — | 22 | — | 534 |
| Purchases of reserves-in-place | 95 | — | 91 | — | — | — | — | — | 252 | 438 |
| Discoveries and extensions | — | — | 1 | — | 355 | 43 | — | — | — | 399 |
| Production ^c | (71) | (33) | (676) | (4) | (624) | (219) | — | (152) | (306) | (2,085) |
| Sales of reserves-in-place | — | (256) | (2) | — | (37) | — | — | (17) | (439) | (750) |
| | 158 | (288) | (348) | — | (1,306) | (194) | — | 401 | (97) | (1,675) |
| At 31 December^d | | | | | | | | | | |
| Developed | 499 | — | 5,447 | — | 1,784 | 767 | — | 1,890 | 3,012 | 13,398 |
| Undeveloped | 350 | — | 2,567 | — | 4,970 | 2,191 | — | 3,769 | 1,643 | 15,490 |
| | 848 | — | 8,014 | — | 6,755 | 2,958 | — | 5,659 | 4,654 | 28,888 |
| Equity-accounted entities (BP share)^e | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | — | — | — | 1 | 1,463 | 386 | 4,962 | 44 | — | 6,856 |
| Undeveloped | — | — | — | — | 598 | — | 6,176 | 4 | — | 6,778 |
| | — | — | — | 1 | 2,061 | 386 | 11,139 | 48 | — | 13,634 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | — | — | — | — | 62 | 34 | 736 | 5 | — | 836 |
| Improved recovery | — | — | — | — | 1 | — | 10 | — | — | 11 |
| Purchases of reserves-in-place | — | 115 | — | — | 19 | — | 81 | — | — | 216 |
| Discoveries and extensions | — | — | — | — | 128 | — | 343 | — | — | 471 |
| Production ^c | — | (4) | — | — | (190) | (8) | (461) | (15) | — | (680) |
| Sales of reserves-in-place | — | — | — | — | — | — | (1) | (8) | — | (8) |
| | — | 110 | — | — | 20 | 26 | 709 | (18) | — | 846 |
| At 31 December^{f g} | | | | | | | | | | |
| Developed | — | 89 | — | — | 1,546 | 412 | 5,544 | 26 | — | 7,617 |
| Undeveloped | — | 21 | — | — | 534 | — | 6,304 | 4 | — | 6,863 |
| | — | 110 | — | 1 | 2,080 | 412 | 11,847 | 30 | — | 14,480 |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 348 | 274 | 6,257 | 1 | 3,534 | 1,233 | 4,962 | 1,847 | 3,408 | 21,865 |
| Undeveloped | 343 | 14 | 2,105 | — | 6,587 | 2,305 | 6,176 | 3,459 | 1,343 | 22,331 |
| | 691 | 288 | 8,363 | 1 | 10,121 | 3,538 | 11,139 | 5,305 | 4,751 | 44,197 |
| At 31 December | | | | | | | | | | |

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| | | | | | | | | | | |
|-------------|-----|-----|-------|---|-------|-------|--------|-------|-------|--------|
| Developed | 499 | 89 | 5,447 | — | 3,330 | 1,179 | 5,544 | 1,916 | 3,012 | 21,015 |
| Undeveloped | 350 | 21 | 2,567 | — | 5,505 | 2,191 | 6,304 | 3,772 | 1,643 | 22,353 |
| | 848 | 110 | 8,014 | — | 8,835 | 3,370 | 11,847 | 5,688 | 4,654 | 43,368 |

^a Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c Includes 176 billion cubic feet of natural gas consumed in operations, 145 billion cubic feet in subsidiaries, 31 billion cubic feet in equity-accounted entities.

^d Includes 2,026 billion cubic feet of natural gas in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^e Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^f Includes 300 billion cubic feet of natural gas in respect of the 2.53% non-controlling interest in Rosneft including 3 billion cubic feet held through BP's equity accounted interest in Taas-Yuryakh Neftegazodobycha.

^g Total proved gas reserves held as part of our equity interest in Rosneft is 11,900 billion cubic feet, comprising 1 billion cubic feet in Canada, 33 billion cubic feet in Venezuela, 23 billion cubic feet in Vietnam and 11,843 billion cubic feet in Russia.

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Movements in estimated net proved reserves – continued

| Total hydrocarbons ^{a b} | million barrels of oil equivalent ^c | | | | | | | | | | |
|---|--|----------------|-----------------|-----------------------|---------------|-------|-------------|--------------|-----------|--------|-------|
| | Europe | | North America | | South America | | Africa Asia | | Australia | | Total |
| | UK | Rest of Europe | US ^d | Rest of North America | | | Russia | Rest of Asia | | | |
| Subsidiaries | | | | | | | | | | | |
| At 1 January | | | | | | | | | | | |
| Developed | 207 | 145 | 2,238 | 46 | 373 | 492 | — | 909 | 632 | 5,041 | |
| Undeveloped | 362 | 22 | 1,010 | 205 | 1,078 | 496 | — | 788 | 250 | 4,211 | |
| | 568 | 167 | 3,248 | 252 | 1,451 | 988 | — | 1,696 | 882 | 9,252 | |
| Changes attributable to | | | | | | | | | | | |
| Revisions of previous estimates ^e | 43 | — | (94) |)1 | (181) |)20 | — | 637 | 71 | 497 | |
| Improved recovery | — | — | 86 | — | 7 | 3 | — | 74 | — | 170 | |
| Purchases of reserves-in-place | 21 | — | 23 | — | — | — | — | 25 | 44 | 113 | |
| Discoveries and extensions | 2 | — | — | 4 | 61 | 8 | — | — | — | 75 | |
| Production ^{f g} | (43) | (16) | (260) | (5) | (114) | (136) | — | (101) | (60) | (735) | |
| Sales of reserves-in-place | — | (152) | (1) | — | (7) | — | — | (4) | (78) | (241) | |
| | 23 | (167) | (245) | (1) | (233) | (105) | — | 631 | (22) | (121) | |
| At 31 December ^h | | | | | | | | | | | |
| Developed | 254 | — | 1,990 | 42 | 321 | 462 | — | 1,433 | 561 | 5,063 | |
| Undeveloped | 338 | — | 1,012 | 209 | 896 | 420 | — | 895 | 299 | 4,068 | |
| | 592 | — | 3,002 | 251 | 1,217 | 882 | — | 2,327 | 860 | 9,131 | |
| Equity-accounted entities (BP share) ⁱ | | | | | | | | | | | |
| At 1 January | | | | | | | | | | | |
| Developed | — | — | — | — | 563 | 81 | 3,732 | 76 | — | 4,452 | |
| Undeveloped | — | — | — | — | 415 | — | 3,061 | 1 | — | 3,476 | |
| | — | — | — | — | 978 | 81 | 6,792 | 77 | — | 7,928 | |
| Changes attributable to | | | | | | | | | | | |
| Revisions of previous estimates | — | — | — | — | 9 | 4 | 178 | 14 | — | 205 | |
| Improved recovery | — | — | — | — | 1 | — | 6 | — | — | 7 | |
| Purchases of reserves-in-place | — | 142 | — | — | 39 | — | 470 | — | — | 652 | |
| Discoveries and extensions | — | — | — | — | 38 | — | 344 | — | — | 382 | |
| Production ^g | — | (3) | — | — | (61) | (2) | (385) | (40) | — | (491) | |
| Sales of reserves-in-place | — | — | — | — | — | — | (2) | (2) | — | (4) | |
| | — | 138 | — | — | 27 | 2 | 611 | (28) | — | 751 | |
| At 31 December ^{j k} | | | | | | | | | | | |
| Developed | — | 63 | — | — | 588 | 83 | 4,168 | 47 | — | 4,951 | |
| Undeveloped | — | 75 | — | — | 417 | — | 3,235 | 1 | — | 3,729 | |
| | — | 138 | — | — | 1,005 | 83 | 7,404 | 49 | — | 8,679 | |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | | |
| At 1 January | | | | | | | | | | | |
| Developed | 207 | 145 | 2,238 | 47 | 936 | 573 | 3,732 | 984 | 632 | 9,493 | |
| Undeveloped | 362 | 22 | 1,010 | 205 | 1,493 | 496 | 3,061 | 788 | 250 | 7,687 | |
| | 568 | 167 | 3,248 | 252 | 2,429 | 1,069 | 6,792 | 1,773 | 882 | 17,180 | |
| At 31 December | | | | | | | | | | | |

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| | | | | | | | | | | |
|-------------|-----|-----|-------|-----|-------|-----|-------|-------|-----|--------|
| Developed | 254 | 63 | 1,990 | 42 | 909 | 545 | 4,168 | 1,480 | 561 | 10,014 |
| Undeveloped | 338 | 75 | 1,012 | 209 | 1,313 | 420 | 3,235 | 896 | 299 | 7,797 |
| | 592 | 138 | 3,002 | 251 | 2,222 | 966 | 7,404 | 2,376 | 860 | 17,810 |

^a Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c 5.8 billion cubic feet of natural gas = 1 million barrels of oil equivalent.

^d Proved reserves in the Prudhoe Bay field in Alaska include an estimated 9 million barrels of oil equivalent upon which a net profits royalty will be payable, over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^e Rest of Asia includes additions from Abu Dhabi ADCO concession.

^f Excludes NGLs from processing plants in which an interest is held of less than 1 thousand barrels per day for subsidiaries and 3 thousand barrels per day for equity-accounted entities.

^g Includes 30 million barrels of oil equivalent of natural gas consumed in operations, 25 million barrels of oil equivalent in subsidiaries, 5 million barrels of oil equivalent in equity-accounted entities.

^h Includes 366 million barrels of oil equivalent in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

ⁱ Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^j Includes 402 million barrels of oil equivalent in respect of the non-controlling interest in Rosneft, including 29 mmboe held through BP's equity accounted interest in Taas-Yuryakh Neftegazodobycha.

^k Total proved reserves held as part of our equity interest in Rosneft is 7,447 million barrels of oil equivalent, comprising less than 1 million barrels of oil equivalent in Canada, 68 million barrels of oil equivalent in Venezuela, 4 million barrels of oil equivalent in Vietnam and 7,375 million barrels of oil equivalent in Russia.

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Movements in estimated net proved reserves – continued

| Crude oil ^{a b} | million barrels 2015 | | | | | | | | | | |
|--|-------------------------|----------------|-----------------|-----------------------|---------------|--------|-------|--------|---------------------------|-----------|----------|
| | Europe | | North America | | South America | Africa | Asia | Russia | Rest of Asia ^d | Australia | Tasmania |
| | UK | Rest of Europe | US ^c | Rest of North America | | | | | | | |
| Subsidiaries | | | | | | | | | | | |
| At 1 January | | | | | | | | | | | |
| Developed | 159 | 95 | 1,030 | 9 | 10 | 317 | — | 384 | 40 | 2,044 | |
| Undeveloped | 329 | 22 | 664 | 163 | 22 | 120 | — | 197 | 19 | 1,538 | |
| | 488 | 117 | 1,694 | 172 | 32 | 437 | — | 581 | 59 | 3,582 | |
| Changes attributable to | | | | | | | | | | | |
| Revisions of previous estimates | (23) |)2 | (130) |)39 | (2) |) 80 | — | 295 | (2) |) 260 | |
| Improved recovery | — | — | 15 | — | — | 2 | — | — | — | 18 | |
| Purchases of reserves-in-place | 1 | — | — | — | — | 6 | — | — | — | 7 | |
| Discoveries and extensions | — | — | 3 | 42 | — | 2 | — | — | — | 47 | |
| Production ^e | (27) | (14) | (115) | (1) | (5) | (98) | — | (87) | (6) | (353) |) |
| Sales of reserves-in-place | (1) | — | — | — | — | — | — | — | — | (1) |) |
| | (48) | (12) | (227) |)80 | (6) |) (8) | — | 208 | (8) |) (21) |) |
| At 31 December^f | | | | | | | | | | | |
| Developed | 141 | 86 | 890 | 46 | 8 | 340 | — | 598 | 35 | 2,146 | |
| Undeveloped | 298 | 19 | 577 | 205 | 18 | 89 | — | 192 | 16 | 1,414 | |
| | 440 | 106 | 1,467 | 252 | 26 | 429 | — | 790 | 51 | 3,560 | |
| Equity-accounted entities (BP share)^g | | | | | | | | | | | |
| At 1 January | | | | | | | | | | | |
| Developed | — | — | — | — | 316 | 2 | 2,997 | 89 | — | 3,405 | |
| Undeveloped | — | — | — | — | 314 | — | 1,933 | 11 | — | 2,258 | |
| | — | — | — | 1 | 630 | 2 | 4,930 | 101 | — | 5,663 | |
| Changes attributable to | | | | | | | | | | | |
| Revisions of previous estimates | — | — | — | — | 9 | — | (23) |)3 | — | (11) |) |
| Improved recovery | — | — | — | — | 3 | — | — | — | — | 3 | |
| Purchases of reserves-in-place | — | — | — | — | — | — | 28 | — | — | 28 | |
| Discoveries and extensions | — | — | — | — | 9 | — | 185 | — | — | 194 | |
| Production | — | — | — | — | (28) |)— | (295) | (35) |)— | (358) |) |
| Sales of reserves-in-place | — | — | — | — | — | — | (1) |)— | — | (1) |) |
| | — | — | — | — | (8) |)— | (105) | (32) |)— | (146) |) |
| At 31 December^h | | | | | | | | | | | |
| Developed | — | — | — | — | 311 | 2 | 2,844 | 68 | — | 3,225 | |
| Undeveloped | — | — | — | — | 311 | — | 1,981 | — | — | 2,292 | |
| | — | — | — | — | 622 | 2 | 4,825 | 68 | — | 5,517 | |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | | |
| At 1 January | | | | | | | | | | | |
| Developed | 159 | 95 | 1,030 | 9 | 326 | 319 | 2,997 | 473 | 40 | 5,448 | |
| Undeveloped | 329 | 22 | 664 | 164 | 336 | 120 | 1,933 | 208 | 19 | 3,796 | |
| | 488 | 117 | 1,694 | 173 | 662 | 439 | 4,930 | 682 | 59 | 9,244 | |
| At 31 December | | | | | | | | | | | |
| Developed | 141 | 86 | 890 | 47 | 319 | 342 | 2,844 | 666 | 35 | 5,371 | |

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| | | | | | | | | | | |
|-------------|-----|-----|-------|-----|-----|-----|-------|-----|----|-------|
| Undeveloped | 298 | 19 | 577 | 205 | 329 | 89 | 1,981 | 192 | 16 | 3,707 |
| | 440 | 106 | 1,467 | 252 | 648 | 431 | 4,825 | 858 | 51 | 9,078 |

Crude oil includes condensate and bitumen. Proved reserves exclude royalties due to others, whether payable in cash^a or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c Proved reserves in the Prudhoe Bay field in Alaska include an estimated 23 million barrels upon which a net profits royalty will be payable over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^d Production volume recognition methodology for our Technical Service Contract arrangement in Iraq was simplified in 2016 to exclude the impact of oil price movements on lifting imbalances. A minor adjustment has been made to comparative periods. There was no impact on 2015 proved reserves totals.

^e Includes 8 million barrels of crude oil in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^f Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^g Includes 70 million barrels of crude oil in respect of the 1.27% non-controlling interest in Rosneft, including 28 mmbbl held through BP's equity accounted interest in Taas-Yuryakh Neftegazodobycha.

^h Total proved crude oil reserves held as part of our equity interest in Rosneft is 4,823 million barrels, comprising less than 1 million barrels in Vietnam and Canada, 26 million barrels in Venezuela and 4,797 million barrels in Russia.

Movements in estimated net proved reserves – continued

| | million barrels 2015 | | | | | | | | | |
|--|-------------------------|----------------|---------------|-----------------------|---------------|--------|--------|--------------|-------|------|
| | Europe | | North America | | South America | Africa | Asia | Australia | Total | |
| | UK | Rest of Europe | US | Rest of North America | | | Russia | Rest of Asia | | |
| Subsidiaries | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 6 | 13 | 323 | — | 11 | 5 | — | — | 6 | 364 |
| Undeveloped | 3 | 1 | 104 | — | 28 | 7 | — | — | 3 | 146 |
| | 9 | 14 | 427 | — | 39 | 12 | — | — | 10 | 510 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | 2 | — | (80) | — | — | 6 | — | — | 3 | (69) |
| Improved recovery | — | — | 12 | — | — | — | — | — | — | 12 |
| Purchases of reserves-in-place | — | — | 3 | — | — | — | — | — | — | 4 |
| Discoveries and extensions | — | — | — | — | — | — | — | — | — | — |
| Production ^c | (2) | (2) | (23) | — | (4) | (3) | — | — | (1) | (34) |
| Sales of reserves-in-place | — | — | (1) | — | — | — | — | — | — | (1) |
| | — | (2) | (88) | — | (4) | 3 | — | — | 2 | (88) |
| At 31 December ^d | | | | | | | | | | |
| Developed | 5 | 11 | 269 | — | 7 | 5 | — | — | 9 | 308 |
| Undeveloped | 4 | 1 | 70 | — | 28 | 10 | — | — | 2 | 115 |
| | 10 | 12 | 339 | — | 35 | 15 | — | — | 12 | 422 |
| Equity-accounted entities (BP share)^e | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | — | — | — | — | — | 15 | 30 | — | — | 46 |
| Undeveloped | — | — | — | — | — | — | 16 | — | — | 16 |
| | — | — | — | — | — | 15 | 46 | — | — | 62 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | — | — | — | — | — | (3) | 1 | — | — | (2) |
| Improved recovery | — | — | — | — | — | — | — | — | — | — |
| Purchases of reserves-in-place | — | — | — | — | — | — | — | — | — | — |
| Discoveries and extensions | — | — | — | — | — | — | — | — | — | — |
| Production | — | — | — | — | — | — | — | — | — | — |
| Sales of reserves-in-place | — | — | — | — | — | — | — | — | — | — |
| | — | — | — | — | — | (3) | 1 | — | — | (2) |
| At 31 December ^f | | | | | | | | | | |
| Developed | — | — | — | — | — | 13 | 32 | — | — | 45 |
| Undeveloped | — | — | — | — | — | — | 15 | — | — | 15 |
| | — | — | — | — | — | 13 | 47 | — | — | 60 |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 6 | 13 | 323 | — | 11 | 20 | 30 | — | 6 | 410 |
| Undeveloped | 3 | 1 | 104 | — | 28 | 7 | 16 | — | 3 | 163 |
| | 9 | 14 | 427 | — | 39 | 27 | 46 | — | 10 | 572 |
| At 31 December | | | | | | | | | | |
| Developed | 5 | 11 | 269 | — | 7 | 18 | 32 | — | 9 | 352 |

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| | | | | | | | | | | |
|-------------|----|----|-----|---|----|----|----|---|----|-----|
| Undeveloped | 4 | 1 | 70 | — | 28 | 10 | 15 | — | 2 | 130 |
| | 10 | 12 | 339 | — | 35 | 28 | 47 | — | 12 | 482 |

Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c Excludes NGLs from processing plants in which an interest is held of less than 1 thousand barrels per day for subsidiaries and 4 thousand barrels per day for equity-accounted entities.

^d Includes 11 million barrels of NGL in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^e Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^f Total proved NGL reserves held as part of our equity interest in Rosneft is 47 million barrels, comprising less than 1 million barrels in Venezuela, Vietnam and Canada, and 47 million barrels in Russia.

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Movements in estimated net proved reserves – continued

| Total liquids ^{a b} | million barrels 2015 | | | | | | | | | |
|--|-------------------------|----------------|-----------------|-----------------------|---------------|--------|--------|---------------------------|------|--------|
| | Europe | | North America | | South America | Africa | Asia | Australia | Asia | |
| | UK | Rest of Europe | US ^c | Rest of North America | | | Russia | Rest of Asia ^d | | |
| Subsidiaries | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 166 | 108 | 1,352 | 9 | 21 | 322 | — | 384 | 46 | 2,407 |
| Undeveloped | 332 | 23 | 769 | 163 | 50 | 127 | — | 197 | 22 | 1,684 |
| | 497 | 131 | 2,121 | 172 | 71 | 449 | — | 581 | 68 | 4,092 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | (20) |)2 | (210) |)39 | (2) |)86 | — | 295 | 1 | 191 |
| Improved recovery | — | — | 28 | — | — | 2 | — | — | — | 30 |
| Purchases of reserves-in-place | 1 | — | 3 | — | — | 6 | — | — | — | 11 |
| Discoveries and extensions | — | — | 4 | 42 | — | 2 | — | — | — | 48 |
| Production ^e | (29) | (16) |)(138) |)(1 |)(8) |)(101) | — | (87) |)(7) |)(387) |
| Sales of reserves-in-place | (1) |)— | (1) |)— | — | — | — | — | — | (2) |
| | (48) | (14) |)(315) |)80 | (10) |) (5) | — | 208 | (6) |)(109) |
| At 31 December ^f | | | | | | | | | | |
| Developed | 147 | 98 | 1,159 | 46 | 15 | 346 | — | 598 | 45 | 2,453 |
| Undeveloped | 302 | 20 | 647 | 205 | 46 | 99 | — | 192 | 18 | 1,529 |
| | 449 | 117 | 1,806 | 252 | 61 | 444 | — | 790 | 63 | 3,982 |
| Equity-accounted entities (BP share)^g | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | — | — | — | — | 316 | 17 | 3,028 | 89 | — | 3,451 |
| Undeveloped | — | — | — | — | 314 | — | 1,949 | 11 | — | 2,274 |
| | — | — | — | 1 | 630 | 17 | 4,976 | 101 | — | 5,725 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | — | — | — | — | 9 | (3) |)(22) |)3 | — | (13) |
| Improved recovery | — | — | — | — | 3 | — | — | — | — | 3 |
| Purchases of reserves-in-place | — | — | — | — | — | — | 28 | — | — | 28 |
| Discoveries and extensions | — | — | — | — | 9 | — | 185 | — | — | 194 |
| Production | — | — | — | — | (28) |)— | (295) |)(35) | — |)(358) |
| Sales of reserves-in-place | — | — | — | — | — | — | (1) |)— | — | (1) |
| | — | — | — | (1) |)(8) |) (3) |)(104) |)(32) | — |)(147) |
| At 31 December ^{h i} | | | | | | | | | | |
| Developed | — | — | — | — | 311 | 14 | 2,876 | 68 | — | 3,270 |
| Undeveloped | — | — | — | — | 312 | — | 1,996 | — | — | 2,307 |
| | — | — | — | — | 622 | 14 | 4,872 | 68 | — | 5,577 |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 166 | 108 | 1,352 | 9 | 337 | 339 | 3,028 | 473 | 46 | 5,858 |
| Undeveloped | 332 | 23 | 769 | 164 | 364 | 127 | 1,949 | 208 | 22 | 3,958 |
| | 497 | 131 | 2,121 | 173 | 701 | 466 | 4,976 | 682 | 68 | 9,817 |
| At 31 December | | | | | | | | | | |
| Developed | 147 | 98 | 1,159 | 47 | 326 | 360 | 2,876 | 666 | 45 | 5,723 |

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| | | | | | | | | | | |
|-------------|-----|-----|-------|-----|-----|-----|-------|-----|----|-------|
| Undeveloped | 302 | 20 | 647 | 205 | 357 | 99 | 1,996 | 192 | 18 | 3,836 |
| | 449 | 117 | 1,806 | 252 | 684 | 459 | 4,872 | 858 | 63 | 9,560 |

^a Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c Proved reserves in the Prudhoe Bay field in Alaska include an estimated 23 million barrels upon which a net profits royalty will be payable, over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^d Production volume recognition methodology for our Technical Service Contract arrangement in Iraq was simplified in 2016 to exclude the impact of oil price movements on lifting imbalances. A minor adjustment has been made to comparative periods. There was no impact on 2015 proved reserves totals.

^e Excludes NGLs from processing plants in which an interest is held of less than 1 thousand barrels per day for subsidiaries and 4 thousand barrels per day for equity-accounted entities.

^f Also includes 19 million barrels in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^g Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^h Includes 70 million barrels in respect of the non-controlling interest in Rosneft, including 28 mmbbl held through BP's equity accounted interest in Taas-Yuryakh Neftegazodobycha.

ⁱ Total proved liquid reserves held as part of our equity interest in Rosneft is 4,871 million barrels, comprising less than 1 million barrels in Canada, 26 million barrels in Venezuela, less than 1 million barrels in Vietnam and 4,844 million barrels in Russia.

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Movements in estimated net proved reserves – continued

| Natural gas ^{a b} | billion cubic feet 2015 | | | | | | | | | | |
|--|----------------------------|----------------|---------------|-----------------------|---------------|--------|--------------|-----------|-------|---------|---|
| | Europe | | North America | | South America | Africa | Asia | Australia | Total | | |
| | UK | Rest of Europe | US | Rest of North America | | Russia | Rest of Asia | | | | |
| Subsidiaries | | | | | | | | | | | |
| At 1 January | | | | | | | | | | | |
| Developed | 382 | 300 | 7,168 | 17 | 2,352 | 901 | — | 1,688 | 3,316 | 16,124 | |
| Undeveloped | 386 | 19 | 2,447 | — | 6,313 | 1,597 | — | 3,892 | 1,719 | 16,372 | |
| | 768 | 318 | 9,615 | 17 | 8,666 | 2,497 | — | 5,580 | 5,035 | 32,496 | |
| Changes attributable to | | | | | | | | | | | |
| Revisions of previous estimates | (12) |)14 | (1,120) | (13 |)132 | 203 | — | (165 |)13 | (948 |) |
| Improved recovery | 4 | — | 432 | — | — | 7 | — | — | — | 443 | |
| Purchases of reserves-in-place | — | — | 65 | — | 29 | 554 | — | — | — | 648 | |
| Discoveries and extensions | — | — | 5 | — | — | 174 | — | — | — | 179 | |
| Production ^c | (65) | (44 |)(628 |)(4 |)(709 |)(248 |)— | (157 |)(297 |)(2,151 |) |
| Sales of reserves-in-place | (5 |)— | (6 |)— | (58 |)(35 |)— | — | — | (104 |) |
| | (77) | (30 |)(1,252) | (17 |)(605 |)654 | — | (322 |)(284 |)(1,933 |) |
| At 31 December ^d | | | | | | | | | | | |
| Developed | 348 | 274 | 6,257 | — | 2,071 | 847 | — | 1,803 | 3,408 | 15,009 | |
| Undeveloped | 343 | 14 | 2,105 | — | 5,989 | 2,305 | — | 3,455 | 1,343 | 15,553 | |
| | 691 | 288 | 8,363 | — | 8,060 | 3,152 | — | 5,257 | 4,751 | 30,563 | |
| Equity-accounted entities (BP share)^e | | | | | | | | | | | |
| At 1 January | | | | | | | | | | | |
| Developed | — | — | — | 1 | 1,228 | 400 | 4,674 | 60 | — | 6,363 | |
| Undeveloped | — | — | — | 1 | 717 | — | 5,111 | 9 | — | 5,837 | |
| | — | — | — | 1 | 1,945 | 400 | 9,785 | 69 | — | 12,200 | |
| Changes attributable to | | | | | | | | | | | |
| Revisions of previous estimates | — | — | — | (1 |)81 | (14 |)1,604 | (2 |)— | 1,669 | |
| Improved recovery | — | — | — | — | 8 | — | — | — | — | 8 | |
| Purchases of reserves-in-place | — | — | — | — | — | — | 5 | — | — | 5 | |
| Discoveries and extensions | — | — | — | — | 209 | — | 175 | — | — | 384 | |
| Production ^c | — | — | — | — | (182 |)— | (430 |)(19 |)— | (632 |) |
| Sales of reserves-in-place | — | — | — | — | (1 |)— | — | — | — | (1 |) |
| | — | — | — | (1 |)116 | (14 |)1,354 | (21 |)— | 1,434 | |
| At 31 December ^{f g} | | | | | | | | | | | |
| Developed | — | — | — | 1 | 1,463 | 386 | 4,962 | 44 | — | 6,856 | |
| Undeveloped | — | — | — | — | 598 | — | 6,176 | 4 | — | 6,778 | |
| | — | — | — | 1 | 2,061 | 386 | 11,139 | 48 | — | 13,634 | |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | | |
| At 1 January | | | | | | | | | | | |
| Developed | 382 | 300 | 7,168 | 18 | 3,581 | 1,301 | 4,674 | 1,748 | 3,316 | 22,487 | |
| Undeveloped | 386 | 19 | 2,447 | 1 | 7,030 | 1,597 | 5,111 | 3,901 | 1,719 | 22,209 | |
| | 768 | 318 | 9,615 | 18 | 10,610 | 2,897 | 9,785 | 5,648 | 5,035 | 44,695 | |
| At 31 December | | | | | | | | | | | |

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| | | | | | | | | | | |
|-------------|-----|-----|-------|---|--------|-------|--------|-------|-------|--------|
| Developed | 348 | 274 | 6,257 | 1 | 3,534 | 1,233 | 4,962 | 1,847 | 3,408 | 21,865 |
| Undeveloped | 343 | 14 | 2,105 | — | 6,587 | 2,305 | 6,176 | 3,459 | 1,343 | 22,331 |
| | 691 | 288 | 8,363 | 1 | 10,121 | 3,538 | 11,139 | 5,305 | 4,751 | 44,197 |

^a Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c Includes 175 billion cubic feet of natural gas consumed in operations, 146 billion cubic feet in subsidiaries, 29 billion cubic feet in equity-accounted entities.

^d Includes 2,359 billion cubic feet of natural gas in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^e Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^f Includes 129 billion cubic feet of natural gas in respect of the 0.23% non-controlling interest in Rosneft including 5 billion cubic feet held through BP's equity accounted interest in Taas-Yuryakh Neftegazodobycha.

^g Total proved gas reserves held as part of our equity interest in Rosneft is 11,169 billion cubic feet, comprising 1 billion cubic feet in Canada, 13 billion cubic feet in Venezuela, 22 billion cubic feet in Vietnam and 11,133 billion cubic feet in Russia.

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Movements in estimated net proved reserves – continued

| Total hydrocarbons ^{a b} | million barrels of oil equivalent ^c | | | | | | | | | |
|---|--|----------------|-----------------|-----------------------|---------------|--------|--------|---------------------------|------|--------|
| | Europe | | North America | | South America | Africa | Asia | Australia | | Total |
| | UK | Rest of Europe | US ^d | Rest of North America | | | Russia | Rest of Asia ^e | | |
| Subsidiaries | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 232 | 160 | 2,588 | 12 | 426 | 477 | — | 675 | 618 | 5,187 |
| Undeveloped | 398 | 26 | 1,191 | 163 | 1,139 | 403 | — | 868 | 319 | 4,507 |
| | 630 | 186 | 3,779 | 175 | 1,565 | 880 | — | 1,543 | 937 | 9,695 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | (22) | 4 | (403) | 36 | 21 | 121 | — | 267 | 4 | 27 |
| Improved recovery | 1 | — | 102 | — | — | 3 | — | — | — | 106 |
| Purchases of reserves-in-place | 1 | — | 15 | — | 5 | 102 | — | — | — | 122 |
| Discoveries and extensions | — | — | 4 | 42 | — | 32 | — | — | — | 79 |
| Production ^{f g} | (40) | (23) | (247) | (2) | (130) | (144) | — | (114) | (58) | (758) |
| Sales of reserves-in-place | (1) | — | (2) | — | (10) | (6) | — | — | — | (19) |
| | (62) | (19) | (531) | 77 | (114) | 108 | — | 153 | (55) | (443) |
| At 31 December ^h | | | | | | | | | | |
| Developed | 207 | 145 | 2,238 | 46 | 373 | 492 | — | 909 | 632 | 5,041 |
| Undeveloped | 362 | 22 | 1,010 | 205 | 1,078 | 496 | — | 788 | 250 | 4,211 |
| | 568 | 167 | 3,248 | 252 | 1,451 | 988 | — | 1,696 | 882 | 9,252 |
| Equity-accounted entities (BP share) ⁱ | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | — | — | — | — | 528 | 86 | 3,834 | 100 | — | 4,548 |
| Undeveloped | — | — | — | 1 | 438 | — | 2,830 | 13 | — | 3,280 |
| | — | — | — | 1 | 965 | 86 | 6,663 | 112 | — | 7,828 |
| Changes attributable to | | | | | | | | | | |
| Revisions of previous estimates | — | — | — | (1) | 23 | (5) | 255 | 3 | — | 274 |
| Improved recovery | — | — | — | — | 5 | — | — | — | — | 5 |
| Purchases of reserves-in-place | — | — | — | — | — | — | 29 | — | — | 29 |
| Discoveries and extensions | — | — | — | — | 45 | — | 215 | — | — | 260 |
| Production ^g | — | — | — | — | (60) | — | (369) | (39) | — | (467) |
| Sales of reserves-in-place | — | — | — | — | — | — | (1) | — | — | (1) |
| | — | — | — | (1) | 12 | (5) | 129 | (36) | — | 100 |
| At 31 December ^{j k} | | | | | | | | | | |
| Developed | — | — | — | — | 563 | 81 | 3,732 | 76 | — | 4,452 |
| Undeveloped | — | — | — | — | 415 | — | 3,061 | 1 | — | 3,476 |
| | — | — | — | — | 978 | 81 | 6,792 | 77 | — | 7,928 |
| Total subsidiaries and equity-accounted entities (BP share) | | | | | | | | | | |
| At 1 January | | | | | | | | | | |
| Developed | 232 | 160 | 2,588 | 12 | 954 | 563 | 3,834 | 775 | 618 | 9,735 |
| Undeveloped | 398 | 26 | 1,191 | 164 | 1,576 | 403 | 2,830 | 881 | 319 | 7,788 |
| | 630 | 186 | 3,779 | 176 | 2,530 | 966 | 6,663 | 1,656 | 937 | 17,523 |
| At 31 December | | | | | | | | | | |

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| | | | | | | | | | | |
|-------------|-----|-----|-------|-----|-------|-------|-------|-------|-----|--------|
| Developed | 207 | 145 | 2,238 | 47 | 936 | 573 | 3,732 | 984 | 632 | 9,493 |
| Undeveloped | 362 | 22 | 1,010 | 205 | 1,493 | 496 | 3,061 | 788 | 250 | 7,687 |
| | 568 | 167 | 3,248 | 252 | 2,429 | 1,069 | 6,792 | 1,773 | 882 | 17,180 |

^a Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c 5.8 billion cubic feet of natural gas = 1 million barrels of oil equivalent.

^d Proved reserves in the Prudhoe Bay field in Alaska include an estimated 23 million barrels of oil equivalent upon which a net profits royalty will be payable, over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^e Production volume recognition methodology for our Technical Service Contract arrangement in Iraq was simplified in 2016 to exclude the impact of oil price movements on lifting imbalances. A minor adjustment has been made to comparative periods. There was no impact on 2015 proved reserves totals.

^f Excludes NGLs from processing plants in which an interest is held of less than 1 thousand barrels per day for subsidiaries and 4 thousand barrels per day for equity-accounted entities.

^g Includes 30 million barrels of oil equivalent of natural gas consumed in operations, 25 million barrels of oil equivalent in subsidiaries, 5 million barrels of oil equivalent in equity-accounted entities.

^h Includes 425 million barrels of oil equivalent in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

ⁱ Volumes of equity-accounted entities include volumes of equity-accounted investments of those entities.

^j Includes 70 million barrels of oil equivalent in respect of the non-controlling interest in Rosneft, including 28 mmboe held through BP's equity accounted interest in Taas-Yuryakh Neftegazodobycha.

^k Total proved reserves held as part of our equity interest in Rosneft is 6,796 million barrels of oil equivalent, comprising less than 1 million barrels of oil equivalent in Canada, 28 million barrels of oil equivalent in Venezuela, 4 million barrels of oil equivalent in Vietnam and 6,764 million barrels of oil equivalent in Russia.

Standardized measure of discounted future net cash flows and changes therein relating to proved oil and gas reserves
The following tables set out the standardized measure of discounted future net cash flows, and changes therein, relating to crude oil and natural gas production from the group's estimated proved reserves. This information is prepared in compliance with FASB Oil and Gas Disclosures requirements.

Future net cash flows have been prepared on the basis of certain assumptions which may or may not be realized. These include the timing of future production, the estimation of crude oil and natural gas reserves and the application of average crude oil and natural gas prices and exchange rates from the previous 12 months. Furthermore, both proved reserves estimates and production forecasts are subject to revision as further technical information becomes available and economic conditions change. BP cautions against relying on the information presented because of the highly arbitrary nature of the assumptions on which it is based and its lack of comparability with the historical cost information presented in the financial statements.

| | \$ million 2017 | | | | | | | | | |
|---|--------------------|----------------|---------------|-----------------------|---------------|--------|--------------|-------------|--------|---------|
| | Europe | | North America | | South America | Africa | Asia | Australasia | | Total |
| | UK | Rest of Europe | US | Rest of North America | | Russia | Rest of Asia | | | |
| At 31 December | | | | | | | | | | |
| Subsidiaries | | | | | | | | | | |
| Future cash inflows ^a | 26,300 | — | 99,200 | 7,100 | 15,200 | 27,000 | — | 118,800 | 26,200 | 319,800 |
| Future production cost ^b | 13,800 | — | 46,700 | 4,100 | 7,100 | 8,600 | — | 52,600 | 8,400 | 141,300 |
| Future development cost ^b | 1,700 | — | 12,100 | 1,100 | 2,400 | 3,400 | — | 18,200 | 3,200 | 42,100 |
| Future taxation ^c | 4,200 | — | 6,500 | — | 1,700 | 3,800 | — | 33,200 | 4,800 | 54,200 |
| Future net cash flows | 6,600 | — | 33,900 | 1,900 | 4,000 | 11,200 | — | 14,800 | 9,800 | 82,200 |
| 10% annual discount ^{d e} | 2,100 | — | 13,100 | 1,100 | 500 | 3,400 | — | 5,500 | 4,800 | 30,500 |
| Standardized measure of discounted future net cash flows ^e | 4,500 | — | 20,800 | 800 | 3,500 | 7,800 | — | 9,300 | 5,000 | 51,700 |
| Equity-accounted entities (BP share) ^f | | | | | | | | | | |
| Future cash inflows ^a | — | 9,000 | — | — | 32,900 | — | 205,100 | 400 | — | 247,400 |
| Future production cost ^b | — | 4,100 | — | — | 15,500 | — | 114,900 | 300 | — | 134,800 |
| Future development cost ^b | — | 800 | — | — | 3,400 | — | 17,600 | 100 | — | 21,900 |
| Future taxation ^c | — | 3,100 | — | — | 3,100 | — | 12,400 | — | — | 18,600 |
| Future net cash flows | — | 1,000 | — | — | 10,900 | — | 60,200 | — | — | 72,100 |
| 10% annual discount ^d | — | 400 | — | — | 6,400 | — | 34,900 | — | — | 41,700 |
| Standardized measure of discounted future net cash flows ^{g h} | — | 600 | — | — | 4,500 | — | 25,300 | — | — | 30,400 |
| Total subsidiaries and equity-accounted entities | | | | | | | | | | |
| Standardized measure of discounted future net cash flows | 4,500 | 600 | 20,800 | 800 | 8,000 | 7,800 | 25,300 | 9,300 | 5,000 | 82,100 |

The following are the principal sources of change in the standardized measure of discounted future net cash flows:

| | \$ million | | |
|--|--------------|--------------------------------------|--|
| | Subsidiaries | Equity-accounted entities (BP share) | Total subsidiaries and equity-accounted entities |
| Sales and transfers of oil and gas produced, net of production costs | (12,800) | (5,500) | (18,300) |
| | 9,800 | 4,200 | 14,000 |

Development costs for the current year as estimated in previous year

| | | | |
|---|----------|---------|----------|
| Extensions, discoveries and improved recovery, less related costs | 2,300 | 1,300 | 3,600 |
| Net changes in prices and production cost | 33,100 | 7,300 | 40,400 |
| Revisions of previous reserves estimates | 2,800 | 1,000 | 3,800 |
| Net change in taxation | (12,500) | (1,500) | (14,000) |
| Future development costs | 3,000 | (4,600) | (1,600) |
| Net change in purchase and sales of reserves-in-place | 800 | (600) | 200 |
| Addition of 10% annual discount | 2,300 | 2,600 | 4,900 |
| Total change in the standardized measure during the year ^j | 28,800 | 4,200 | 33,000 |

^a The marker prices used were Brent \$54.36/bbl, Henry Hub \$2.96/mmBtu.

^b Production costs, which include production taxes, and development costs relating to future production of proved reserves are based on the continuation of existing economic conditions. Future decommissioning costs are included.

^c Taxation is computed with reference to appropriate year-end statutory corporate income tax rates.

^d Future net cash flows from oil and natural gas production are discounted at 10% regardless of the group assessment of the risk associated with its producing activities.

^e Non-controlling interests in BP Trinidad and Tobago LLC amounted to \$1,100 million.

^f The standardized measure of discounted future net cash flows of equity-accounted entities includes standardized measure of discounted future net cash flows of equity-accounted investments of those entities.

^g Non-controlling interests in Rosneft amounted to \$1,963 million in Russia.

^h No equity-accounted future cash flows in Africa because proved reserves are received as a result of contractual arrangements, with no associated costs.

ⁱ Total change in the standardized measure during the year includes the effect of exchange rate movements. Exchange rate effects arising from the translation of our share of Rosneft changes to US dollars are included within 'Net changes in prices and production cost'.

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Standardized measure of discounted future net cash flows and changes therein relating to proved oil and gas reserves – continued

| | | | | | | | | | \$ million 2016 | |
|---|--------|----------------|---------------|-----------------------|---------------|--------|--------------|-------------|-----------------------|---------|
| | Europe | | North America | | South America | Africa | Asia | Australasia | Total | |
| | UK | Rest of Europe | US | Rest of North America | | Russia | Rest of Asia | | | |
| At 31 December | | | | | | | | | | |
| Subsidiaries | | | | | | | | | | |
| Future cash inflows ^a | 21,600 | — | 72,400 | 4,500 | 11,700 | 23,600 | — | 78,100 | 24,000 | 235,900 |
| Future production cost ^b | 13,900 | — | 43,100 | 3,500 | 6,600 | 10,000 | — | 42,600 | 9,400 | 129,100 |
| Future development cost ^b | 3,000 | — | 14,300 | 1,100 | 3,700 | 5,100 | — | 15,400 | 3,500 | 46,100 |
| Future taxation ^c | 1,700 | — | 500 | — | 100 | 2,000 | — | 17,800 | 3,400 | 25,500 |
| Future net cash flows | 3,000 | — | 14,500 | (100) | 1,300 | 6,500 | — | 2,300 | 7,700 | 35,200 |
| 10% annual discount ^{d e} | 900 | — | 4,900 | — | 200 | 2,800 | — | (600) | 4,100 | 12,300 |
| Standardized measure of discounted future net cash flows ^{e f} | 2,100 | — | 9,600 | (100) | 1,100 | 3,700 | — | 2,900 | 3,600 | 22,900 |
| Equity-accounted entities (BP share) ^g | | | | | | | | | | |
| Future cash inflows ^a | — | 5,400 | — | — | 34,400 | — | 159,900 | 1,900 | — | 201,600 |
| Future production cost ^b | — | 3,000 | — | — | 16,500 | — | 84,300 | 1,200 | — | 105,000 |
| Future development cost ^b | — | 700 | — | — | 3,800 | — | 13,200 | 700 | — | 18,400 |
| Future taxation ^c | — | 1,300 | — | — | 3,600 | — | 10,100 | — | — | 15,000 |
| Future net cash flows | — | 400 | — | — | 10,500 | — | 52,300 | — | — | 63,200 |
| 10% annual discount ^d | — | 200 | — | — | 6,100 | — | 30,700 | — | — | 37,000 |
| Standardized measure of discounted future net cash flows ^{h i} | — | 200 | — | — | 4,400 | — | 21,600 | — | — | 26,200 |
| Total subsidiaries and equity-accounted entities | | | | | | | | | | |
| Standardized measure of discounted future net cash flows | 2,100 | 200 | 9,600 | (100) | 5,500 | 3,700 | 21,600 | 2,900 | 3,600 | 49,100 |

The following are the principal sources of change in the standardized measure of discounted future net cash flows:

| | \$ million | | |
|--|--------------|--------------------------------------|--|
| | Subsidiaries | Equity-accounted entities (BP share) | Total subsidiaries and equity-accounted entities |
| Sales and transfers of oil and gas produced, net of production costs | (15,200) | (5,400) | (20,600) |
| Development costs for the current year as estimated in previous year | 13,100 | 3,500 | 16,600 |
| Extensions, discoveries and improved recovery, less related costs | 700 | 900 | 1,600 |
| Net changes in prices and production cost | (25,500) | (5,900) | (31,400) |
| Revisions of previous reserves estimates | 12,200 | 1,200 | 13,400 |
| Net change in taxation | (2,500) | 900 | (1,600) |
| Future development costs | 4,900 | (2,500) | 2,400 |
| Net change in purchase and sales of reserves-in-place | 1,800 | 2,900 | 4,700 |
| Addition of 10% annual discount | 3,000 | 2,800 | 5,800 |
| | (7,500) | (1,600) | (9,100) |

Total change in the standardized measure during the year^j

^a The marker prices used were Brent \$42.82/bbl, Henry Hub \$2.46/mmBtu.

^b Production costs, which include production taxes, and development costs relating to future production of proved reserves are based on the continuation of existing economic conditions. Future decommissioning costs are included.

^c Taxation is computed with reference to appropriate year-end statutory corporate income tax rates.

^d Future net cash flows from oil and natural gas production are discounted at 10% regardless of the group assessment of the risk associated with its producing activities.

^e In certain situations, revenues and costs are included in the standardized measure of discounted future net cash flows valuation and excluded from the determination of proved reserves and vice versa. This can result in the standardized measure of discounted future net cash flows being negative. Depending on the timing of those cash flows the effect of discounting may be to increase the discounted future net cash flows.

^f Non-controlling interests in BP Trinidad and Tobago LLC amounted to \$300 million.

^g The standardized measure of discounted future net cash flows of equity-accounted entities includes standardized measure of discounted future net cash flows of equity-accounted investments of those entities.

^h Non-controlling interests in Rosneft amounted to \$1,608 million in Russia.

ⁱ No equity-accounted future cash flows in Africa because proved reserves are received as a result of contractual arrangements, with no associated costs.

^j Total change in the standardized measure during the year includes the effect of exchange rate movements. Exchange rate effects arising from the translation of our share of Rosneft to US dollars are included within 'Net changes in prices and production cost'.

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Standardized measure of discounted future net cash flows and changes therein relating to proved oil and gas reserves – continued

| | | | | | | | | | \$ million 2015 | |
|---|--------|----------------|---------------|-----------------------|---------------|--------|--------------|-------------|-----------------------|---------|
| | Europe | | North America | | South America | Africa | Asia | Australasia | | Total |
| | UK | Rest of Europe | US | Rest of North America | | Russia | Rest of Asia | | | |
| At 31 December | | | | | | | | | | |
| Subsidiaries | | | | | | | | | | |
| Future cash inflows ^a | 27,500 | 7,800 | 98,100 | 7,200 | 20,100 | 32,800 | — | 65,200 | 32,000 | 290,700 |
| Future production cost ^b | 15,700 | 5,300 | 56,300 | 4,200 | 8,600 | 12,000 | — | 35,900 | 15,200 | 153,200 |
| Future development cost ^b | 4,700 | 700 | 18,800 | 1,700 | 7,000 | 8,100 | — | 18,200 | 4,500 | 63,700 |
| Future taxation ^c | 2,900 | 800 | 3,100 | — | 1,700 | 3,300 | — | 3,800 | 4,000 | 19,600 |
| Future net cash flows | 4,200 | 1,000 | 19,900 | 1,300 | 2,800 | 9,400 | — | 7,300 | 8,300 | 54,200 |
| 10% annual discount ^d | 1,900 | 300 | 7,400 | 900 | 900 | 4,300 | — | 3,700 | 4,400 | 23,800 |
| Standardized measure of discounted future net cash flows ^e | 2,300 | 700 | 12,500 | 400 | 1,900 | 5,100 | — | 3,600 | 3,900 | 30,400 |
| Equity-accounted entities (BP share) ^f | | | | | | | | | | |
| Future cash inflows ^a | — | — | — | — | 39,900 | — | 182,300 | 3,700 | — | 225,900 |
| Future production cost ^b | — | — | — | — | 20,200 | — | 101,200 | 2,200 | — | 123,600 |
| Future development cost ^b | — | — | — | — | 5,300 | — | 11,000 | 1,300 | — | 17,600 |
| Future taxation ^c | — | — | — | — | 3,900 | — | 12,400 | 100 | — | 16,400 |
| Future net cash flows | — | — | — | — | 10,500 | — | 57,700 | 100 | — | 68,300 |
| 10% annual discount ^d | — | — | — | — | 6,700 | — | 33,800 | — | — | 40,500 |
| Standardized measure of discounted future net cash flows ^{g h} | — | — | — | — | 3,800 | — | 23,900 | 100 | — | 27,800 |
| Total subsidiaries and equity-accounted entities | | | | | | | | | | |
| Standardized measure of discounted future net cash flows | 2,300 | 700 | 12,500 | 400 | 5,700 | 5,100 | 23,900 | 3,700 | 3,900 | 58,200 |

The following are the principal sources of change in the standardized measure of discounted future net cash flows:

| | \$ million | | |
|---|--------------|--------------------------------------|--|
| | Subsidiaries | Equity-accounted entities (BP share) | Total subsidiaries and equity-accounted entities |
| Sales and transfers of oil and gas produced, net of production costs | (27,900) | (7,300) | (35,200) |
| Development costs for the current year as estimated in previous year | 15,000 | 4,500 | 19,500 |
| Extensions, discoveries and improved recovery, less related costs | 600 | 700 | 1,300 |
| Net changes in prices and production cost | (100,400) | (24,700) | (125,100) |
| Revisions of previous reserves estimates | 13,500 | 500 | 14,000 |
| Net change in taxation | 38,600 | 2,300 | 40,900 |
| Future development costs | 3,200 | (100) | 3,100 |
| Net change in purchase and sales of reserves-in-place | (700) | 300 | (400) |
| Addition of 10% annual discount | 8,000 | 4,700 | 12,700 |
| Total change in the standardized measure during the year ⁱ | (50,100) | (19,100) | (69,200) |

- ^a The marker prices used were Brent \$54.17/bbl, Henry Hub \$2.59/mmBtu.
- ^b Production costs, which include production taxes, and development costs relating to future production of proved reserves are based on the continuation of existing economic conditions. Future decommissioning costs are included.
- ^c Taxation is computed with reference to appropriate year-end statutory corporate income tax rates.
- ^d Future net cash flows from oil and natural gas production are discounted at 10% regardless of the group assessment of the risk associated with its producing activities.
- ^e Non-controlling interests in BP Trinidad and Tobago LLC amounted to \$600 million.
- ^f The standardized measure of discounted future net cash flows of equity-accounted entities includes standardized measure of discounted future net cash flows of equity-accounted investments of those entities.
- ^g Non-controlling interests in Rosneft amounted to \$93 million in Russia.
- ^h No equity-accounted future cash flows in Africa because proved reserves are received as a result of contractual arrangements, with no associated costs.
Total change in the standardized measure during the year includes the effect of exchange rate movements. Exchange
- ⁱ rate effects arising from the translation of our share of Rosneft to US dollars are included within 'Net changes in prices and production cost'.

Operational and statistical information

The following tables present operational and statistical information related to production, drilling, productive wells and acreage. Figures include amounts attributable to assets held for sale.

Crude oil and natural gas production

The following table shows crude oil, natural gas liquids and natural gas production for the years ended 31 December 2017, 2016 and 2015.

Production for the year^{a b}

| | Europe | | North America | | South America | Africa | Asia | Russia ^c | Australia | | Total |
|--------------------------------------|--------|----------------|---------------|-----------------------|---------------|--------|-------|---------------------|---------------------------|-----|----------------------------|
| | UK | Rest of Europe | US | Rest of North America | | | | | Rest of Asia ^d | | |
| Subsidiaries ^e | | | | | | | | | | | |
| | | | | | | | | | | | thousand barrels per day |
| Crude oil ^f | | | | | | | | | | | |
| 2017 | 80 | — | 370 | 20 | 12 | 241 | — | 325 | 17 | 17 | 1,064 |
| 2016 | 79 | 24 | 335 | 13 | 10 | 263 | — | 204 | 16 | 16 | 943 |
| 2015 | 72 | 38 | 323 | 3 | 12 | 270 | — | 199 | 17 | 17 | 933 |
| | | | | | | | | | | | thousand barrels per day |
| Natural gas liquids | | | | | | | | | | | |
| 2017 | 6 | — | 56 | — | 10 | 10 | — | — | 2 | 2 | 85 |
| 2016 | 6 | 4 | 56 | — | 8 | 5 | — | — | 3 | 3 | 82 |
| 2015 | 7 | 5 | 56 | — | 11 | 7 | — | 1 | 3 | 3 | 88 |
| | | | | | | | | | | | million cubic feet per day |
| Natural gas ^g | | | | | | | | | | | |
| 2017 | 182 | — | 1,659 | 9 | 1,936 | 949 | — | 371 | 783 | 783 | 5,889 |
| 2016 | 170 | 82 | 1,656 | 10 | 1,689 | 513 | — | 363 | 820 | 820 | 5,302 |
| 2015 | 155 | 111 | 1,528 | 10 | 1,922 | 589 | — | 380 | 801 | 801 | 5,495 |
| Equity-accounted entities (BP share) | | | | | | | | | | | |
| | | | | | | | | | | | thousand barrels per day |
| Crude oil ^f | | | | | | | | | | | |
| 2017 | — | 31 | — | — | 63 | 1 | 905 | 99 | — | — | 1,099 |
| 2016 | — | 7 | — | — | 65 | — | 840 | 102 | — | — | 1,015 |
| 2015 | — | — | — | — | 68 | — | 809 | 97 | — | — | 974 |
| | | | | | | | | | | | thousand barrels per day |
| Natural gas liquids | | | | | | | | | | | |
| 2017 | — | 2 | — | — | — | 6 | 4 | — | — | — | 12 |
| 2016 | — | — | — | — | 1 | 4 | 4 | — | — | — | 8 |
| 2015 | — | — | — | — | 3 | 3 | 4 | — | — | — | 10 |
| | | | | | | | | | | | million cubic feet per day |
| Natural gas ^g | | | | | | | | | | | |
| 2017 | — | 53 | — | — | 418 | 77 | 1,308 | — | — | — | 1,855 |
| 2016 | — | 12 | — | — | 449 | 18 | 1,279 | 15 | — | — | 1,773 |

2015 — — — — 435 — 1,195 21 — 1,651

Production excludes royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^a Because of rounding, some totals may not exactly agree with the sum of their component parts.

^b Amounts reported for Russia include BP's share of Rosneft worldwide activities, including insignificant amounts outside Russia.

^c Production volume recognition methodology for our Technical Service Contract arrangement in Iraq was simplified in 2016 to exclude the impact of oil price movements on lifting imbalances. A minor adjustment has been made to comparative periods.

^d All of the oil and liquid production from Canada is bitumen.

^e Crude oil includes condensate.

^f Natural gas production excludes gas consumed in operations.

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Operational and statistical information – continued

Productive oil and gas wells and acreage

The following tables show the number of gross and net productive oil and natural gas wells and total gross and net developed and undeveloped oil and natural gas acreage in which the group and its equity-accounted entities had interests as at 31 December 2017. A ‘gross’ well or acre is one in which a whole or fractional working interest is owned, while the number of ‘net’ wells or acres is the sum of the whole or fractional working interests in gross wells or acres. Productive wells are producing wells and wells capable of production. Developed acreage is the acreage within the boundary of a field, on which development wells have been drilled, which could produce the reserves; while undeveloped acres are those on which wells have not been drilled or completed to a point that would permit the production of commercial quantities, whether or not such acres contain proved reserves.

| | Europe | | North America | | South America | Africa | Asia | Russia ^a | Australasia ^b | | Total ^b |
|---|--------|----------------|---------------|-----------------------|---------------|--------|---------|---------------------|--------------------------|--------------------|--------------------|
| | UK | Rest of Europe | US | Rest of North America | | | | | Rest of Asia | | |
| Number of productive wells at 31 December 2017 | | | | | | | | | | | |
| Oil wells ^c | | | | | | | | | | | |
| – gross | 130 | 47 | 2,365 | 166 | 5,145 | 693 | 62,492 | 2,250 | 12 | 73,300 | |
| – net | 78 | 14 | 817 | 41 | 2,337 | 466 | 12,342 | 482 | 2 | 16,579 | |
| Gas wells ^d | | | | | | | | | | | |
| – gross | 76 | 1 | 23,376 | 268 | 982 | 194 | 478 | 86 | 68 | 25,529 | |
| – net | 34 | — | 9,841 | 133 | 347 | 82 | 94 | 37 | 14 | 10,582 | |
| Oil and natural gas acreage at 31 December 2017 | | | | | | | | | | thousands of acres | |
| Developed | | | | | | | | | | | |
| – gross | 132 | 70 | 6,467 | 157 | 1,322 | 789 | 6,393 | 1,586 | 173 | 17,089 | |
| – net | 75 | 21 | 3,446 | 71 | 351 | 310 | 1,211 | 304 | 41 | 5,830 | |
| Undeveloped ^e | | | | | | | | | | | |
| – gross | 2,553 | 1,361 | 5,179 | 15,139 | 23,358 | 43,211 | 425,477 | 8,286 | 5,584 | 530,148 | |
| – net | 1,586 | 517 | 3,780 | 7,200 | 7,082 | 27,841 | 84,724 | 1,977 | 2,116 | 136,823 | |

^a Based on information received from Rosneft as at 31 December 2017.

^b Because of rounding, some totals may not exactly agree with the sum of their component parts.

^c Includes approximately 8,890 gross (1,731 net) multiple completion wells (more than one formation producing into the same well bore).

^d Includes approximately 2,827 gross (1,438 net) multiple completion wells. If one of the multiple completions in a well is an oil completion, the well is classified as an oil well.

^e Undeveloped acreage includes leases and concessions.

Net oil and gas wells completed or abandoned

The following table shows the number of net productive and dry exploratory and development oil and natural gas wells completed or abandoned in the years indicated by the group and its equity-accounted entities. Productive wells include wells in which hydrocarbons were encountered and the drilling or completion of which, in the case of exploratory wells, has been suspended pending further drilling or evaluation. A dry well is one found to be incapable of producing hydrocarbons in sufficient quantities to justify completion.

| | Europe | | North America | | South America | Africa | Asia | Russia | Australasia | | Total ^a |
|-------------|--------|----------------|---------------|-----------------------|---------------|--------|------|--------|--------------|------|--------------------|
| | UK | Rest of Europe | US | Rest of North America | | | | | Rest of Asia | | |
| 2017 | | | | | | | | | | | |
| Exploratory | | | | | | | | | | | |
| Productive | 2.8 | 0.1 | 1.5 | 1.2 | 3.2 | 2.6 | 9.4 | 1.4 | — | 22.2 | |
| Dry | 2.4 | — | — | — | — | 2.9 | — | 1.0 | — | 6.3 | |
| Development | | | | | | | | | | | |

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| | | | | | | | | | | |
|-------------|-----|-----|-------|-----|-------|------|-------|------|-----|-------|
| Productive | 2.5 | 0.5 | 124.0 | 8.0 | 103.7 | 16.5 | 282.7 | 43.6 | 1.1 | 582.6 |
| Dry | — | — | 0.5 | — | 1.6 | 2.1 | — | 0.8 | — | 5.0 |
| 2016 | | | | | | | | | | |
| Exploratory | | | | | | | | | | |
| Productive | 0.3 | 0.4 | 0.5 | — | 0.6 | 2.1 | 3.4 | 1.6 | — | 8.9 |
| Dry | 1.0 | 0.3 | 4.7 | — | — | 1.5 | — | 0.3 | — | 7.8 |
| Development | | | | | | | | | | |
| Productive | 3.4 | 1.4 | 145.6 | — | 99.8 | 20.2 | 88.5 | 55.2 | 0.5 | 414.6 |
| Dry | 0.8 | — | — | — | 0.6 | 2.0 | — | 1.0 | — | 4.4 |
| 2015 | | | | | | | | | | |
| Exploratory | | | | | | | | | | |
| Productive | — | — | 4.0 | — | 1.1 | 2.6 | 4.5 | — | — | 12.2 |
| Dry | — | — | — | — | 0.4 | 1.0 | — | — | 0.2 | 1.6 |
| Development | | | | | | | | | | |
| Productive | 1.6 | 0.4 | 235.6 | — | 143.1 | 20.7 | 91.4 | 51.2 | 0.9 | 544.7 |
| Dry | — | — | — | — | 2.3 | 1.3 | — | — | — | 3.5 |

^a Because of rounding, some totals may not exactly agree with the sum of their component parts.

Operational and statistical information – continued

Drilling and production activities in progress

The following table shows the number of exploratory and development oil and natural gas wells in the process of being drilled by the group and its equity-accounted entities as of 31 December 2017. Suspended development wells and long-term suspended exploratory wells are also included in the table.

| | Europe | North America | South America | Africa | Asia | | Australasia | Total ^a | | |
|---------------------|--------|-------------------|------------------|-----------------------------|------|--------|-----------------|--------------------|-----|-------|
| | UK | Rest of Europe | US | Rest of North America | | Russia | Rest of Asia | | | |
| At 31 December 2017 | | | | | | | | | | |
| Exploratory | | | | | | | | | | |
| Gross | 1.0 | — | 4.0 | — | 4.0 | 4.0 | — | 4.0 | — | 17.0 |
| Net | 0.3 | — | 2.6 | — | 0.6 | 2.1 | — | 4.0 | — | 9.6 |
| Development | | | | | | | | | | |
| Gross | 6.0 | 1.5 | 242.0 | — | 24.0 | 30.0 | — | 115.0 | 3.0 | 421.5 |
| Net | 2.3 | 0.4 | 113.6 | — | 7.8 | 18.2 | — | 22.6 | 0.5 | 165.4 |

^a Because of rounding, some totals may not exactly agree with the sum of their component parts.

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Pages 219-245 have been removed as they do not form part of BP's Annual Report on Form 20-F as filed with the SEC.

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| <u>277 Cautionary statement</u> | |

Selected financial information

This information, insofar as it relates to 2017, has been extracted or derived from the audited consolidated financial statements of the BP group presented on page 116. Note 1 to the financial statements includes details on the basis of preparation of these financial statements. The selected information should be read in conjunction with the audited financial statements and related notes elsewhere herein.

| | \$ million except per share amounts | | | | |
|---|-------------------------------------|---------|---------|---------|---------|
| | 2017 | 2016 | 2015 | 2014 | 2013 |
| Income statement data | | | | | |
| Sales and other operating revenues | 240,208 | 183,008 | 222,894 | 353,568 | 379,136 |
| Profit (loss) before interest and taxation | 9,474 | (430) | (7,918) | 6,412 | 31,769 |
| Finance costs and net finance expense relating to pensions and other post-retirement benefits | (2,294) | (1,865) | (1,653) | (1,462) | (1,548) |
| Taxation | (3,712) | 2,467 | 3,171 | (947) | (6,463) |
| Non-controlling interests | (79) | (57) | (82) | (223) | (307) |
| Profit (loss) for the year ^a | 3,389 | 115 | (6,482) | 3,780 | 23,451 |
| Inventory holding (gains) losses«, before tax | (853) | (1,597) | 1,889 | 6,210 | 290 |
| Taxation charge (credit) on inventory holding gains and losses | 225 | 483 | (569) | (1,917) | (60) |
| RC profit (loss)«for the year | 2,761 | (999) | (5,162) | 8,073 | 23,681 |
| Net (favourable) adverse impact of non-operating items« and fair value accounting effects«, before tax ^b | 3,730 | 6,746 | 15,067 | 8,234 | (9,244) |
| Taxation charge (credit) on non-operating items and fair value accounting effects | (325) | (3,162) | (4,000) | (4,171) | (1,009) |
| Underlying RC profit«for the year | 6,166 | 2,585 | 5,905 | 12,136 | 13,428 |
| Earnings per share ^c – cents | | | | | |
| Profit (loss) for the year ^a per ordinary share | | | | | |
| Basic | 17.20 | 0.61 | (35.39) | 20.55 | 123.87 |
| Diluted | 17.10 | 0.60 | (35.39) | 20.42 | 123.12 |
| RC profit (loss) for the year per ordinary share« | 14.02 | (5.33) | (28.18) | 43.90 | 125.08 |
| Underlying RC profit for the year per ordinary share« | 31.31 | 13.79 | 32.22 | 66.00 | 70.92 |
| Dividends paid per share – cents | 40.00 | 40.00 | 40.00 | 39.00 | 36.50 |
| – pence | 30.979 | 29.418 | 26.383 | 23.850 | 23.399 |
| Capital expenditure« ^d | | | | | |
| Organic capital expenditure« | 16,501 | 16,675 | N/A | N/A | N/A |
| Inorganic capital expenditure« | 1,339 | 777 | N/A | N/A | N/A |
| | 17,840 | 17,452 | 20,202 | 23,192 | 30,032 |
| Balance sheet data (at 31 December) | | | | | |
| Total assets | 276,515 | 263,316 | 261,832 | 284,305 | 305,690 |
| Net assets | 100,404 | 96,843 | 98,387 | 112,642 | 130,407 |
| Share capital | 5,343 | 5,284 | 5,049 | 5,023 | 5,129 |
| BP shareholders' equity | 98,491 | 95,286 | 97,216 | 111,441 | 129,302 |
| Finance debt due after more than one year | 55,491 | 51,666 | 46,224 | 45,977 | 40,811 |
| Net debt to net debt plus equity« | 27.4% | 26.8% | 21.6% | 16.7% | 16.2% |
| Ordinary share data ^e | Share million | | | | |
| Basic weighted average number of shares | 19,693 | 18,745 | 18,324 | 18,385 | 18,931 |
| Diluted weighted average number of shares | 19,816 | 18,855 | 18,324 | 18,497 | 19,046 |

^a Profit attributable to BP shareholders.

^b See pages 250 and 294 for further analysis of these items.

^c A reconciliation to GAAP information is provided on page 294.

^d From 2017 onwards we are reporting organic, inorganic and total capital expenditure on a cash basis which were previously reported on an accruals basis. This aligns with BP's financial framework and is now consistent with other

financial metrics used when comparing sources and uses of cash. An analysis of capital expenditure on a cash basis for 2015, 2014 and 2013 is not available.

^e The number of ordinary shares shown has been used to calculate the per share amounts.

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Additional information

Capital expenditure

\$ million

2017 2016 2015

Capital expenditure

Organic capital expenditure 16,501 16,675 N/A

Inorganic capital expenditure^a 1,339 777 N/A

17,840 17,452 20,202

\$ million

2017 2016 2015

Organic capital expenditure by segment

Upstream

US 2,999 3,415 N/A

Non-US 10,764 10,929 N/A

13,763 14,344 N/A

Downstream

US 809 774 N/A

Non-US 1,590 1,328 N/A

2,399 2,102 N/A

Other businesses and corporate

US 64 32 N/A

Non-US 275 197 N/A

339 229 N/A

16,501 16,675 N/A

Organic capital expenditure by geographical area

US 3,872 4,221 N/A

Non-US 12,629 12,454 N/A

16,501 16,675 N/A

^a 2017 includes amounts paid to acquire interests in Mauritania and Senegal and in the Zohr gas field in Egypt.

Non-operating items

Non-operating items are charges and credits included in the financial statements that BP discloses separately because it considers such disclosures to be meaningful and relevant to investors. They are items that management considers not to be part of underlying business operations and are disclosed in order to enable investors to understand better and evaluate the group's reported financial performance. An analysis of non-operating items is shown in the table below.

| | \$ million | | |
|--|-----------------|-----------------|------------------|
| | 2017 | 2016 | 2015 |
| Upstream | | | |
| Impairment and gain (loss) on sale of businesses and fixed assets ^{a b} | (563) | 2,391 | (1,204) |
| Environmental and other provisions | 1 | (8) | (24) |
| Restructuring, integration and rationalization costs ^c | (24) | (373) | (410) |
| Fair value gain (loss) on embedded derivatives | 33 | 32 | 120 |
| Other ^{b d} | (118) | (289) | (717) |
| | (671) | 1,753 | (2,235) |
| Downstream | | | |
| Impairment and gain (loss) on sale of businesses and fixed assets ^{a e} | 579 | 405 | 131 |
| Environmental and other provisions | (19) | (73) | (108) |
| Restructuring, integration and rationalization costs ^c | (171) | (300) | (607) |
| Fair value gain (loss) on embedded derivatives | — | — | — |
| Other | — | (56) | (6) |
| | 389 | (24) | (590) |
| Rosneft | | | |
| Impairment and gain (loss) on sale of businesses and fixed assets ^a | — | 62 | — |
| Environmental and other provisions | — | — | — |
| Restructuring, integration and rationalization costs ^c | — | — | — |
| Fair value gain (loss) on embedded derivatives | — | — | — |
| Other | — | (39) | — |
| | — | 23 | — |
| Other businesses and corporate | | | |
| Impairment and gain (loss) on sale of businesses and fixed assets ^a | (22) | — | (170) |
| Environmental and other provisions | (156) | (134) | (151) |
| Restructuring, integration and rationalization costs ^c | (72) | (90) | (71) |
| Fair value gain (loss) on embedded derivatives | — | — | — |
| Gulf of Mexico oil spill response ^f | (2,687) | (6,640) | (11,709) |
| Other ^d | 90 | (55) | (155) |
| | (2,847) | (6,919) | (12,256) |
| Total before interest and taxation | (3,129) | (5,167) | (15,081) |
| Finance costs ^f | (493) | (494) | (247) |
| Taxation credit (charge) on non-operating items ^g | 1,172 | 2,833 | 4,056 |
| Taxation - impact of US tax reform ^h | (859) | — | — |
| Total after taxation | (3,309) | (2,828) | (11,272) |

^a See Financial statements – Note 3 for further information on impairments.

^b 2016 includes a \$319-million exploration write-back relating to Block KG D6 in India. In addition, an impairment reversal of \$234 million was also recorded in relation to this block.

^c Restructuring charges are classified as non-operating items where they relate to an announced major group restructuring. A major group restructuring is a restructuring programme affecting more than one of the group's operating segments that is expected to result in charges of more than \$1 billion over a defined period. Following the Gulf of Mexico oil spill in 2010 and since the fall in oil prices in late 2014, major group restructuring programmes were initiated. The current restructuring programme, aimed at simplifying and improving the efficiency of operations across the group, commenced in the fourth quarter of 2014 and has

resulted in cumulative non-operating charges of \$2.6 billion to 31 December 2017, principally relating to redundancy costs.

2017 includes BP's share of an impairment reversal recognized by the Angola LNG equity-accounted entity, partially offset by other items. 2017 also includes the write-off of \$145 million in relation to the value ascribed to certain licences in the deepwater Gulf of Mexico as part of the accounting for the acquisition of upstream assets from Devon Energy in 2011. 2016 includes the write-off of \$334 million in relation to the value ascribed to the licence in Brazil as part of the accounting for the acquisition of upstream assets from Devon Energy in 2011. 2015 principally relates to BP's share of impairment losses recognized by equity-accounted entities.

^e 2017 primarily reflects the disposal of our shareholding in the SECCO joint venture.

^f See Financial statements – Note 2 for further details regarding costs relating to the Gulf of Mexico oil spill.

^g 2017 includes the tax effect of the increase in the provision in the fourth quarter for business economic loss and other claims associated with the Deepwater Horizon Court Supervised Settlement Program (DHCSSP) at the new US tax rate.

^h In 2017 the US tax reform reduced the US federal corporate income tax rate from 35% to 21%, effective from 1 January 2018. The impact disclosed has been calculated as the change in deferred tax balances at 31 December 2017, excluding the increase in the provision in the fourth quarter for business economic loss and other claims associated with the DHCSSP, which arises following the reduction in the tax rate. The impact of the US tax reform has been treated as a non-operating item because it is not considered to be part of underlying business operations, has a material impact upon the reported result and is substantially impacted by Gulf of Mexico oil spill charges, which are also treated as non-operating items. Separate disclosure is considered meaningful and relevant to investors.

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Liquidity and capital resources

Financial framework

BP's financial framework sets a number of parameters in support of growing shareholder value, distributions and returns, while maintaining a strong balance sheet. BP's objective over time is to grow sustainable free cash flow« through a combination of operating cash flow« growth and capital discipline, in service of growing shareholder distributions over the long term.

Following the strong progress made in 2017 in rebalancing organic sources and uses of cash flow«, we recommenced share buybacks during the fourth quarter of 2017, with the intent to offset any ongoing dilution from the scrip dividend programme over time. The shape of the programme will not necessarily match the dilution on a quarterly basis, but will reflect the ongoing judgement of factors including changes in the environment, the underlying performance of the business, the outlook for the group financial framework, and other market factors which may vary quarter to quarter.

We expect operating cash flow excluding amounts relating to the Gulf of Mexico oil spill to cover organic capital expenditure« of \$15-16 billion and the full dividend« (including scrip) in 2018 at around \$50 per barrel. Looking further out, this balancing point is expected to steadily reduce to \$35-40 per barrel by 2021, with organic capital expenditure in a range of \$15-17 billion, and not exceeding \$17 billion in any one year. In a constant price environment, surplus organic free cash flow is expected to grow and be used to ensure the right balance between deleveraging the balance sheet, growing distributions and disciplined investment, depending on the context and outlook at the time.

Gulf of Mexico oil spill payments are expected to be just over \$3 billion in 2018, stepping down to around \$2 billion in 2019 and around \$1 billion per annum thereafter, with divestment proceeds« of around \$2-3 billion per annum. We continue to target a gearing« band of 20-30%, while maintaining strong liquidity and debt market access.

Return on average capital employed« is targeted to improve from 5.8%^a in 2017 to over 10% by 2021 (at \$55 per barrel real), as we continue to grow our underlying business.

^a Nearest GAAP equivalent measures: Numerator – Profit attributable to BP shareholders \$3.4 billion; Denominator – Average capital employed \$159.4 billion.

Dividends and other distributions to shareholders

The dividend is determined in US dollars, the economic currency of BP, and the dividend level is regularly reviewed by the board. The quarterly dividend was 10 cents per share in 2017, the same as 2016.

The total dividend distributed to BP shareholders in 2017 was \$7.9 billion (2016 \$7.5 billion). Shareholders have the option to receive a scrip dividend in place of receiving cash. In 2017 the total dividend paid in cash was \$6.2 billion (2016 \$4.6 billion).

Details of share repurchases to satisfy the requirements of certain employee share-based payment plans are set out on page 286. As noted above, a share buyback programme to offset the dilutive impact of the scrip dividend recommenced in the fourth quarter of 2017 with 51 million ordinary shares at a cost of \$343 million, including fees and stamp duty.

Financing the group's activities

The group's principal commodities, oil and gas, are priced internationally in US dollars. Group policy has generally been to minimize economic exposure to currency movements by financing operations with US dollar debt. Where debt is issued in other currencies, including euros, it is generally swapped back to US dollars using derivative contracts, or else hedged by maintaining offsetting cash positions in the same currency. The cash balances of the group are mainly held in US dollars or swapped to US dollars and holdings are well-diversified to reduce concentration risk. The group is not, therefore, exposed to significant currency risk regarding its cash or borrowings. Also see Risk factors on page 57 for further information on risks associated with prices and markets and Financial statements – Note 27.

The group's gross debt at 31 December 2017 amounted to \$63.2 billion (2016 \$58.3 billion). Of the total gross debt, \$7.7 billion is classified as short term at the end of 2017 (2016 \$6.6 billion). See Financial statements – Note 24 for more information on the short-term balance. Net debt« was \$37.8 billion at the end of 2017, an increase of \$2.3 billion from the 2016 year-end position of \$35.5 billion. The ratio of gross debt to gross debt plus equity at

31 December 2017 was 38.6% (2016 37.6%). The ratio of net debt to net debt plus equity« was 27.4% at the end of 2017 (2016 26.8%). See Financial statements – Note 25 for gross debt, which is the nearest equivalent measure on an IFRS basis, and for further information on net debt.

Cash and cash equivalents of \$25.6 billion at 31 December 2017 (2016 \$23.5 billion) are included in net debt. We manage our cash position to ensure the group has adequate cover to respond to potential short-term market illiquidity, and expect to maintain a robust cash position.

The group also has undrawn committed bank facilities of \$7.6 billion (see Financial statements – Note 27 for more information).

We believe that the group has sufficient working capital for foreseeable requirements, taking into account the amounts of undrawn borrowing facilities and levels of cash and cash equivalents, and its ongoing ability to generate cash. Standard & Poor's Ratings' long-term credit rating for BP is A- (stable outlook) and the Moody's Investors Service rating is A1 (positive outlook).

The group's sources of funding, its access to capital markets and maintaining a strong cash position are described in Financial statements – Note 23 and Note 27. Further information on the management of liquidity risk and credit risk, and the maturity profile and fixed/floating rate characteristics of the group's debt are also provided in Financial statements – Note 24 and Note 27.

Off-balance sheet arrangements

At 31 December 2017, the group's share of third-party finance debt of equity-accounted entities was \$18.0 billion (2016 \$14.6 billion). These amounts are not reflected in the group's debt on the balance sheet. The group has issued third-party guarantees under which amounts outstanding, incremental to amounts recognized on the balance sheet, at 31 December 2017 were \$656 million (2016 \$309 million) in respect of liabilities of joint ventures«and associates«and \$382 million (2016 \$370 million) in respect of liabilities of other third parties. Of these amounts, \$645 million (2016 \$298 million) of the joint ventures and associates guarantees relate to borrowings and for other third-party guarantees, \$350 million (2016 \$338 million) relate to guarantees of borrowings. Details of operating lease commitments, which are not recognized on the balance sheet, are shown in the table below and provided in Financial statements – Note 26.

The information above contains forward-looking statements, which by their nature involve risk and uncertainty because they relate to events and depend on circumstances that will or may occur in the future and are outside the control of BP. You are urged to read the Cautionary statement on page 277 and Risk factors on page 57, which describe the risks and uncertainties that may cause actual results and developments to differ materially from those expressed or implied by these forward-looking statements.

Contractual obligations

The following table summarizes the group's capital expenditure commitments for property, plant and equipment at 31 December 2017 and the proportion of that expenditure for which contracts have been placed.

| | \$ million | | | | | | |
|------------------------|------------|--------|-------|-------|-------|-------|---------------------|
| | Total | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 and thereafter |
| Capital expenditure | | | | | | | |
| Committed | 28,295 | 13,449 | 7,120 | 3,509 | 1,480 | 1,040 | 1,697 |
| of which is contracted | 11,340 | 7,384 | 2,562 | 923 | 178 | 75 | 218 |

Capital expenditure is considered to be committed when the project has received the appropriate level of internal management approval. For joint operations«, the net BP share is included in the amounts above.

In addition, at 31 December 2017, the group had committed to capital expenditure relating to investments in equity-accounted entities amounting to \$1,724 million. Contracts were in place for \$1,451 million of this total.

The following table summarizes the group's principal contractual obligations at 31 December 2017, distinguishing between those for which a liability is recognized on the balance sheet and those for which no liability is recognized. Further information on borrowings is given in Financial statements – Note 24 and more information on operating leases is given in Financial statements – Note 26.

| | \$ million | | | | | | |
|--|------------|--------|--------|--------|--------|--------|---------------------|
| | Total | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 and thereafter |
| Expected payments by period under contractual obligations | | | | | | | |
| Balance sheet obligations | | | | | | | |
| Borrowings ^a | 70,641 | 9,291 | 8,766 | 8,296 | 7,789 | 8,791 | 27,708 |
| Finance lease future minimum lease payments ^b | 1,351 | 92 | 102 | 93 | 91 | 89 | 884 |
| Decommissioning liabilities ^c | 18,111 | 433 | 253 | 173 | 119 | 212 | 16,921 |
| Environmental liabilities ^c | 1,550 | 268 | 264 | 218 | 180 | 134 | 486 |
| Gulf of Mexico oil spill liabilities ^d | 18,918 | 2,089 | 1,347 | 1,234 | 1,208 | 1,205 | 11,835 |
| Pensions and other post-retirement benefits ^e | 21,166 | 1,192 | 1,605 | 1,595 | 1,482 | 1,174 | 14,118 |
| | 131,737 | 13,365 | 12,337 | 11,609 | 10,869 | 11,605 | 71,952 |
| Off-balance sheet obligations | | | | | | | |
| Operating lease future minimum lease payments ^f | 13,970 | 2,969 | 2,309 | 1,777 | 1,255 | 1,046 | 4,614 |
| Unconditional purchase obligations ^g | 154,211 | 80,400 | 17,030 | 9,675 | 8,381 | 6,081 | 32,644 |
| | 168,181 | 83,369 | 19,339 | 11,452 | 9,636 | 7,127 | 37,258 |
| Total | 299,918 | 96,734 | 31,676 | 23,061 | 20,505 | 18,732 | 109,210 |

^a Expected payments include interest totalling \$8,269 million (\$1,703 million in 2018, \$1,485 million in 2019, \$1,273 million in 2020, \$1,070 million in 2021, \$855 million in 2022 and \$1,883 million thereafter).

^b Expected payments include interest totalling \$695 million (\$54 million in 2018, \$52 million in 2019, \$48 million in 2020, \$44 million in 2021, \$39 million in 2022 and \$458 million thereafter).

^c The amounts are undiscounted.

^d The amounts presented are undiscounted. Gulf of Mexico oil spill liabilities are included in the group balance sheet, on a discounted basis, within other payables. See Financial statements – Note 2 for further information.

^e Represents the expected future contributions to funded pension plans and payments by the group for unfunded pension plans and the expected future payments for other post-retirement benefits.

The future minimum lease payments are before deducting related rental income from operating sub-leases. In the case of an operating lease entered into solely by BP as the operator of a joint operation, the amounts shown in the table represent the net future minimum lease payments, after deducting amounts reimbursed, or to be reimbursed, by

^f joint operation partners. Where BP is not the operator of a joint operation, BP's share of the future minimum lease payments are included in the amounts shown, whether BP has co-signed the lease or not. Where operating lease costs are incurred in relation to the hire of equipment used in connection with a capital project, some or all of the cost may be capitalized as part of the capital cost of the project.

^g

Represents any agreement to purchase goods or services that is enforceable and legally binding and that specifies all significant terms (such as fixed or minimum purchase volumes, timing of purchase and pricing provisions). Agreements that do not specify all significant terms, or that are not enforceable, are excluded. The amounts shown include arrangements to secure long-term access to supplies of crude oil, natural gas, feedstocks and pipeline systems. In addition, the amounts shown for 2018 include purchase commitments existing at 31 December 2017 entered into principally to meet the group's short-term manufacturing and marketing requirements. The price risk associated with these crude oil, natural gas and power contracts is discussed in Financial statements – Note 27.

The following table summarizes the nature of the group's unconditional purchase obligations.

| | | \$ million | | | | | | |
|---|---------|------------------------|--------|-------|-------|-------|--------|----------------|
| | | Payments due by period | | | | | | |
| Unconditional purchase obligations | Total | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | and thereafter |
| Crude oil and oil products | 76,884 | 56,985 | 7,114 | 3,973 | 3,746 | 1,945 | 3,121 | |
| Natural gas | 27,685 | 14,846 | 4,734 | 2,613 | 1,938 | 1,622 | 1,932 | |
| Chemicals and other refinery feedstocks | 5,548 | 3,088 | 1,819 | 285 | 82 | 77 | 197 | |
| Power | 4,464 | 2,610 | 965 | 283 | 151 | 99 | 356 | |
| Utilities | 539 | 183 | 117 | 89 | 37 | 23 | 90 | |
| Transportation | 20,426 | 1,264 | 947 | 1,095 | 1,314 | 1,277 | 14,529 | |
| Use of facilities and services | 18,665 | 1,424 | 1,334 | 1,337 | 1,113 | 1,038 | 12,419 | |
| Total | 154,211 | 80,400 | 17,030 | 9,675 | 8,381 | 6,081 | 32,644 | |

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Upstream analysis by region

Our upstream operations are set out below by geographical area, with associated significant events for 2017. BP's percentage working interest in oil and gas assets is shown in brackets. Working interest is the cost-bearing ownership share of an oil or gas lease. Consequently, the percentages disclosed for certain agreements do not necessarily reflect the percentage interests in proved reserves and production.

In addition to exploration, development and production activities, our upstream business also includes midstream and LNG supply activities. Midstream activities involve the ownership and management of crude oil and natural gas pipelines, processing facilities and export terminals, LNG processing facilities and transportation, and our natural gas liquids (NGLs) processing business.

Our LNG supply activities are located in Abu Dhabi, Angola, Australia, Indonesia and Trinidad. We market around 20% of our LNG production using BP LNG shipping and contractual rights to access import terminal capacity in the liquid markets of Italy (in Rovigo), Spain (in Bilbao), the UK (via the Isle of Grain) and the US (via Cove Point), with the remainder marketed directly to customers. LNG is supplied to customers in markets including Argentina, Chile, China, the Dominican Republic, India, Israel, Japan, Kuwait, South Korea and Taiwan.

Europe

BP is active in the North Sea and the Norwegian Sea. Our activities focus on maximizing recovery from existing producing fields and new field developments. BP's production in 2017 was generated from three key areas: the Shetland area - comprising the Clair, Foinaven, Magnus, and Schiehallion fields; the central area - comprising the Andrew, Bruce, ETAP, Keith, Kinnoull and Rhum fields; and Norway, through our equity accounted 30% interest in Aker BP established in 2016 (see below).

In January 2017 we announced that we had agreed to sell 25% of our 100% stake in Magnus, a 25% interest in a number of associated pipelines and a 3% interest in the Sullom Voe Terminal (SVT) on Shetland to EnQuest. BP also agreed to transfer operatorship of these assets to EnQuest. The sale price of \$85 million is expected to be met by EnQuest from future cash flows from the assets, without any upfront payment to BP. The transfer completed on 1 December. Under the terms of the agreement, EnQuest has an option, exercisable between 1 July 2018 and 15 January 2019, to purchase BP's remaining 75% interest in Magnus, a further 9% interest in SVT and the remainder of BP's interests in the associated pipelines for a consideration of \$300 million.

We were awarded 25 blocks or part blocks in the UK's 29th Offshore Licensing Round in March 2017, representing the largest acreage award for BP in the North Sea since the late 1990s. The licence award includes three exploration wells.

We announced in April that we had agreed to sell our Forties Pipeline System (FPS) business (BP 100%) to INEOS for an upfront cash consideration at the economic date of \$125 million, adjusted for net cash flows in the interim period, followed by contingent payments between 2022 and 2024 of up to a further \$125 million. FPS is an integrated oil and NGLs transportation and processing system that handles production from around 80 fields in the central North Sea. As a result of this decision to sell, an impairment charge of \$387 million was recorded. The sale completed on 31 October. BP's existing transportation and processing rights in the system are not affected by the divestment. Production from the redeveloped Schiehallion area started in May, following completion of the multi-billion-dollar Quad 204 project, designed to extend the life of the fields and unlock further resources. The Schiehallion area comprises the Schiehallion (BP 33%) and Loyal (BP 50%) fields. The project included the construction and installation of a floating, production, storage and offloading (FPSO) vessel, a major upgrade and replacement of subsea facilities and a continuous drilling programme of up to 20 new wells to enable full development of the associated reserves.

We continued to progress development at the Maersk-operated Culzean field (BP 32%) during the year. The installation of the gas export pipeline and fixed jackets was completed in 2017, with development drilling ongoing. First production is expected in 2019. The field will be developed with three fixed platforms and a floating storage unit.

Aker BP announced an agreement to acquire Hess Norge AS in October. On completion of the transaction in December, Aker BP became the sole owner of the Valhall and Hod fields but subsequently sold a 10% interest in each of these fields to Pandion Energy AS. BP subscribed for additional new shares in Aker BP as part of the financing of

the acquisition of Hess Norge AS, and remains an owner of 30% of the issued share capital in Aker BP.

In November, we announced that we had agreed to sell a package of our interests in the Bruce assets in the North Sea to Serica Energy plc. We currently operate the assets, which comprise the Bruce (BP 37%), Keith (BP 35%) and Rhum (BP 50%) fields, three bridge-linked platforms and associated subsea infrastructure. Under the terms of the agreement, Serica will pay BP an upfront payment of £12.8 million (equivalent to \$17.2 million), a share of cash flows over the next four years, a consideration equivalent to 30% of our post-tax decommissioning costs and several contingent payments dependent on future asset performance and product prices. Overall, we expect to receive payments of around £300 million (equivalent to \$403 million), the majority of which will be received over the next four years. Subject to the receipt of regulatory and other third-party approvals, we expect to complete the sale and transfer of operatorship in the third quarter of 2018.

The Clair field (BP 29% and operator) is the largest oilfield on the UK Continental Shelf. Production began at the field, located 75 kilometres west of the Shetland Islands, in 2005. Its physical size dictates development via a phased approach, with Clair Ridge as the second phase of development. This has involved the construction and installation of two new bridge-linked platforms, the legs of which were installed in 2013. The final topside modules were safely installed in 2016, completing the construction phase. Commissioning offshore is well under way, with first oil expected in late 2018.

In September the US Office of Foreign Asset Control renewed BP's licence permitting certain US persons and US owned and controlled companies to support Rhum activities in compliance with US primary sanctions. The licence expires on 30 September 2018. The Rhum field is owned by BP (50%) and the Iranian Oil Company (IOC, 50%) under a joint operating agreement. EU sanctions and certain US secondary sanctions in respect of Iran have been lifted or suspended as part of the Joint Comprehensive Plan of Action. See International trade sanctions on page 273. During the year an exploration write-off of \$178 million relating to the Southern North Sea Carboniferous appraisal programme, including the Ravenspurn North Deep well, was recognized. There were two exploration discoveries in 2017, namely Achmelvich and Capercaillie, both of which are currently being evaluated.

North America

Our upstream activities in North America are located in five areas: deepwater Gulf of Mexico, the Lower 48 states, Alaska, Canada and Mexico.

BP has around 260 lease blocks in the deepwater Gulf of Mexico, and we operate four production hubs.

We announced the start-up of the South Expansion major project at our Thunder Horse platform in January 2017.

Three producing wells came online in 2017 and the final well followed in early 2018. The project scope includes a new subsea production system two miles to the south of the existing Thunder Horse platform. The system is a collection of four wells connected to the platform by two lines installed on the seabed.

During the year, a \$68-million charge was recognized for the West Capricorn rig while it was warm stacked awaiting transfer to other projects. The rig returned to drilling operations in the fourth quarter of 2017.

In December BP completed the disposal of 26.5% of its 27.5% non-operated interest in the Perdido Regional Host to AL-Perdido Holdings LLC. Perdido is a regional floating production hub for three fields including Great White (BP 33%) in the Gulf of Mexico.

In March 2017, we were awarded three leases in the OCS Central Sale 247, in Mississippi Canyon Block 867 and Green Canyon Blocks 738 and 870.

We were also awarded three leases in the Gulf of Mexico Wide Sale 249, in Green Canyon Block 451 and Mississippi Canyon Blocks 820 and 864 in August.

During the year exploration write-offs totalling \$213 million were recognised, the most significant being \$148 million in connection with the expiration of the Gila lease.

- See also Financial statements Note 1 for further information on exploration leases.

The US Lower 48 onshore business has significant operated and non-operated activities across Arkansas, Colorado, New Mexico, Oklahoma, Texas and Wyoming producing natural gas, oil, NGLs and condensate. It has a 1.4 billion boe proved reserve base as at 31 December 2017, predominantly in unconventional reservoirs (tight gas, shale gas and coalbed methane). This resource spans 3.1 million net developed acres and has approximately 9,400 operated gross wells, with daily net production around 300mboe/d.

Since the beginning of 2015, our US Lower 48 onshore business has operated as a separate business while remaining part of our Upstream segment. It has its own governance, systems and processes, and was established to increase competitive performance through swift decision-making and innovation, while maintaining BP's commitment to safe, reliable and compliant operations.

In East Texas the Haynesville and Bossier development is underway. This material development increased BP's net natural gas production for the fourth quarter of 2017 in the East Business Unit by around 50% compared to the previous year.

In August, we announced that a natural gas well in the Mancos Shale, New Mexico (BP 100%) had been brought on line. We believe the field has the potential to be a significant new source of US gas supply.

In the fourth quarter an impairment charge of \$321 million was recognized as a result of changes in reserves estimates.

BP's onshore US crude oil and product pipelines and related transportation assets are included in the Downstream segment.

In Alaska, BP Exploration (Alaska) Inc. (BPXA) operated nine North Slope oilfields in the Greater Prudhoe Bay area at the end of the year. Our focus continues to be on safe and reliable operations, renewing Prudhoe Bay infrastructure and minimizing oil production decline. For the past three years BP has successfully combated decline at Prudhoe Bay through wellwork and improved operating field efficiencies, with production being largely maintained. Infrastructure renewal activities in 2017 included compressor replacements, fire and gas system upgrades, safety system upgrades, pipeline renewal, facility piping upgrades and facility-siting projects. BP also owns significant interests in eight producing fields operated by others, as well as a non-operating interest in the Liberty prospect.

The Alaska LNG project concept includes a planned three-train North Slope gas treatment plant, approximately 800 miles of pipeline to tidewater and a three-train liquefaction facility, with an estimated capacity of 3 billion cubic feet per day (bcf/d) (up to 20 million tonnes per annum) supplied from the Prudhoe Bay and Point Thomson fields. In April, the Alaska Gasline Development Corporation (AGDC), a state entity which has led the project since December 2016, submitted a formal application for an authorization to site, construct, and operate an integrated LNG project.

AGDC also conducted extensive marketing activities in Asia in 2017 including signing a memorandum of understanding with the Korea Gas Corporation (KOGAS), signing a joint development agreement with China Petroleum and Chemical Corporation (Sinopec), Bank of China, and the Chinese Investment Corporation, signing a memorandum of understanding with PetroVietnam and signing a Letter of Intent with Tokyo Gas Company. In January 2017 BP

Alaska LNG LLC (BPAL) executed a co-operation agreement with AGDC detailing BPAL's commitment to helping the state further develop Alaska LNG. This agreement has been extended to 30 June 2018.

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The Prudhoe Bay oil field (BP 26% and operator) on Alaska's North Slope reached 40 years of production in 2017, a milestone that highlights its important contribution to US energy security and the economy of the state. Since the field began production in 1977, it has recovered more than 12.5 billion barrels of oil. The original estimated recovery for Prudhoe Bay was 9.6 billion barrels, with an additional 3 billion barrels so far unlocked through innovations in oilfield technology. Prudhoe Bay remains the third largest oil field in the US on a proved reserves basis.

BP Pipelines (Alaska) Inc. (BPPA) owns a 49% interest in the Trans-Alaska Pipeline System (TAPS). TAPS transports crude oil from Prudhoe Bay on the Alaska North Slope to the port of Valdez in south-east Alaska. In April 2012 Unocal (1.37%) gave notice to the other TAPS owners of their intention to withdraw as an owner of TAPS. The remaining owners and Unocal have not yet reached agreement regarding the terms for the transfer of Unocal's interest in TAPS.

In 2017, the parties involved in TAPS tariff matters at the Federal Energy Regulatory Commission (FERC) and the Regulatory Commission of Alaska (RCA) reached an agreement to settle all challenges pending before FERC involving TAPS interstate rates for the years 2009-2015 and establish a mechanism for calculating interstate rate ceilings for TAPS for the period from 2016 through 2021, as well as subsequent years unless otherwise terminated. The agreement resolves all challenges pending before the RCA involving TAPS intrastate rates from 2008 to the present, and establish intrastate rate ceilings for the future through 30 June 2019. RCA approval was granted in January 2018 and FERC approval in February 2018. Once all appeal periods have run, if the agreements are approved, the parties will proceed with implementing the settlement agreements, including issuing tariff refunds.

Implementation will result in production tax and royalty payments to the State of Alaska while releasing some previously accrued liability provisions within BP Alaska.

In Canada, BP is focused on oil sands development as well as pursuing offshore exploration opportunities. We utilize in-situ steam-assisted gravity drainage (SAGD) technology in our oil sands developments, which uses the injection of steam into the reservoir to warm the bitumen so that it can flow to the surface through producing wells. We hold interests in three oil sands lease areas through the Sunrise Oil Sands and Terre de Grace partnerships and the Pike Oil Sands joint operation«. In addition, we have significant offshore exploration licences in Nova Scotia, Newfoundland and Labrador and the Canadian Beaufort Sea.

In Mexico, we have interests in two exploration joint ventures« in the Saline Basin with Statoil and Total, Block 1 (BP 33% and operator) and Block 3 (BP 33%). Both properties have submitted an exploration plan to Comisión Nacional de Hidrocarburos (CNH), the Mexican regulator, and approval was received in March 2018.

South America

BP has upstream activities in Brazil and Trinidad & Tobago, and through Pan American Energy Group (PAEG), in Argentina and Bolivia.

In Brazil BP has interests in 21 exploration concessions across five basins.

In October, we won two licences in the third Pre-Salt Bid Round in Brazil, the Alto De Cabo Frio Central block (BP 50%), and the Peroba block (BP 40%).

In the North Campos basin, we continue work on the BM-C-32 (Itaipu) and BM-C-30 (Wahoo) projects with the potential for a joint development or tie back between them. A decision to move into front-end engineering for a potential long-term test is planned for November 2018.

Following the licence extension to 2019 which was approved in 2016, seismic processing and prospect inventory development progressed in 2017 in Block BAR-M-346 in the Barreirinhas basin.

BP continues to progress the preparatory activities for drilling exploration wells in the Foz do Amazonas Basin, with a BP-operated well scheduled to spud in 2020. An extension request was submitted to the Brazilian National Petroleum Agency (ANP) regarding BP-operated block FZA-M-59. We also expect drilling activity to commence in 2019 on our other non-operated interests in Foz de Amazonas (BP 30%).

In the South Campos basin, following approval of the revised appraisal plan by ANP in 2016, in Block BM-C-35 we have postponed the decision to move into Appraisal Plan Stage II and commit to an additional pre-salt well or relinquish the area, until October 2018.

In Argentina and Bolivia BP conducts activity through PAEG, which also has activities in Mexico.

In December, we confirmed that the formation of Pan American Energy Group (PAEG) had completed. The new company, owned by BP (50%) and Bridas Corporation (50%), is now the largest privately owned integrated energy company operating in Argentina. PAEG was formed in a cash free transaction by the combination of Pan American Energy and Axion Energy (Axion). Pan American Energy had been owned 60:40 by BP and Bridas Corporation and Axion had been wholly-owned by Bridas Corporation.

In Trinidad & Tobago BP holds exploration and production licences and production-sharing agreements (PSAs) covering 1.8 million acres offshore of the east and north-east coast. Facilities include 14 offshore platforms and two onshore processing facilities. Production comprises gas and associated liquids.

BP also has a shareholding in the Atlantic LNG liquefaction plant, BP's shareholding averages 39% across four LNG trains with a combined capacity of 15 million tonnes per annum. We sell gas to each of the LNG trains, supplying 100% of the gas for train 1, 50% for train 2, 75% for train 3 and around 67% of the gas for train 4. All LNG from train 1 and most of the LNG from trains 2 and 3 is sold to third parties in the US and Europe under long-term contracts. We market the remaining equity LNG entitlement from trains 2, 3 and 4 to the US, UK, Spain and South America.

The Trinidad onshore compression project (BP 70%) started up in April. The facility is expected to improve production capacity by increasing production from low-pressure wells in BP's existing acreage in the Columbus Basin using an additional inlet compressor at the Point Fortin Atlantic LNG plant.

We announced the Savannah and Macadamia gas discoveries in June (both BP 70%). The Savannah exploration well was drilled east of the Juniper field into an untested fault block using a semi-submersible rig, and penetrated two hydrocarbon-bearing reservoirs. Based on the success of this well BP expects to develop these reservoirs through future tie-backs to the Juniper platform. The Macadamia well was drilled to test exploration and appraisal segments below the existing SEQB discovery south of the producing Cashima field. This discovery is expected to support a new platform in the future.

Also in June, we announced that development of the Angelin offshore gas project had been sanctioned. The project will involve construction of a new platform, BP's 15th offshore production facility, 60 kilometres off the south-east coast of Trinidad in water depths of approximately 65 metres. The development will include four wells, with gas from Angelin flowing to the Cassia B hub for processing via a new pipeline to the Serrette platform. Drilling is expected to start in late 2018 with first gas expected in 2019.

In August, we announced the start of production from our Juniper project. Juniper is BP's first subsea development in Trinidad and is expected to boost our gas production capacity by around 590 mmscf per day. The development produces gas from the Corallita and Lantana fields via the new Juniper platform, 80 kilometres off the south-east coast of Trinidad.

Africa

BP's upstream activities in Africa are located in Algeria, Angola, Côte d'Ivoire, Egypt, Libya, and Mauritania and Senegal.

In Algeria BP, Sonatrach and Statoil are partners in the In Salah (BP 33.15%) and In Amenas (BP 45.89%) projects that supply gas to the domestic and European markets.

- The Bourarhat production-sharing contract (PSC) expired in September 2014 and our exit concluded in 2017.

In December, BP and Statoil signed an extension agreement for the In Amenas PSC with Sonatrach, the Algerian state-owned energy company. The agreement has been submitted to the Algerian authorities for ratification.

In Angola, BP owns an interest in six major deepwater offshore licences and is operator in two of these, blocks 18 and 31, that are producing. We also have an equity interest in the Angola LNG plant (BP 13.6%).

In June, we announced that as part of our ongoing portfolio evaluation we would relinquish our 50% interest in block 24/11 offshore. The Katambi gas discovery made in 2014 has not been determined to be commercial. As a result of this, and other exploration write-offs, a total of \$729 million was recognized during the year.

In December, BP and Kosmos Energy (KE) announced that they had been awarded five new offshore oil blocks in Côte d'Ivoire, under agreements with the government of Côte d'Ivoire and the state oil company Société Nationale d'Opérations Pétrolières de la Côte d'Ivoire (PETROCI) (BP 45%, KE 45%, PETROCI 10%).

In Egypt, BP and its partners currently produce 10% of Egypt's liquids production and almost 40% of its gas production.

We announced the Qattameya discovery in March 2017, the third gas discovery in the North Damietta offshore concession in the East Nile Delta. Options to tie the discovery back to nearby infrastructure are being studied.

In 2017 exploration write-offs of \$368 million were recognized for a number of wells including GEB East, Mocha and Tarif Deep, as a result of unsuccessful exploration drilling and the relinquishment of exploration blocks.

BP announced the start-up of gas production from the Taurus and Libra fields in the West Nile Delta development (BP 82.75%) in May. This development comprises five fields across the North Alexandria and West Mediterranean Deepwater offshore blocks and is being developed as three separate projects to enable BP and its partners to accelerate gas production commitments to Egypt. All projects are expected to be onstream by 2019. Development of the Taurus and Libra fields were fast-tracked following approval in 2015. It is a subsea greenfield development including nine wells and 42 kilometre tieback to existing onshore processing facilities.

Also in May, development of the Baltim South West field was sanctioned. A dedicated mobile offshore production unit will be installed and tied back to existing infrastructure through a new offshore/onshore pipeline.

In February 2018, we announced the start-up of the Atoll field in the North Damietta concession following the drilling of three deepwater wells 950 metres below the water's surface. Early production first started in December before the field came fully on line in January.

In December, the first phase of well drilling operations at the Zohr gas field concluded and production has commenced. Production had reached 350 million cubic feet per day at year end. BP did not exercise the option to purchase an additional 5% interest in the field by the end of 2017. The final purchase consideration on the Zohr acquisition was \$564 million. During 2017 Rosneft completed the acquisition of a 30% stake in a concession agreement to develop the Zohr field.

In Libya, BP partners with the Libyan Investment Authority (LIA) in an exploration and production-sharing agreement (EPSA) to explore acreage in the onshore Ghadames and offshore Sirt basins (BP 85%). The EPSA continues to be in force majeure. BP wrote off all balances associated with the Libya EPSA in 2015.

In Mauritania and Senegal, BP has partnered with Kosmos Energy and has a 62% participating interest in the C-6, C-8, C-12 and C-13

exploration blocks in Mauritania and a 60% participating interest in the Cayar Profond and St Louis Profond exploration blocks in Senegal. Together these blocks cover approximately 33,000km². In addition to the existing blocks, the companies have agreed to co-operate in areas of mutual interest in offshore Mauritania, Senegal and the Gambia, with Kosmos acting as the exploration operator and BP as the development operator.

Under the terms of the agreements with Kosmos Energy, announced in December 2016, BP paid Kosmos cash bonuses of \$162 million on completion. BP will carry exploration and appraisal costs of \$228 million for Kosmos along with its development costs of \$533 million, which include front-end engineering and design studies. Kosmos will also receive a contingent bonus of up to \$2 per barrel for up to 1 billion barrels of liquids, as a production royalty, subject to a future liquids discovery and oil price. The Mauritania deal with Kosmos completed in December 2016 and the Senegal deal completed in February 2017.

BP and Kosmos Energy announced the Yakaar-1 gas discovery offshore Senegal in the Cayar Offshore Profond block in May. This followed the earlier exploration success that led to the Tortue discovery, where we completed a drill stem test in 2017.

In July, we completed a deal with Timis Corporation to acquire their 30% interest in the Cayar Profond and the St Louis Profond blocks, deepening our interest in these Senegal blocks.

We completed the acquisition of a 15% participating interest in the C-18 exploration block in Mauritania from Tullow in September. This block is now operated by Total.

In October, Kosmos Energy announced that the Hippocampe-1 exploration well, in the C-8 block was unsuccessful. As a result, an exploration write-off of \$69 million was recognized.

- In December, Kosmos Energy announced that the Lamantin-1 exploration well in block C-12 was unsuccessful. As a result, an exploration write-off of \$45 million was recognized.

In February 2018, Kosmos Energy announced that the Requin Tigre-1 well in the Saint Louis Profond block, offshore Senegal, was fully tested but did not encounter hydrocarbons.

In February 2018, the governments of Mauritania and Senegal signed an Inter-Government Cooperation Agreement (ICA) which will enable the development of the BP-operated Tortue/Ahmeyim gas project to continue to move towards a final investment decision. The ICA provides for development of the Tortue/Ahmeyim gas field through cross-border unitisation, with a 50%-50% initial split of resources and revenues and a mechanism for future equity redeterminations based on actual production and other technical data. The Tortue/Ahmeyim gas field is located offshore on the border between Mauritania and Senegal. BP has completed significant engineering design towards the project, an integrated gas value chain and near-shore liquefied natural gas (LNG) development which would export LNG to global markets as well as supplying gas to Senegal and Mauritania.

In Morocco, BP exited its final licence, the Essaouira offshore licence (BP 45%) in 2017. The majority of balances associated with the licence were written off in 2016, with the exception of a small payment for unfulfilled exploration commitments which was made in 2017.

Asia

BP has activities in Abu Dhabi, Azerbaijan, China, India, Iraq, Kuwait, Oman and Russia.

In China we have a 30% equity stake in the Guangdong LNG regasification terminal and trunkline project with a total storage capacity of 640,000m³. The project is supplied under a long-term contract with Australia's North West Shelf venture (BP 16.67%).

BP has two PSCs for shale gas exploration, development and production in the Neijiang-Dazu block and Rong Chang Bei block in the Sichuan basin, China. The two blocks, both in the exploration phase, cover a total area of approximately 2,500km². China National Petroleum Corporation (CNPC) is the operator. In 2017, the seismic acquisition programme was completed in the Neijiang–

Dazu block, and drilling activity continued to progress in the two blocks in the Sichuan basin.

In Azerbaijan, BP operates two PSAs, Azeri-Chirag-Gunashli (ACG) (BP 30.37%) and Shah Deniz (BP 28.83%) and also holds a number of other exploration leases.

In 2012 certain EU and US regulations concerning restrictive measures against Iran were issued, which impact the Shah Deniz joint venture in which Naftiran Intertrade Co Ltd (NICO), a subsidiary of the National Iranian Oil Company, holds a 10% interest. The EU sanctions and certain US secondary sanctions in respect of Iran have been

lifted or suspended as part of the Joint Comprehensive Plan of Action. For further information see International trade sanctions on page 273.

The Shah Deniz Stage 2 project and associated South Caucasus Pipeline expansion project are now substantially complete in terms of engineering, procurement, construction and commissioning, and remain on target for first gas delivery in 2018. We achieved a number of major project milestones in 2017, including the installation of both processing and utilities platforms offshore, installation of all processing facilities at the onshore terminal and completion of pipeline construction in Azerbaijan and Georgia.

In September, the joint development and PSA for the ACG fields was extended with the signing of an amended and restated PSA between the State Oil Company of the Republic of Azerbaijan (SOCAR) and the contractor parties. The renewed PSA has been ratified by the Azerbaijani parliament and was effective from 1 January 2018. It extends the PSA's term by 25 years to 2049 and includes an improved contractor parties' profit share at a fixed rate of 25%. Under the terms of the agreement, BP's interest changes from 35.78% to 30.37% from the agreement's effective date, with a bonus of \$1.46 billion (BP net), payable to the government of Azerbaijan in equal instalments over eight years.

Following signing of the PSA extension, BP and its partners approved the next stage of development of the Azeri-Central East project to examine the potential for a further production platform to be located between the existing Central Azeri and East Azeri platforms. A final investment decision on this project is anticipated in 2019. BP holds a 30.1% interest in and operates the Baku-Tbilisi-Ceyhan (BTC) oil pipeline. The 1,768-kilometre pipeline transports oil from the BP-operated ACG oilfield and gas condensate from the Shah Deniz gas field in the Caspian Sea, along with other third-party oil, to the eastern Mediterranean port of Ceyhan. The pipeline has a capacity of 1m mboe/d with an average throughput in 2017 of 694mboe/d.

BP is technical operator of, and currently holds a 28.83% interest in, the 693 kilometre South Caucasus Pipeline (SCP). The pipeline takes gas from Azerbaijan through Georgia to the Turkish border and has a capacity of 143mboe/d, with average throughput in 2017 of 125mboe/d. BP (as operator of Azerbaijan International Operating Company) also operates the Western Route Export Pipeline that transports ACG oil to Supsa on the Black Sea coast of Georgia, with an average throughput of 77mboe/d in 2017.

BP also holds a 12% interest in the Trans Anatolian Natural Gas Pipeline that will transport Shah Deniz gas across Turkey, and a 20% interest in the Trans Adriatic Pipeline that will take gas through Greece and Albania into Italy.

In Oman, BP operates the Khazzan field in block 61 (BP 60%).

In September, we announced the start of production from the Khazzan gas field ahead of schedule and under budget. Khazzan is located in block 61 which is operated by BP in partnership with Oman Oil Company Exploration and Production. Phase one of the Khazzan development is made up of 200 wells feeding into a two-train central processing facility. Production from this phase at year end had reached 0.3 billion cubic feet of gas per day (BP net). In 2016 BP signed an agreement to extend block 61 and unlock Phase two of the Khazzan development, known as Ghazeer. This is expected to add a further 0.5 billion cubic feet of gas per day, and the final investment decision is expected in early 2018.

In Abu Dhabi, BP holds an equity interest of 14.67% in the ADNOC Offshore concession (formerly ADMA) and a 10% interest in the ADNOC Onshore concession (formerly ADCO). We also have a 10%

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equity shareholding in ADNOC LNG (formerly ADGAS) that supplied approximately 5.6 million tonnes of LNG (263.6bcfe regasified) in 2017.

Our interest in the ADNOC Offshore concession expired in March 2018. Current production is approximately 670mb/d gross, with partners lifting according to equity participation. The concession, together with all related rights and obligations, has reverted back to the government of the Emirate of Abu Dhabi. Our interest in the ADNOC Onshore concession expires at the end of 2054.

In 2016 BP signed an enhanced technical service agreement for south and east Kuwait conventional oilfields, which includes the Burgan field, with Kuwait Oil Company. Implementation of the agreed 2017-2018 plan for the Burgan oil field is underway as planned.

In India, we have a 30% participating interest in two oil and gas PSAs and a 33.33% participating interest in one oil and gas PSA, all operated by Reliance Industries Limited (RIL). We also have a stake with RIL in a 50:50 joint venture (India Gas Solutions Private Limited) for the sourcing and marketing of gas in India.

In 2017 BP recorded a \$30-million impairment reversal and a \$56-million reversal of exploration write-offs due to increased confidence in the progress of the projects in Block KG D6. This fully reverses all previously booked impairments on the block.

In June, BP and its partners announced that they had taken an investment decision to progress development of the R-Series deepwater gas fields in Block KG D6 off the east coast of India. The R-Series fields will be developed as a subsea tieback to existing infrastructure in the block. The project is expected to come onstream in 2020 and is the first of three planned projects in Block KG D6 to be developed in an integrated manner. In October, field development plans for the Satellite Cluster and D55 developments were submitted for requisite approvals under the PSA.

In Iraq, BP holds a 47.6% working interest and is the lead contractor in the Rumaila technical service contract in southern Iraq. The technical services contract runs to December 2034. Rumaila is one of the world's largest oil fields, comprising five producing reservoirs. Our operations are not impacted by the continued instability and sectarian violence in the north and west of the country. Production as at year end 2017 was 61 mboe/d (BP net).

In January 2018, BP signed a Letter of Intent to support Iraq's North Oil Company with current operations and development plans for longer-term redevelopment of the Kirkuk field. This is an extension of a Letter of Intent signed in 2013.

In Russia, in addition to its 19.75% equity interest in Rosneft, BP holds a 20% interest in Taas-Yuryakh Neftegazodobycha (Taas), a joint venture with Rosneft that is developing the Srednebotuobinskoye oil and gas condensate field in East Siberia (see Rosneft on page 38 for further details). We also hold a 49% interest in Yermak Neftegaz LLC, another joint venture with Rosneft to conduct exploration in the West Siberian and Yenisei-Khatanga basins. Yermak Neftegaz LLC currently holds seven exploration and production licences. The venture is also carrying out further appraisal work on the Baikalovskoye field, an existing Rosneft discovery in the Yenisei-Khatanga area of mutual interest.

Australasia

BP has activities in Australia and Eastern Indonesia.

In Australia, BP is one of seven participants in the North West Shelf (NWS) venture, which has been producing LNG, pipeline gas, condensate, LPG and oil since the 1980s. Six partners (including BP) hold an equal 16.67% interest in the gas infrastructure and an equal 15.78% interest in the gas and condensate reserves, with a seventh partner owning the remaining 5.32%. BP also has a 16.67% interest in some of the NWS oil reserves and related infrastructure. The NWS venture is currently the largest single source supplier to the domestic market in Western Australia and one of the largest LNG export projects in the region, with five LNG trains in operation. BP's net share of the capacity of NWS LNG trains 1-5 is 2.7 million tonnes of LNG per year.

BP is also one of five participants in the Browse LNG venture (operated by Woodside) and holds a 17.33% interest.

Following the decision taken in March 2016 not to progress with the floating LNG development, the Browse joint venture participants continue to evaluate a range of alternative development options, and are expecting to select one in 2018.

We announced that production had commenced from the Persephone project on the North West Shelf (BP 16.67%) in August. The development comprises two subsea wells tied back to the existing North Rankin complex.

Following the cancellation of the Great Australian Bight project, the Ocean Great White rig is currently warm stacked. A number of options for its deployment or renegotiation of the contractual terms remain under review and are being worked actively with the rig operator.

In Papua Barat, Eastern Indonesia, BP operates the Tangguh LNG plant (BP 40.22%). The asset comprises 14 producing wells, two offshore platforms, two pipelines and an LNG plant with two production trains. It has a total capacity of 7.6 million tonnes of LNG per annum. Tangguh supplies LNG to customers in Indonesia, China, South Korea, and Japan through a combination of long, medium and short-term contracts.

The Tangguh expansion project, which was approved for final investment decision in 2016, is progressing on schedule. The project includes a third LNG processing train (train 3), adding 3.8 million tonnes per annum (mtpa) of production capacity to the existing facility, bringing total plant capacity to 11.4mtpa. The project also includes two offshore platforms, 13 new production wells, an expanded LNG loading facility, and supporting infrastructure. This will enable BP to continue playing an important role in supporting Indonesia's growing energy demand, with 75% of its annual LNG production sold to the Indonesian state electricity company PT. PLN (Persero). First production from train 3 is expected in 2020.

Approval from the government of Indonesia to relinquish BP's 32% interest in the Chevron-operated West Papua III was received in November. Approval for the relinquishment of West Papua I (also BP 32%) has not yet been obtained.

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Downstream plant capacity

The following table summarizes BP group's interests in refineries and average daily crude distillation capacities as at 31 December 2017.

| Fuels value chain | Country | Refinery | Crude distillation capacities ^a | |
|--|--------------|--------------------------|--|---|
| | | | Group interest ^b (%) | BP share thousand barrels per day |
| US | | | | |
| US North West | US | Cherry Point | 100 | 236 |
| US East of Rockies | | Whiting | 100 | 430 |
| | | Toledo | 50 | 80 |
| | | | | 746 |
| Europe | | | | |
| Rhine | Germany | Bayernoil ^c | 10 | 22 |
| | | Gelsenkirchen | 100 | 265 |
| | | Lingen | 100 | 97 |
| | Netherlands | Rotterdam | 100 | 377 |
| Iberia | Spain | Castellón | 100 | 110 |
| | | | | 871 |
| Rest of world | | | | |
| Australia | Australia | Kwinana | 100 | 152 |
| New Zealand | New Zealand | Whangarei ^{c d} | 10.1 | 33 |
| Southern Africa | South Africa | Durban ^c | 50 | 90 |
| | | | | 275 |
| Total BP share of capacity at 31 December 2017 | | | | 1,892 |

^a Crude distillation capacity is gross rated capacity, which is defined as the highest average sustained unit rate for a consecutive 30-day period.

^b BP share of equity, which is not necessarily the same as BP share of processing entitlements.

^c Indicates refineries not operated by BP.

^d 33mb/d reflects BP share of processing entitlement, which is not the same as BP share of equity.

Petrochemicals production capacity^a

The following table summarizes BP group's share of petrochemicals production capacities as at 31 December 2017.

| Geographical area | Site | Group interest ^c (%) | BP share of capacity thousand tonnes per annum ^b | | | | Product Others |
|-------------------|----------------------------|------------------------------------|---|-----|----------------|----------------------------|-------------------|
| | | | PTA | PX | Acetic acid | Olefins and derivatives | |
| US | | | | | | | |
| | Cooper River | 100 | 1,400 | — | — | — | — |
| | Texas City ^d | 100 | — | 900 | 600 | — | 100 |
| | | | 1,400 | 900 | 600 | — | 100 |
| Europe | | | | | | | |
| UK | Hull | 100 | — | — | 500 | — | 200 |
| Belgium | Geel | 100 | 1,400 | 700 | — | — | — |
| Germany | Gelsenkirchen ^e | 100 | — | — | — | 3,300 | — |
| | Mülheim ^e | 100 | — | — | — | — | 200 |
| | | | 1,400 | 700 | 500 | 3,300 | 400 |
| Rest of world | | | | | | | |
| Trinidad & Tobago | Point Lisas | 36.9 | — | — | — | — | 700 |

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| | | | | | | | | |
|--|---------------------|----------|-------|-------|-------|-------|-------|--------|
| China | Chongqing | 51 | — | — | 200 | — | 100 | |
| | Nanjing | 50 | — | — | 300 | — | — | |
| | Zhuhai ^f | 85 | 2,500 | — | — | — | — | |
| Indonesia | Merak | 100 | 500 | — | — | — | — | |
| South Korea | Ulsan ^g | 34 to 51 | — | — | 300 | — | 100 | |
| Malaysia | Kertih | 70 | — | — | 400 | — | — | |
| Taiwan | Mai Liao | 50 | — | — | 200 | — | — | |
| | Taichung | 61.4 | 500 | — | — | — | — | |
| | | | 3,500 | — | 1,400 | — | 900 | |
| | | | 6,300 | 1,600 | 2,500 | 3,300 | 1,400 | |
| Total BP share of capacity at 31 December 2017 | | | | | | | | 15,100 |

Petrochemicals production capacity is the proven maximum sustainable daily rate (MSDR) multiplied by the number of days in the respective period, where MSDR is the highest average daily rate ever achieved over a sustained period.

^b Capacities are shown to the nearest hundred thousand tonnes per annum.

^c Includes BP share of non-operated equity-accounted entities, as indicated.

^d For acetic acid, group interest is quoted at 100%, reflecting the capacity entitlement which is marketed by BP.

^e Due to the integrated nature of these plants with our Gelsenkirchen refinery, the income and expenditure of these plants is managed and reported through the fuels business.

^f BP Zhuhai Chemical Company Ltd is a subsidiary of BP, the capacity of which is shown above at 100%.

^g Group interest varies by product.

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Oil and gas disclosures for the group

Resource progression

BP manages its hydrocarbon resources in three major categories: prospect inventory, contingent resources and reserves. When a discovery is made, volumes usually transfer from the prospect inventory to the contingent resources category. The contingent resources move through various sub-categories as their technical and commercial maturity increases through appraisal activity.

At the point of final investment decision, most proved reserves will be categorized as proved undeveloped (PUD). Volumes will subsequently be recategorized from PUD to proved developed (PD) as a consequence of development activity. When part of a well's proved reserves depends on a later phase of activity, only that portion of proved reserves associated with existing, available facilities and infrastructure moves to PD. The first PD bookings will typically occur at the point of first oil or gas production. Major development projects typically take one to five years from the time of initial booking of PUD to the start of production. Changes to proved reserves bookings may be made due to analysis of new or existing data concerning production, reservoir performance, commercial factors and additional reservoir development activity.

Volumes can also be added or removed from our portfolio through acquisition or divestment of properties and projects. When we dispose of an interest in a property or project, the volumes associated with our adopted plan of development for which we have a final investment decision will be removed from our proved reserves upon completion of the transaction. When we acquire an interest in a property or project, the volumes associated with the existing development and any committed projects will be added to our proved reserves if BP has made a final investment decision and they satisfy the SEC's criteria for attribution of proved status. Following the acquisition, additional volumes may be progressed to proved reserves from non-proved reserves or contingent resources. Non-proved reserves and contingent resources in a field will only be recategorized as proved reserves when all the criteria for attribution of proved status have been met and the volumes are included in the business plan and scheduled for development, typically within five years. BP will only book proved reserves where development is scheduled to commence after more than five years, if these proved reserves satisfy the SEC's criteria for attribution of proved status and BP management has reasonable certainty that these proved reserves will be produced.

At the end of 2017 BP had material volumes of proved undeveloped reserves held for more than five years in Russia, Trinidad, the North Sea, Egypt, Canada and the Gulf of Mexico. These are part of ongoing infrastructure-led development activities for which BP has a historical track record of completing comparable projects in these countries. We have no proved undeveloped reserves held for more than five years in our onshore US developments. In each case the volumes are being progressed as part of an adopted development plan where there are physical limits to the development timing such as infrastructure limitations, contractual limits including gas delivery commitments, late life compression and the complex nature of working in remote locations.

Over the past five years, BP has annually progressed a weighted average 18% (18% for 2016 five-year average) of our group proved undeveloped reserves (including the impact of disposals and price acceleration effects in PSAs) to proved developed reserves. This equates to a turnover time of about five and a half years. We expect the turnover time to remain near this level and anticipate the volume of proved undeveloped reserves held for more than five years to remain about the same.

Proved reserves as estimated at the end of 2017 meet BP's criteria for project sanctioning and SEC tests for proved reserves. We have not halted or changed our commitment to proceed with any material project to which proved undeveloped reserves have been attributed.

In 2017 we progressed 1,671mmboe of proved undeveloped reserves (1,119mmboe for our subsidiaries« alone) to proved developed

reserves through ongoing investment in our subsidiaries' and equity-accounted entities' upstream development activities. Total development expenditure, excluding midstream activities, was \$15,277 million in 2017 (\$10,695 million for subsidiaries and \$4,582 million for equity-accounted entities). The major areas with progressed volumes in 2017 were Argentina, Trinidad, Russia, the UK and the US. Revisions of previous estimates for proved undeveloped reserves are due to changes relating to field performance, well results or changes in commercial conditions including price impacts. There were material revisions to our proved undeveloped resources in the UAE as a result of

development expansion, Azerbaijan as a result of the extension of the production license and in Russia as a result of new gas contracts and development drilling results. The following tables describe the changes to our proved undeveloped reserves position through the year for our subsidiaries and equity-accounted entities and for our subsidiaries alone.

| Subsidiaries and equity-accounted entities | volumes in mmboe ^a | |
|--|-------------------------------|---|
| Proved undeveloped reserves at 1 January 2017 | 7,797 | |
| Revisions of previous estimates | 842 | |
| Improved recovery | 236 | |
| Discoveries and extensions | 769 | |
| Purchases | 122 | |
| Sales | (65 |) |
| Total in year proved undeveloped reserves changes | 1,904 | |
| Proved developed reserves reclassified as undeveloped | 31 | |
| Progressed to proved developed reserves by development activities (e.g. drilling/completion) | (1,671 |) |
| Proved undeveloped reserves at 31 December 2017 | 8,060 | |

| Subsidiaries only | volumes in mmboe ^a | |
|--|-------------------------------|---|
| Proved undeveloped reserves at 1 January 2017 | 4,068 | |
| Revisions of previous estimates | 402 | |
| Improved recovery | 203 | |
| Discoveries and extensions | 413 | |
| Purchases | 57 | |
| Sales | (2 |) |
| Total in year proved undeveloped reserves changes | 1,073 | |
| Proved developed reserves reclassified as undeveloped | 31 | |
| Progressed to proved developed reserves by development activities (e.g. drilling/completion) | (1,119 |) |
| Proved undeveloped reserves at 31 December 2017 | 4,052 | |

^a Because of rounding, some totals may not agree exactly with the sum of their component parts.

BP bases its proved reserves estimates on the requirement of reasonable certainty with rigorous technical and commercial assessments based on conventional industry practice and regulatory requirements. BP only applies technologies that have been field tested and have been demonstrated to provide reasonably certain results with consistency and repeatability in the formation being evaluated or in an analogous formation. BP applies high-resolution seismic data for the identification of reservoir extent and fluid contacts only where there is an overwhelming track record of success in its local application. In certain cases BP uses numerical simulation as part of a holistic assessment of recovery factor for its fields, where these simulations have been field tested and have been demonstrated to provide reasonably certain results with consistency and repeatability in the formation being evaluated or in an analogous formation. In certain deepwater fields BP has booked proved reserves before production flow tests are conducted, in part because of the significant safety, cost and environmental implications of conducting these tests. The industry has made substantial technological improvements in understanding, measuring and delineating reservoir properties without the need for flow tests. To determine reasonable certainty of commercial recovery, BP employs a general method of reserves assessment that relies on the integration of three types of data:

well data used to assess the local characteristics and conditions of reservoirs and fluids
field scale seismic data to allow the interpolation and extrapolation of these characteristics outside the immediate area
of the local well control
data from relevant analogous fields.

Well data includes appraisal wells or sidetrack holes, full logging suites, core data and fluid samples. BP considers the integration of this data in certain cases to be superior to a flow test in providing understanding of overall reservoir performance. The collection of data from logs, cores, wireline formation testers, pressures and fluid samples calibrated to each other and to the seismic data can allow reservoir properties to be determined over a greater volume than the localized volume of investigation associated with a short-term flow test. There is a strong track record of proved reserves recorded using these methods, validated by actual production levels.

Governance

BP's centrally controlled process for proved reserves estimation approval forms part of a holistic and integrated system of internal control. It consists of the following elements:

Accountabilities of certain officers of the group to ensure that there is review and approval of proved reserves bookings independent of the operating business and that there are effective controls in the approval process and verification that the proved reserves estimates and the related financial impacts are reported in a timely manner.

Capital allocation processes, whereby delegated authority is exercised to commit to capital projects that are consistent with the delivery of the group's business plan. A formal review process exists to ensure that both technical and commercial criteria are met prior to the commitment of capital to projects.

Group audit, whose role is to consider whether the group's system of internal control is adequately designed and operating effectively to respond appropriately to the risks that are significant to BP.

Approval hierarchy, whereby proved reserves changes above certain threshold volumes require immediate review and all proved reserves require annual central authorization and have scheduled periodic reviews. The frequency of periodic review ensures that 100% of the BP proved reserves base undergoes central review every three years.

BP's vice president of segment reserves is the petroleum engineer primarily responsible for overseeing the preparation of the reserves estimate. He has more than 30 years of diversified industry experience, with more than 10 years spent managing the governance and compliance of BP's reserves estimation. He is a past member of the Society of Petroleum Engineers Oil and Gas Reserves Committee and of the American Association of Petroleum Geologists Committee on Resource Evaluation and is the current chair of the bureau of the United Nations Economic Commission for Europe Expert Group on Resource Classification.

No specific portion of compensation bonuses for senior management is directly related to proved reserves targets. Additions to proved reserves is one of several indicators by which the performance of the Upstream segment is assessed by the remuneration committee for the purposes of determining compensation bonuses for the executive directors. Other indicators include a number of financial and operational measures.

BP's variable pay programme for the other senior managers in the Upstream segment is based on individual performance contracts. Individual performance contracts are based on agreed items from the business performance plan, one of which, if chosen, could relate to proved reserves.

Compliance

International Financial Reporting Standards (IFRS) do not provide specific guidance on reserves disclosures. BP estimates proved reserves in accordance with SEC Rule 4-10 (a) of Regulation S-X and relevant Compliance and Disclosure Interpretations (C&DI) and Staff Accounting Bulletins as issued by the SEC staff.

By their nature, there is always some risk involved in the ultimate development and production of proved reserves including, but not limited to: final regulatory approval; the installation of new or additional infrastructure, as well as changes in oil and gas prices; changes in operating and development costs; and the continued availability of additional development capital. All the group's proved reserves held in subsidiaries and equity-accounted entities are estimated by the group's petroleum engineers or by independent petroleum engineering consulting firms and then assured by the group's petroleum engineers.

DeGolyer & MacNaughton (D&M), an independent petroleum engineering consulting firm, has estimated the net proved crude oil, condensate, natural gas liquids (NGLs) and natural gas reserves, as of 31 December 2017, of certain

properties owned by Rosneft as part of our equity-accounted proved reserves. The properties evaluated by D&M account for 100% of Rosneft's net proved reserves as of 31 December 2017. The net proved reserves estimates prepared by D&M were prepared in accordance with the reserves definitions of Rule 4-10(a)(1)-(32) of Regulation S-X. All reserves estimates involve some degree of uncertainty. BP has filed D&M's independent report on its reserves estimates as an exhibit to this Annual Report on Form 20-F filed with the SEC.

Our proved reserves are associated with both concessions (tax and royalty arrangements) and agreements where the group is exposed to the upstream risks and rewards of ownership, but where our entitlement to the hydrocarbons is calculated using a more complex formula, such as with PSAs. In a concession, the consortium of which we are a part is entitled to the proved reserves that can be produced over the licence period, which may be the life of the field. In a PSA, we are entitled to recover volumes that equate to costs incurred to develop and produce the proved reserves and an agreed share of the remaining volumes or the economic equivalent. As part of our entitlement is driven by the monetary amount of costs to be recovered, price fluctuations will have an impact on both production volumes and reserves.

We disclose our share of proved reserves held in equity-accounted entities (joint ventures and associates), although we do not control these entities or the assets held by such entities.

BP's estimated net proved reserves and proved reserves replacement

88% of our total proved reserves of subsidiaries at 31 December 2017 were held through joint operations (86% in 2016), and 34% of the proved reserves were held through such joint operations where we were not the operator (31% in 2016).

Estimated net proved reserves of crude oil at 31 December 2017^{a b c}

| | million barrels | | |
|------------------------------------|-----------------|-------------|--------|
| | Developed | Undeveloped | Total |
| UK | 245 | 164 | 409 |
| Rest of Europe | — | — | — |
| US ^d | 932 | 492 | 1,423 |
| Rest of North America ^e | 54 | 195 | 248 |
| South America ^f | 10 | 6 | 16 |
| Africa | 281 | 28 | 309 |
| Rest of Asia | 1,040 | 642 | 1,682 |
| Australasia | 31 | 11 | 42 |
| Subsidiaries | 2,592 | 1,537 | 4,129 |
| Equity-accounted entities | 3,473 | 2,603 | 6,076 |
| Total | 6,064 | 4,140 | 10,205 |

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Estimated net proved reserves of natural gas liquids at 31 December 2017^{a b}

| | million barrels | | |
|---------------------------|-----------------|-------------|-------|
| | Developed | Undeveloped | Total |
| UK | 11 | 3 | 14 |
| Rest of Europe | — | — | — |
| US | 177 | 69 | 246 |
| Rest of North America | — | — | — |
| South America | 2 | 28 | 30 |
| Africa | 21 | — | 21 |
| Rest of Asia | — | — | — |
| Australasia | 5 | 1 | 6 |
| Subsidiaries | 216 | 102 | 318 |
| Equity-accounted entities | 97 | 53 | 149 |
| Total | 313 | 154 | 467 |

Estimated net proved reserves of liquids^c

| | million barrels | | |
|--|-----------------|-------------|--------|
| | Developed | Undeveloped | Total |
| Subsidiaries ^f | 2,808 | 1,639 | 4,447 |
| Equity-accounted entities ^g | 3,569 | 2,656 | 6,225 |
| Total | 6,377 | 4,295 | 10,672 |

Estimated net proved reserves of natural gas at 31 December 2017^{a b}

| | billion cubic feet | | | |
|--|--------------------|-------------|--------|---|
| | Developed | Undeveloped | Total | |
| UK | 523 | 320 | 843 | |
| Rest of Europe | — | — | — | |
| US | 5,238 | 3,086 | 8,323 | |
| Rest of North America | (1 |)— | (1 |) |
| South America ^h | 2,862 | 3,330 | 6,193 | |
| Africa | 1,159 | 1,510 | 2,670 | |
| Rest of Asia | 2,755 | 4,245 | 7,000 | |
| Australasia | 2,730 | 1,505 | 4,235 | |
| Subsidiaries | 15,266 | 13,997 | 29,263 | |
| Equity-accounted entities ⁱ | 7,955 | 7,841 | 15,796 | |
| Total | 23,221 | 21,838 | 45,060 | |

Estimated net proved reserves on an oil equivalent basis

| | million barrels of oil equivalent | | |
|---------------------------|-----------------------------------|-------------|--------|
| | Developed | Undeveloped | Total |
| Subsidiaries | 5,440 | 4,052 | 9,492 |
| Equity-accounted entities | 4,941 | 4,008 | 8,949 |
| Total | 10,381 | 8,060 | 18,441 |

Proved reserves exclude royalties due to others, whether payable in cash or in kind, where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements

^a independently, and include non-controlling interests in consolidated operations. We disclose our share of reserves held in joint ventures and associates that are accounted for by the equity method although we do not control these entities or the assets held by such entities.

^b The 2017 marker prices used were Brent^c \$54.36/bbl (2016 \$42.82/bbl and 2015 \$54.17/bbl) and Henry Hub^c \$2.96/mmBtu (2016 \$2.46/mmBtu and 2015 \$2.59/mmBtu).

^c Includes condensate.

^d Proved reserves in the Prudhoe Bay field in Alaska include an estimated 9 million barrels on which a net profits royalty will be payable over the life of the field under the terms of the BP Prudhoe Bay Royalty Trust.

^e All of the reserves in Canada are bitumen.

^f Includes 14 million barrels of liquids in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

^g Includes 338 million barrels of liquids in respect of the non-controlling interest in Rosneft held assets in Russia including 32 million barrels held through BP's equity-accounted interest in Taas-Yuryakh Neftegazodobycha.

^h Includes 1,860 billion cubic feet of natural gas in respect of the 30% non-controlling interest in BP Trinidad and Tobago LLC.

ⁱ Includes 306 billion cubic feet of natural gas in respect of the non-controlling interest in Rosneft held assets in Russia including 12 billion cubic feet held through BP's equity-accounted interest in Taas-Yuryakh Neftegazodobycha.

Because of rounding, some totals may not agree exactly with the sum of their component parts.

Proved reserves replacement

Total hydrocarbon proved reserves at 31 December 2017, on an oil equivalent basis including equity-accounted entities, increased by 4% (increase of 4% for subsidiaries and increase of 3% for equity-accounted entities) compared with 31 December 2016. Natural gas represented about 42% (53% for subsidiaries and 30% for equity-accounted entities) of these reserves. The change includes a net increase from acquisitions and disposals of 47mmboe (increase of 90mmboe within our subsidiaries and decrease of 43mmboe within our equity-accounted entities). Acquisition activity in our subsidiaries occurred in Egypt, the US and the UK, and divestment activity in our subsidiaries in the UK. In our equity-accounted entities acquisitions occurred in our Aker BP and Rosneft equity-accounted entities and divestments occurred in our Aker BP and in our Pan American Energy (PAE) equity-accounted entities.

The proved reserves replacement ratio (RRR) is the extent to which production is replaced by proved reserves additions. This ratio is expressed in oil equivalent terms and includes changes resulting from revisions to previous estimates, improved recovery, and extensions and discoveries. For 2017, the proved reserves replacement ratio excluding acquisitions and disposals was 143% (109% in 2016 and 61% in 2015) for subsidiaries and equity-accounted entities, 133% for subsidiaries alone and 159% for equity-accounted entities alone. There were material increases (264mmboe) of reserves due to extension of the date of cessation of production across the group due to higher oil and gas prices, but these were partially offset by decreases (150mmboe) in PSAs, principally in Azerbaijan, Indonesia and Iraq resulting from decreased cost recovery volumes due to higher oil and gas prices. In 2017 net additions to the group's proved reserves (excluding production and sales and purchases of reserves-in-place) amounted to 1,926mmboe (1,084mmboe for subsidiaries and 842mmboe for equity-accounted entities), through revisions to previous estimates, improved recovery from, and extensions to, existing fields and discoveries of new fields. The subsidiary additions through improved recovery from, and extensions to, existing fields and discoveries of new fields were in existing developments where they represented a mixture of proved developed and proved undeveloped reserves. Volumes added in 2017 principally resulted from the application of conventional technologies and extensions of the cessation of production as a result of higher prices. The principal proved reserves additions in our subsidiaries were in UAE, Oman, Azerbaijan and the US. We had material reductions in our proved reserves in Iraq principally due to higher oil and gas prices. The principal reserves additions in our equity-accounted entities were in PAE and Rosneft.

17% of our proved reserves are associated with PSAs. The countries in which we operated under PSAs in 2017 were Algeria, Angola, Azerbaijan, Egypt, India, Indonesia and Oman. In addition, the technical service contract (TSC) governing our investment in the Rumaila field in Iraq functions as a PSA.

Our Abu Dhabi offshore concessions are due to expire in 2018, we have no proved reserves associated with these concessions beyond their expiry date. The group holds no other licences due to expire within the next three years that would have a significant impact on BP's reserves or production.

For further information on our reserves see page 198.

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BP's net production by country – crude oil and natural gas liquids

| | thousand barrels per day | | | | | |
|---|--------------------------|-------|-------|---------------------|------|------|
| | Crude oil | | | Natural gas liquids | | |
| | 2017 | 2016 | 2015 | 2017 | 2016 | 2015 |
| Subsidiaries | | | | | | |
| UK ^{c d} | 80 | 79 | 72 | 6 | 6 | 7 |
| Norway ^c | — | 24 | 38 | — | 4 | 5 |
| Total Rest of Europe | — | 24 | 38 | — | 4 | 5 |
| Total Europe | 80 | 102 | 110 | 6 | 10 | 11 |
| Alaska ^c | 109 | 107 | 107 | — | — | — |
| Lower 48 onshore ^c | 10 | 12 | 14 | 34 | 36 | 37 |
| Gulf of Mexico deepwater | 251 | 216 | 203 | 21 | 20 | 19 |
| Total US | 370 | 335 | 323 | 56 | 56 | 56 |
| Canada ^e | 20 | 13 | 3 | — | — | — |
| Total Rest of North America | 20 | 13 | 3 | — | — | — |
| Total North America | 390 | 347 | 327 | 56 | 56 | 56 |
| Trinidad & Tobago ^c | 12 | 10 | 12 | 10 | 8 | 11 |
| Total South America | 12 | 10 | 12 | 10 | 8 | 11 |
| Angola | 192 | 219 | 221 | — | — | — |
| Egypt ^c | 40 | 39 | 42 | — | — | — |
| Algeria | 9 | 5 | 6 | 10 | 5 | 7 |
| Total Africa | 241 | 263 | 270 | 10 | 5 | 7 |
| Abu Dhabi ^c | 158 | — | — | — | — | — |
| Azerbaijan | 90 | 105 | 111 | — | — | — |
| Western Indonesia ^c | — | 2 | 2 | — | — | — |
| Iraq | 73 | 96 | 85 | — | — | — |
| India | 1 | 1 | 1 | — | — | — |
| Oman | 2 | — | — | — | — | — |
| Total Rest of Asia | 325 | 204 | 199 | — | — | 1 |
| Total Asia | 325 | 204 | 199 | — | — | 1 |
| Australia ^c | 15 | 15 | 15 | 2 | 3 | 3 |
| Eastern Indonesia ^c | 1 | 2 | 2 | — | — | — |
| Total Australasia | 17 | 16 | 17 | 2 | 3 | 3 |
| Total subsidiaries | 1,064 | 943 | 933 | 85 | 82 | 88 |
| Equity-accounted entities (BP share) | | | | | | |
| Rosneft (Russia, Canada, Venezuela, Vietnam) | 900 | 836 | 809 | 4 | 4 | 4 |
| Abu Dhabi ^f | 99 | 101 | 96 | — | — | — |
| Argentina ^c | 60 | 62 | 65 | — | 1 | 3 |
| Bolivia ^c | 3 | 4 | 4 | — | — | — |
| Egypt | — | — | — | 2 | 3 | 3 |
| Norway ^c | 31 | 7 | — | 2 | — | — |
| Russia ^c | 5 | 4 | — | — | — | — |
| Angola | 1 | — | — | 4 | 1 | — |
| Other | — | 1 | 1 | — | — | — |
| Total equity-accounted entities | 1,099 | 1,015 | 974 | 12 | 8 | 10 |
| Total subsidiaries and equity-accounted entities ^g | 2,163 | 1,958 | 1,908 | 97 | 90 | 99 |

^a Includes condensate.

^b Production excludes royalties due to others whether payable in cash or in kind where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^c In 2017, BP renewed its onshore concession of the United Arab Emirates that grants BP 10% interest in ADCO onshore concession. It also decreased its interest in Magnus field in North Sea and completed the formation of Pan American Energy Group (PAEG) (BP 50%, Bidas Corporation 50%), which is a combination of Pan American Energy and Axion Energy with an effective decrease in interest. In 2016, BP increased its interests in Tangguh in Indonesia and the Culzean asset in the UK North Sea, and in certain US onshore assets. It disposed of its interests in the Valhall, Skarv and Ula assets in the Norwegian North Sea and in return received an interest in Aker BP ASA, which operates in Norway. It also disposed of its interests in the Jansz-Lo asset in Australia, and the Sanga Sanga conventional concession in Indonesia. It also decreased its interests in certain Trinidad and US onshore assets. In 2015, BP acquired an interest in Taas-Yuryakh Neftegazodobycha. It also increased its interest in the North Alexandria and West Mediterranean Deep Water Concessions of the West Nile Delta project in Egypt. It increased its interest in certain UK North Sea, Trinidad, and US onshore assets. It also decreased its interest in certain other assets in the same regions.

^d Volumes relate to six BP-operated fields within ETAP. BP has no interests in the remaining three ETAP fields, which are operated by Shell.

^e All of the production from Canada in Subsidiaries is bitumen.

^f BP holds interests, through associates, in offshore concessions in Abu Dhabi which expire in 2018.

^g Includes 3 net mboe/d of NGLs from processing plants in which BP has an interest (2016 3mboe/d and 2015 4mboe/d).

Because of rounding, some totals may not agree exactly with the sum of their component parts.

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BP's net production by country – natural gas

| | million cubic feet per day BP net share of production ^a | | |
|---|---|-------|-------|
| | 2017 | 2016 | 2015 |
| Subsidiaries | 182 | 170 | 155 |
| UK ^b | | | |
| Norway ^b | — | 82 | 111 |
| Total Rest of Europe | — | 82 | 111 |
| Total Europe | 182 | 252 | 266 |
| Lower 48 onshore ^b | 1,467 | 1,476 | 1,353 |
| Gulf of Mexico deepwater | 186 | 173 | 168 |
| Alaska | 5 | 6 | 7 |
| Total US | 1,659 | 1,656 | 1,528 |
| Canada | 9 | 10 | 10 |
| Total Rest of North America | 9 | 10 | 10 |
| Total North America | 1,667 | 1,666 | 1,538 |
| Trinidad & Tobago ^b | 1,936 | 1,689 | 1,922 |
| Total South America | 1,936 | 1,689 | 1,922 |
| Egypt ^b | 745 | 305 | 402 |
| Algeria | 205 | 208 | 187 |
| Total Africa | 949 | 513 | 589 |
| Azerbaijan | 232 | 245 | 219 |
| Western Indonesia ^b | — | 35 | 48 |
| India | 60 | 84 | 113 |
| Oman | 79 | — | — |
| Total Rest of Asia | 371 | 363 | 380 |
| Total Asia | 371 | 363 | 380 |
| Australia ^b | 426 | 451 | 447 |
| Eastern Indonesia ^b | 357 | 369 | 354 |
| Total Australasia | 783 | 820 | 801 |
| Total subsidiaries ^c | 5,889 | 5,302 | 5,495 |
| Equity-accounted entities (BP share) | | | |
| Rosneft (Russia, Canada, Egypt, Venezuela, Vietnam) | 1,308 | 1,279 | 1,195 |
| Argentina | 329 | 354 | 341 |
| Bolivia | 89 | 95 | 93 |
| Norway ^b | 53 | 12 | — |
| Angola | 77 | 18 | — |
| Western Indonesia | — | 15 | 21 |
| Total equity-accounted entities ^c | 1,855 | 1,773 | 1,651 |
| Total subsidiaries and equity-accounted entities | 7,744 | 7,075 | 7,146 |

^a Production excludes royalties due to others whether payable in cash or in kind where the royalty owner has a direct interest in the underlying production and the option and ability to make lifting and sales arrangements independently.

^b In 2017, BP decreased its interest in Magnus field in North Sea and completed the formation of Pan American Energy Group (PAEG) (BP 50%, Bidas Corporation 50%), which is a combination of Pan American Energy and Axion Energy with an effective decrease in interest. In 2016, BP increased its interests in Tangguh in Indonesia and the Culzean asset in the UK North Sea, and in certain US onshore assets. It disposed of its interests in the Valhall, Skarv and Ula assets in the Norwegian North Sea and in return received an interest in Aker BP ASA, which operates in Norway. It also disposed of its interests in the Jansz-Io asset in Australia, and the Sanga Sanga concession in

Indonesia. It also decreased its interests in certain Trinidad and US onshore assets. In 2015, BP acquired an interest in Taas-Yuryakh Neftegazodobycha. It also increased its interest in the North Alexandria and West Mediterranean Deep Water Concessions of the West Nile Delta project in Egypt. It increased its interest in certain UK North Sea, Trinidad, and US onshore assets. It also decreased its interest in certain other assets in the same regions.

^c Natural gas production volumes exclude gas consumed in operations within the lease boundaries of the producing field, but the related reserves are included in the group's reserves.

Because of rounding, some totals may not agree exactly with the sum of their component parts.

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The following tables provide additional data and disclosures in relation to our oil and gas operations. Average sales price per unit of production (realizations«)a

| | Europe | | North America | | South America | Africa | Asia | \$ per unit of production | | |
|--|--------|----------------|---------------|------------------------------------|---------------|--------|--------|---------------------------|-----------|---------------|
| | UK | Rest of Europe | US | Rest of North America ^b | | | Russia | Rest of Asia | Australia | Total average |
| | | | | | | | | | | |
| Subsidiaries | | | | | | | | | | |
| 2017 | | | | | | | | | | |
| Crude oil ^c | 53.67 | — | 49.98 | 36.80 | 55.44 | 53.61 | — | 52.88 | 53.26 | 51.71 |
| Natural gas liquids | 32.77 | — | 22.42 | — | 26.79 | 36.48 | — | — | 39.39 | 26.00 |
| Gas | 5.09 | — | 2.36 | — | 2.25 | 3.82 | — | 3.44 | 6.14 | 3.19 |
| 2016 | | | | | | | | | | |
| Crude oil ^c | 42.80 | 40.16 | 39.65 | 26.11 | 45.64 | 40.83 | — | 39.29 | 41.52 | 39.99 |
| Natural gas liquids | 25.70 | 20.16 | 14.71 | — | 21.40 | 21.30 | — | — | 32.70 | 17.31 |
| Gas | 4.50 | 4.19 | 1.90 | — | 1.72 | 3.89 | — | 3.39 | 5.71 | 2.84 |
| 2015 | | | | | | | | | | |
| Crude oil ^c | 52.42 | 50.68 | 49.84 | 26.71 | 53.19 | 49.09 | — | 49.33 | 50.64 | 49.72 |
| Natural gas liquids | 30.66 | 28.20 | 14.80 | — | 27.66 | 31.94 | — | — | 36.69 | 20.75 |
| Gas | 7.83 | 6.49 | 2.10 | — | 2.67 | 4.40 | — | 5.35 | 7.35 | 3.80 |
| Equity-accounted entities ^d | | | | | | | | | | |
| 2017 | | | | | | | | | | |
| Crude oil ^c | — | 55.08 | — | — | 49.97 | — | 45.66 | 15.61 | — | 42.33 |
| Natural gas liquids ^e | — | — | — | — | — | — | N/A | — | — | — |
| Gas | — | 5.78 | — | — | 4.49 | — | 1.63 | — | — | 2.47 |
| 2016 | | | | | | | | | | |
| Crude oil ^c | — | 50.71 | — | — | 48.88 | — | 36.36 | 12.92 | — | 34.04 |
| Natural gas liquids ^e | — | — | — | — | 34.51 | — | N/A | — | — | 34.51 |
| Gas | — | 5.16 | — | — | 4.21 | — | 1.39 | 6.11 | — | 2.20 |
| 2015 | | | | | | | | | | |
| Crude oil ^c | — | — | — | — | 54.24 | — | 44.78 | 16.87 | — | 41.49 |
| Natural gas liquids ^e | — | — | — | — | 13.17 | — | N/A | — | — | 13.17 |
| Gas | — | — | — | — | 4.35 | — | 1.48 | 7.56 | — | 2.35 |

Average production cost per unit of production^f

| | Europe | | North America | | South America | Africa | Asia | \$ per unit of production | | |
|--------------|--------|----------------|---------------|-----------------------|---------------|--------|--------|---------------------------|-----------|---------------|
| | UK | Rest of Europe | US | Rest of North America | | | Russia | Rest of Asia | Australia | Total average |
| | | | | | | | | | | |
| Subsidiaries | | | | | | | | | | |
| 2017 | | | | | | | | | | |
| 2017 | 14.58 | — | 8.68 | 15.02 | 4.41 | 6.47 | — | 6.37 | 2.79 | 7.11 |
| 2016 | 14.80 | 13.72 | 10.20 | 21.79 | 4.21 | 9.34 | — | 7.08 | 2.62 | 8.46 |
| 2015 | 22.95 | 13.80 | 11.84 | 43.56 | 5.44 | 11.02 | — | 11.22 | 2.88 | 10.46 |

Equity-accounted entities

| | | | | | | | | | | |
|------|---|-------|---|---|-------|---|------|------|---|------|
| 2017 | — | 10.33 | — | — | 11.92 | — | 3.19 | 3.27 | — | 4.32 |
| 2016 | — | 10.41 | — | — | 10.66 | — | 2.46 | 3.67 | — | 3.57 |
| 2015 | — | — | — | — | 12.10 | — | 2.60 | 4.59 | — | 3.93 |

^a Units of production are barrels for liquids and thousands of cubic feet for gas. Realizations include transfers between businesses, except in the case of Russia.

^b All of the production from Canada in Subsidiaries is bitumen.

^c Includes condensate.

^d In certain countries it is common for equity-accounted entities' agreements to include pricing clauses that require selling a significant portion of the entitled production to local governments or markets at discounted prices.

^e Natural gas liquids for Russia are included in crude oil.

^f Units of production are barrels for liquids and thousands of cubic feet for gas. Amounts do not include ad valorem and severance taxes.

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Environmental expenditure

| | \$ million | | |
|--|------------|-------|-------|
| | 2017 | 2016 | 2015 |
| Environmental expenditure relating to the Gulf of Mexico oil spill | — | — | 5,452 |
| Operating expenditure | 441 | 487 | 521 |
| Capital expenditure | 487 | 564 | 733 |
| Clean-ups | 22 | 27 | 34 |
| Additions to environmental remediation provision | 249 | 262 | 305 |
| Increase (decrease) in decommissioning provision | (228) | (804) | 972 |

Operating and capital expenditure on the prevention, control, treatment or elimination of air and water emissions and solid waste is often not incurred as a separately identifiable transaction. Instead, it forms part of a larger transaction that includes, for example, normal operations and maintenance expenditure. The figures for environmental operating and capital expenditure in the table are therefore estimates, based on the definitions and guidelines of the American Petroleum Institute.

Environmental operating expenditure of \$441 million in 2017 (2016 \$487 million) showed an overall decrease of 9% which was primarily due to lower expenditures associated with BP's share of the TAPS pipeline.

Environmental capital expenditure in 2017 was lower overall than in 2016, largely due to lower spend as a result of the completion of the installation of the new LPG refrigeration plant for the North Sea Forties Pipeline System in the previous year and lower spend on Kuparuk field in Alaska driven by lower activity.

Clean-up costs decreased to \$22 million in 2017 compared with \$27 million in 2016, primarily due to decreased contractual rates and overall cost reductions. The numbers of oil spills are broadly similar and while the volume of oil has increased, this includes releases to secondary containment which do not reach the environment.

In addition to operating and capital expenditure, we also establish provisions for future environmental remediation work. Expenditure against such provisions normally occurs in subsequent periods and is not included in environmental operating expenditure reported for such periods.

Provisions for environmental remediation are made when a clean-up is probable and the amount of the obligation can be reliably estimated. Generally, this coincides with the commitment to a formal plan of action or, if earlier, on divestment or on closure of inactive sites.

The extent and cost of future environmental restoration, remediation and abatement programmes are inherently difficult to estimate. They often depend on the extent of contamination, and the associated impact and timing of the corrective actions required, technological feasibility and BP's share of liability. Though the costs of future programmes could be significant and may be material to the results of operations in the period in which they are recognized, it is not expected that such costs will be material to the group's overall results of operations or financial position.

Additions to our environmental remediation provision was similar to prior years and also reflects scope reassessments of the remediation plans of a number of our sites in the US and Canada. The charge for environmental remediation provisions in 2017 included \$8 million in respect of provisions for new sites (2016 \$7 million and 2015 \$6 million). In addition, we make provisions on installation of our oil and gas producing assets and related pipelines to meet the cost of eventual decommissioning. On installation of an oil or natural gas production facility, a provision is established that represents the discounted value of the expected future cost of decommissioning the asset.

In 2017, the net decrease in the decommissioning provision, similar to the decrease in 2016, was a result of detailed reviews of expected future costs, partially offset by increases to the asset base.

We undertake periodic reviews of existing provisions. These reviews take account of revised cost assumptions, changes in decommissioning requirements and any technological developments.

Provisions for environmental remediation and decommissioning are usually established on a discounted basis, as required by IAS 37 'Provisions, Contingent Liabilities and Contingent Assets'.

Further details of decommissioning and environmental provisions appear in Financial statements – Note 21.

Environmental expenditure relating to the Gulf of Mexico oil spill

For full details of all environmental activities in relation to the Gulf of Mexico oil spill, see Financial statements – Note 2.

Regulation of the group's business

BP's activities, including its oil and gas exploration and production, pipelines and transportation, refining and marketing, petrochemicals production, trading, biofuels, wind and shipping activities, are conducted in 70 countries and are subject to a broad range of EU, US, international, regional and local legislation and regulations, including legislation that implements international conventions and protocols. These cover virtually all aspects of BP's activities and include matters such as licence acquisition, production rates, royalties, environmental, health and safety protection, fuel specifications and transportation, trading, pricing, anti-trust, export, taxes and foreign exchange.

Upstream contractual and regulatory framework

The terms and conditions of the leases, licences and contracts under which our oil and gas interests are held vary from country to country. These leases, licences and contracts are generally granted by or entered into with a government entity or state-owned or controlled company and are sometimes entered into with private property owners.

Arrangements with governmental or state entities usually take the form of licences or production-sharing agreements«(PSAs), although arrangements with the US government can be by lease. Arrangements with private property owners are usually in the form of leases.

Licences (or concessions) give the holder the right to explore for and exploit a commercial discovery. Under a licence, the holder bears the risk of exploration, development and production activities and provides the financing for these operations. In principle, the licence holder is entitled to all production, minus any royalties that are payable in kind. A licence holder is generally required to pay production taxes or royalties, which may be in cash or in kind. Less typically, BP may explore for and exploit hydrocarbons« under a service agreement with the host entity in exchange for reimbursement of costs and/or a fee paid in cash rather than production.

PSAs entered into with a government entity or state-owned or controlled company generally require BP (alone or with other contracting companies) to provide all the financing and bear the risk of exploration and production activities in exchange for a share of the production remaining after royalties, if any.

In certain countries, separate licences are required for exploration and production activities, and in some cases production licences are limited to only a portion of the area covered by the original exploration licence. Both exploration and production licences are generally for a specified period of time. In the US, leases from the US government typically remain in effect for a specified term, but may be extended beyond that term as long as there is production in paying quantities. The term of BP's licences and the extent to which these licences may be renewed vary from country to country.

BP frequently conducts its exploration and production activities in joint arrangements« or co-ownership arrangements with other international oil companies, state-owned or controlled companies and/or private companies. These joint arrangements may be incorporated or unincorporated arrangements, while the co-ownerships are typically unincorporated. Whether incorporated or unincorporated, relevant agreements set out each party's level of participation or ownership interest in the joint arrangement or co-ownership. Conventionally, all costs, benefits, rights, obligations,

liabilities and risks incurred in carrying out joint arrangement or co-ownership operations under a lease or licence are shared among the joint arrangement or co-owning parties according to these agreed ownership interests. Ownership of joint arrangement or co-owned property and hydrocarbons to which the joint arrangement or co-ownership is entitled is also shared in these proportions. To the extent that any liabilities arise, whether to governments or third parties, or as between the joint arrangement parties or co-owners themselves, each joint arrangement party or co-owner will generally be liable to meet these in proportion to its ownership interest. In many upstream operations, a party (known as the operator) will be appointed (pursuant to a joint operating agreement) to carry out day-to-day operations on behalf of the joint arrangement or co-ownership. The operator is typically one of the joint arrangement parties or a co-owner and will carry out its duties either through its own staff, or by contracting out various elements to third-party contractors or service providers. BP acts as operator on behalf of joint arrangements and co-ownership in a number of countries where it has exploration and production activities.

Frequently, work (including drilling and related activities) will be contracted out to third-party service providers who have the relevant expertise and equipment not available within the joint arrangement or the co-owning operator's organization. The relevant contract will specify the work to be done and the remuneration to be paid and will typically set out how major risks will be allocated between the joint arrangement or co-ownership and the service provider. Generally, the joint arrangement or co-owner and the contractor would respectively allocate responsibility for and provide reciprocal indemnities to each other for harm caused to and by their respective staff and property. Depending on the service to be provided, an oil and gas industry service contract may also contain provisions allocating risks and liabilities associated with pollution and environmental damage, damage to a well or hydrocarbon reservoirs and for claims from third parties or other losses. The allocation of those risks vary among contracts and are determined through negotiation between the parties.

In general, BP incurs income tax on income generated from production activities (whether under a licence or PSA). In addition, depending on the area, BP's production activities may be subject to a range of other taxes, levies and assessments, including special petroleum taxes and revenue taxes. The taxes imposed on oil and gas production profits and activities may be substantially higher than those imposed on other activities, for example in Abu Dhabi, Angola, Egypt, Norway, the UK, the US, Russia and Trinidad & Tobago.

Greenhouse gas regulation

In December 2015, nearly 200 nations at the United Nations climate change conference in Paris (COP21) agreed the Paris Agreement, for implementation post-2020. The agreement came into force on 4 November 2016. For the first time this agreement applies to all countries, both developing and developed, although in some instances allowances or flexibilities are provided for developing nations. The Paris Agreement aims to hold global average temperature rise to well below 2°C above pre-industrial levels and to pursue efforts to limit temperature rise to 1.5°C above pre-industrial levels. There is no quantitative long-term emissions goal. However, countries aim to reach global peaking of greenhouse gas (GHG) emissions as soon as possible and to undertake rapid reductions thereafter, so as to achieve a balance between human caused emissions by sources and removals by sinks of GHGs in the second half of this century. The Paris Agreement commits all parties to submit Nationally Determined Contributions (NDCs) (i.e. pledges or plans of climate action) and pursue domestic measures aimed at achieving the objectives of their NDCs. Developed country NDCs should include absolute emission reduction targets, and developing countries are encouraged to move over time towards them. The Paris Agreement places binding commitments on countries to report on their emissions and progress made on their NDCs and to undergo international review of collective progress. It also requires countries to submit revised NDCs every five years, which are expected to be more ambitious with each revision. Global assessments of progress will occur every five years, starting in 2023. In the decision adopting the Paris Agreement, an earlier commitment by developed countries to mobilize \$100 billion a year by 2020 was extended through 2025,

with a further goal with a floor of \$100 billion to be set before 2025. On 1 June 2017, the US announced that it will withdraw from the Paris Agreement. This includes suspending the implementation of the US's NDC and funding for the Green Climate Fund. The process for withdrawal can be completed no earlier than 4 November 2020.

The United Nations climate change conference in Marrakech (COP22), held in November 2016, agreed a deadline of 2018 for countries to agree on the guidelines and rules that are needed to support implementation of the Paris

Agreement. At COP23, held in November 2017 in Bonn, the parties met to continue the negotiations; amongst other things, the parties agreed to launch the 2018 Talanoa Dialogue to review collective efforts in relation to progress towards the Paris Agreement objectives and to inform the preparation of NDCs, and to convene stocktakes on pre-2020 implementation and ambition at COP24 and 25.

More stringent national and regional measures relating to the transition to a lower carbon economy can be expected in the future. These measures could increase BP's production costs for certain products, increase compliance and litigation costs, increase demand for competing energy alternatives or products with lower-carbon intensity, and affect the sales and specifications of many of BP's products. Further, such measures could lead to constraints on production and supply and access to new reserves, particularly due to the long term nature of many of BP's projects. Current and announced measures and developments potentially affecting BP's businesses include the following:

United States

In the US, the Obama administration adopted its Climate Action Plan in 2013 and had been using existing statutory authority to implement that plan, including the Clean Air Act (CAA) and the Mineral Leasing Act (MLA). On 28 March 2017 the Trump administration issued Executive Order (EO) 13783 rescinding major elements of the Climate Action Plan, and instructing the Environmental Protection Agency (EPA) to review and then commence the process of suspending, revising or rescinding certain regulations, including the Clean Power Plan and the EPA new source methane rule. EO 13783 also instructed the Department of Interior (DOI) to review and possibly suspend, revise or rescind the Bureau of Land Management (BLM) methane rule. The EPA and the DOI are taking steps to implement these aspects of EO 13783 and legal challenges have been brought by some US states and private parties regarding these proposed changes.

Greenhouse gas (GHG) emissions are currently regulated in a number of ways under the CAA. As noted above, as a result of EO 13783, some of these regulations may be suspended, revised or rescinded resulting in complex compliance challenges for our affected businesses.

Stricter GHG regulations, stricter limits on sulphur in fuels, emissions regulations in the refinery sector and a revised lower ambient air quality standard for ozone, finalized by the EPA in October 2015, are affecting our US operations. EPA regulations aimed at methane emissions are in place for new and modified sources and the BLM has issued methane regulations for existing sites located on federal lands. The Trump administration is seeking to rescind both of these rules but the timing of any rescission is subject to legal challenges and regulatory requirements.

It is possible that EPA will be required by statute to propose regulations on existing sources of methane from onshore oil and natural gas sector activities, unless the EPA new source methane rule is revised or rescinded.

States may also have separate, stricter air emission laws in addition to the CAA. Despite the US withdrawal from the Paris Agreement, a number of US states, cities and private organizations remain committed to meeting Paris Agreement goals. A number of states also belong to or are considering joining carbon trading markets (e.g. California).

The Energy Policy Act of 2005 and the Energy Independence and Security Act of 2007 impose a renewable fuel mandate (the federal Renewable Fuel Standard) as well as state initiatives that impose low GHG emissions thresholds for transportation fuels (currently

adopted in California, through the California Low Carbon Fuel Standard and Oregon).

EPA regulations impose light, medium and heavy duty vehicle emissions standards for GHGs and permitting requirements for certain large GHG stationary emission sources. California and a number of other states impose different, stricter GHG emission limits on vehicles. These varying standards impact BP's product mix and overall demand.

Under the GHG mandatory reporting rule (GHGMRR), annual reports on GHG emissions must be filed. In addition to direct emissions from affected facilities, producers and importers/exporters of petroleum products, certain natural gas liquids and GHG products are required to report product volumes and notional GHG emissions as if these products were fully combusted.

On 9 October 2017 the EPA announced its intention to repeal the Clean Power Plan (CPP) which was an important element of the Obama administration's Climate Action Plan. The CPP regulations are currently stayed pending resolution of existing legal challenges; the EPA may decline to defend certain of these legal challenges. The EPA's repeal proposal is likely to face legal challenges as well and repeal of the CPP regulations, or adoption of a narrower replacement rule, may not occur until well after 2018. The outcome with respect to these rules will affect electricity generation practices and prices, reliability of electricity supply, and regulatory requirements affecting other GHG emission sources in other sectors and have potential impacts on combined heat and power installations.

In June 2016 the EPA finalized rules aimed at limiting methane emissions from new and modified sources in the oil and natural gas sector in the US by 40-45% from 2012 levels by 2025 that would apply to existing sources in the sector. In January 2017 the BLM's methane rule, aimed at limiting methane emissions from oil and gas operations on federal lands also came into effect. Following the Trump administration's EO 13783, on 16 June 2017 the EPA proposed a two-year stay of portions of the methane regulations for new and modified oil and gas sources. In December 2017, the BLM proposed a 13 month delay of its methane rule. In February 2018, a federal court in California ruled against that 13 month delay. Also in February 2018, the BLM proposed to revise its methane rule.

The final outcome of the rule revisions and legal challenges with respect to implementation of EO 13783 regarding these EPA and BLM rules is uncertain, but may affect our US upstream businesses' management of methane emissions in the US.

A number of states, municipalities and regional organizations have responded to current and proposed federal changes in environmental regulation and a number of additional state and regional initiatives in the US will affect our operations. The California cap and trade programme started in January 2012 and expanded to cover emissions from transportation fuels in 2015, and the State of Washington adopted a carbon cap rule in 2017.

European Union

The EU has agreed to an overall GHG reduction target of 20% by 2020. To meet this, a 'Climate and Energy Package' of regulatory measures was adopted that includes: a collective national reduction target for emissions not covered by the EU Emissions Trading System (EU ETS) Directive; binding national renewable energy targets to double usage of renewable energy sources in the EU, including at least a 10% share of renewable energy in the transport sector under the Renewable Energy Directive (a revision to which was proposed by the European Commission in November 2016); a legal framework to promote carbon capture and storage (CCS); and a revised EU ETS Phase 3. EU ETS revisions included a GHG reduction of 21% from 2005 levels; a significant increase in allowance auctioning; an expansion in the scope of the EU ETS to encompass more industrial sectors (including the petrochemicals sector) and gases; no free allocation for electricity generation (including that which is self-generated off-shore) or production, but sector benchmarked free allocation for all other installations, with sharply declining allocation for sectors deemed not exposed to carbon leakage. EU ETS revisions also included the adoption of a Market Stability Reserve to adjust the supply of auctioned allowances. This will take effect in 2019 and could potentially lead

to higher carbon costs. EU Energy efficiency policy is currently implemented via national energy efficiency action plans and the Energy Efficiency Directive adopted in 2012.

The EU Fuel Quality Directive affects our production and marketing of transport fuels. Revisions adopted in 2009 mandate reductions in the life cycle GHG emissions per unit of energy and tighter environmental fuel quality standards for petrol and diesel.

In October 2014 the EU also agreed to the 2030 Climate and Energy Policy framework with a goal of at least a 40% reduction in GHGs from 1990 and measures to achieve a 27% share of renewable energy and a 27% increase in energy efficiency. The GHG reduction target is to be achieved by a 43% reduction of emissions from sectors covered by the EU ETS, and a 30% GHG reduction by Member States for all other GHG emissions. While the European Commission has made legislative proposals, including proposed amended targets, specific EU legislation and agreements required to achieve these goals are still under discussion in the European Council and European Parliament.

European regulations also establish passenger car performance standards for CO₂ tailpipe emissions (European Regulation (EC) No 443/2009). By 2021, the European passenger fleet emissions target for new vehicles will be 95 grams of CO₂ per kilometre. This target will be achieved by manufacturing fuel efficient vehicles and vehicles using alternative, low carbon fuels such as hydrogen and electricity. In addition, vehicle emission test cycles and vehicle type approval procedures are being updated to improve accuracy of emission and efficiency measurements.

European vehicle CO₂ emission regulations also impact the fuel efficiency of vans. By 2020, the EU fleet of newly registered vans must meet a target of 147 grams of CO₂ per kilometre, which is 19% below the 2012 fleet average. In addition, the Energy Efficiency Directive (EED), Industrial Emissions Directive (IED) 2010, Medium Combustion Plants Directive (MCPD) 2015 and EU regulation on ozone depleting substances 2009 (ODS Regulation) referenced below under 'Other environmental regulation' will also directly or indirectly require reductions in GHG emissions.

Other

Canada's highest emitting province, Alberta, has regulations targeting large final emitters (sites with over 100,000 tonnes of carbon dioxide equivalent per annum) with intensity targets of 2% improvement per year up to 20%. Compliance is possible via direct reductions, the purchase of offsets or the payment of C\$30/tonne to a technology fund. In addition, the Alberta government implemented an economy-wide price of carbon policy that covers emissions not in the scope of the existing regulations for large final emitters (C\$20/tonne in 2017; C\$30/tonne in 2018 then escalating in line with Federal backstop pricing). Changes were also made to electricity generation sources, limits on overall oil sands emissions, and sector specific output-based-allocations (performance standards) have been set such that compliance requirements will now be based on emission intensity relative to top quartile performance in each sector. Compliance obligations, if required, can be satisfied through emission reductions, payments to the government or use of offsets. The Canadian federal government has announced climate change policy goals including a national backstop carbon price starting at C\$10/tonne in 2018 and escalating to C\$50/tonne by 2022 (or equivalent system for provinces with cap-and-trade systems), with implementation of the price and associated large emitters pricing system (modelled on the Alberta output-based-allocation system), use of any funds generated and outcome reporting being managed by each province.

China is operating emission trading pilot programmes in five cities and two provinces and some selected non-pilot provinces have also been approved to engage in emission trading. One of BP's subsidiaries and one of BP's joint venture companies in China are participating in these schemes. A plan on establishing the nationwide carbon emissions trading market (covering power sector only) was promulgated in December 2017 by the National Development and Reform Commission, which will not supersede the above seven pilot programmes immediately but allow those pilot schemes to be incorporated into the national scheme gradually. In July 2016, China carried out pilot programmes on

compensation for and trading of energy quotas in four provinces which may be further expanded in or after 2020. In January 2017, a nationwide pilot scheme on the issuance and voluntary purchase and trading of renewable energy green power certificates was launched and it is expected that the evaluation on renewable energy power quotas and mandatory trading of green power certificates will be launched in 2018.

China has also adopted more stringent vehicle tailpipe emission standards and vehicle efficiency standards to address air pollution and GHG emissions. These standards will have an impact on transportation fuel product mix and overall demand. In addition, China has also introduced a mandate for sales of new energy vehicles (NEVs) commencing in 2020. This will accelerate NEV penetration into the light vehicle sector and impact light fuel demand.

For information on the steps that BP is taking in relation to climate change issues and for details of BP's GHG reporting, see Sustainability – Climate change on page 50.

Other environmental regulation

Current and proposed fuel and product specifications, emission controls (including control of vehicle emissions), climate change programmes and regulation of unconventional oil and gas extraction under a number of environmental laws may have a significant effect on the production, sale and profitability of many of BP's products.

There are also environmental laws that require BP to remediate and restore areas affected by the release of hazardous substances or hydrocarbons associated with our operations or properties. These laws may apply to sites that BP currently owns or operates, sites that it previously owned or operated, or sites used for the disposal of its and other parties' waste. See Financial Statements – Note 21 for information on provisions for environmental restoration and remediation.

A number of pending or anticipated governmental proceedings against certain BP group companies under environmental laws could result in monetary or other sanctions. Group companies are also subject to environmental claims for personal injury and property damage alleging the release of, or exposure to, hazardous substances. The costs associated with future environmental remediation obligations, governmental proceedings and claims could be significant and may be material to the results of operations in the period in which they are recognized. We cannot accurately predict the effects of future developments, such as stricter environmental laws or enforcement policies, or future events at our facilities, on the group, and there can be no assurance that material liabilities and costs will not be incurred in the future. For a discussion of the group's environmental expenditure, see page 265.

A significant proportion of our fixed assets are located in the US and the EU. US and EU environmental, health and safety regulations significantly affect BP's operations. Significant legislation and regulation in the US and the EU affecting our businesses and profitability includes the following:

United States

Since taking office in January 2017, the Trump administration has issued a number of Executive Orders (EO) intended to reform the federal permitting and rulemaking processes to reduce regulatory burdens placed on manufacturing generally and the energy industry specifically. These EOs immediately rescind certain policies and procedures and order the commencement of a broad process to identify other actions that may be taken to further reduce these regulatory requirements. It is not clear how much or how quickly these regulatory requirements will be reduced given statutory and rulemaking constraints and the likely legal challenges to some of these initiatives.

The National Environmental Policy Act (NEPA) requires that the federal government gives proper consideration to the environment prior to undertaking any major federal action that significantly affects the environment, which includes the issuance of federal permits. The environmental reviews required by NEPA can delay projects. State law analogues to NEPA could also limit or delay our projects. On 15 August 2017 the Trump administration issued EO 13807 which directs federal agencies to take certain actions to

streamline the NEPA process although the effect of EO 13807 on our operations remains uncertain.

The CAA regulates air emissions, permitting, fuel specifications and other aspects of our production, distribution and marketing activities.

The Energy Policy Act of 2005 and the Energy Independence and Security Act of 2007 affect our US fuel markets by, among other things, imposing the limitations discussed above under 'Greenhouse gas regulation'. California also imposes Low Emission Vehicle (LEV) and Zero Emission Vehicle (ZEV) standards on vehicle manufacturers. These regulations will have an impact on fuel demand and product mix in California and those states adopting LEV and

ZEV standards. The EPA is currently reassessing the Obama Administration's mid-term evaluation (MTE) of the 2022-25 automobile fuel economy (CAFE) standards. A reassessment of the standards could change original equipment manufacturer (OEM) compliance plans and consequently motor fuel demand. The EPA is expected to complete its assessment in April 2018.

The Clean Water Act regulates wastewater and other effluent discharges from BP's facilities, and BP is required to obtain discharge permits, install control equipment and implement operational controls and preventative measures. The Resource Conservation and Recovery Act regulates the generation, storage, transportation and disposal of wastes associated with our operations and can require corrective action at locations where such wastes have been disposed of or released.

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) can, in certain circumstances, impose the entire cost of investigation and remediation on a party who owned or operated a site contaminated with a hazardous substance, or arranged for disposal of a hazardous substance at a site. BP has incurred, or is likely to incur, liability under CERCLA or similar state laws, including costs attributed to insolvent or unidentified parties. BP is also subject to claims for remediation costs under other federal and state laws, and to claims for natural resource damages under CERCLA, the Oil Pollution Act of 1990 (OPA 90) (discussed below) and other federal and state laws. CERCLA also requires notification of releases of hazardous substances to national, state and local government agencies, as applicable. In addition, the Emergency Planning and Community Right-to-Know Act requires notification of releases of designated quantities of certain listed hazardous substances to state and local government agencies, as applicable.

The Toxic Substances Control Act (TSCA) regulates BP's manufacture, import, export, sale and use of chemical substances and products. In June 2016, the US enacted legislation to modernize and reform TSCA. The EPA has promulgated rules, processes and guidance to implement the reforms. Key components of the reform legislation include: (1) a reset of the TSCA chemical inventory, (2) new chemical management prioritization efforts expanding risk assessment and risk management practices, (3) new confidentiality provisions, and (4) new authority for the EPA to impose a fee structure. In 2017, the EPA finalized details regarding the process and requirements for execution of the TSCA inventory reset. BP is currently collecting the requisite information for submission to the EPA to assure that the chemical substances that are: (i) contained in our manufactured or imported products; (ii) used to manufacture our products; and (iii) used in our operations, continue to be included in the US TSCA inventory.

The Occupational Safety and Health Act imposes workplace safety and health requirements on BP operations along with significant process safety management obligations, requiring continuous evaluation and improvement of operational practices to enhance safety and reduce workplace emissions at gas processing, refining and other regulated facilities. In 2016 the Obama administration announced that the US Occupational Safety and Health Administration (OSHA) would implement a 'National Emphasis Program' set of inspections aimed at refineries and petrochemical facilities. The Trump administration has not made any announcement regarding its intentions for this program.

The US Department of Transportation (DOT) regulates the transport of BP's petroleum products such as crude oil, gasoline, petrochemicals and other hydrocarbon liquids.

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The Maritime Transportation Security Act and the DOT Hazardous Materials (HAZMAT) regulations impose security compliance regulations on certain BP facilities.

OPA 90 is implemented through regulations issued by the EPA, the US Coast Guard, the DOT, the OSHA, the Bureau of Safety and Environmental Enforcement and various states. Alaska and the West Coast states currently have the most demanding state requirements.

The Outer Continental Shelf Land Act, the MLA and other statutes give the Department of Interior (DOI) and the BLM authority to regulate operations and air emissions on offshore and onshore operations on federal lands subject to DOI authority. New stricter regulations on operational practices, equipment and testing have been imposed on our operations in the Gulf of Mexico and elsewhere following the Deepwater Horizon oil spill.

The Endangered Species Act and Marine Mammal Protection Act protect certain species from adverse human impacts. The species and their habitat may be protected thereby restricting operations or development at certain times and in certain places. With an increasing number of species being protected, we have increasing restrictions on our activities.

European Union

The Energy Efficiency Directive (EED) was adopted in 2012. It requires EU member states to implement an indicative 2020 energy saving target and apply a framework of measures as part of a national energy efficiency programme, including mandatory energy efficiency audits. This directive has been implemented in the UK by the Energy Savings Opportunity Scheme Regulations 2014, which affects our offshore and onshore assets. The ISO50001 standard is being implemented by organizations in some EU states to meet some elements of the EED. A revision to the EED was proposed by the European Commission in November 2016, which includes a new energy efficiency target for 2030.

The Industrial Emissions Directive (IED) 2010 provides the framework for granting permits for major industrial sites. It lays down rules on integrated prevention and control of air, water and soil pollution arising from industrial activities. As part of the IED framework, additional emission limit values are informed by sector specific and cross-sector Best Available Technology (BAT) Conclusions, such as the BAT Conclusions for the refining sector, for large combustion plants as well as common waste water and waste gas treatment and management systems in the chemical sector. These may result in requirements for BP to further reduce its emissions, particularly its air and water emissions.

The Medium Combustion Plants Directive (MCPD) came into force on 18 December 2015, with a deadline for implementation by member states of 19 December 2017. It applies to air emissions of sulphur dioxide (SO₂), nitrogen oxides (NO_x) and particulates from the combustion of fuels in plants with a rated thermal input between one and 50MW. It also includes requirements to monitor emissions of carbon monoxide (CO) from such plant. Its requirements will be phased in – the emission limit values set in the Directive will apply from 20 December 2018 for new plants and by 2025 or 2030 for existing plants, depending on their size.

The National Emission Ceiling Directive 2016 entered into force on 31 December 2016, replacing earlier legislation. It introduces stricter emissions limits from 2020 and 2030, with new indicative national targets applying from 2025. The new Directive must be implemented by EU member states by 1 July 2018.

The EU regulation on ozone depleting substances 2009 (ODS Regulation) requires BP to reduce the use of ozone depleting substances (ODSs) and phase out use of certain ODSs. BP continues to replace ODSs in refrigerants and/or equipment in the EU and elsewhere, in accordance with the Montreal Protocol and related legislation. The Kigali Amendment to the Montreal Protocol (which aims to reduce hydrofluorocarbons) will come into force from 1 January 2019. In addition, the EU regulation on fluorinated GHGs with high global warming potential (the F-gas Regulations) require a phase-out of certain hydrofluorocarbons, based on global warming potential.

The EU Registration, Evaluation Authorization and Restriction of Chemicals (REACH) Regulation 2006 requires registration of chemical substances manufactured in or imported into the EU,

together with the submission of relevant hazard and risk data. REACH affects our manufacturing or trading/import operations in the EU. Since coming into force in 2007, REACH implementation has followed a phase-in schedule defined by the EU. The final phase-in implementation deadline requires registration of substances manufactured or imported in the tonnage-band of 1-100 tonnes per annum per legal entity by 31 May 2018. BP is in the process of

preparing and submitting registration dossiers to meet this final REACH implementation milestone. For higher tonnage-band substances (i.e. 100 tonnes per annum or greater), BP maintains compliance by checking whether imports are covered by the registrations of non-EU suppliers' representatives, preparing and submitting registration dossiers to cover new manufactured and imported substances, and updating previously submitted registrations as required. Some substances registered previously, including substances supplied to us by third parties for our use, are now subject to evaluation and review for potential authorization or restriction procedures, and possible banning, by the European Chemicals Agency and EU member state authorities. In addition, BP's facilities and operations in several EU countries have undergone REACH compliance inspections by the competent authority for the respective EU member state.

The EU Offshore Safety Directive was adopted in 2013. Its purpose is to introduce a harmonized regime aimed at reducing the potential environmental, health and safety impacts of the offshore oil and gas industry throughout EU waters. The Directive has been implemented in the UK primarily through the Offshore Installations (Offshore Safety Directive) (Safety Case etc.) Regulations 2015.

The Water Framework Directive (WFD) published in 2000 aims to protect the quantity and quality of ground and surface waters of the EU member states. The ongoing implementation of the WFD and the related Environmental Quality Standards Directive 2008 as well as the planned review of the WFD in 2019 is likely to require additional compliance efforts and increased costs for managing freshwater withdrawals and discharges from BP's EU operations. Regulations governing the discharge of treated water have also been developed in countries outside of the US and EU. This includes regulations in Trinidad and Angola. In Trinidad, BP is upgrading its water treatment facilities to meet consent levels agreed with the regulators to apply water discharge rules arising from the Certificate of Environmental Clearance (CEC) Regulations 2001 and associated Water Pollution Rules 2007. In Angola, BP has upgraded produced water treatment systems to meet revised oil in water limits for produced water discharge under Executive Decree ED 97-14 (superseded ED 12/05 on 1 January 2016).

Environmental maritime regulations

BP's shipping operations are subject to extensive national and international regulations governing liability, operations, training, spill prevention and insurance. These include:

Liability and spill prevention and planning requirements governing, among others, tankers, barges and offshore facilities are imposed by OPA in US waters. It also mandates a levy on imported and domestically produced oil to fund oil spill responses. Some states, including Alaska, Washington, Oregon and California, impose additional liability for oil spills. Outside US territorial waters, BP Shipping tankers are subject to international liability, spill response and preparedness regulations under the UN's International Maritime Organization (IMO), including the International Convention on Civil Liability for Oil Pollution Damage, the International Convention for the Prevention of Pollution from Ships (MARPOL), the International Convention on Oil Pollution, Preparedness, Response and Co-operation and the International Convention on Civil Liability for Bunker Oil Pollution Damage. In April 2010, the Hazardous and Noxious Substance (HNS) Protocol 2010 was adopted to address issues that have inhibited ratification of the International Convention on Liability and Compensation for Damage in Connection with the Carriage of Hazardous and Noxious Substances by Sea 1996. As at 31 December 2017, as the required minimum number of contracting states had not been achieved, the HNS Convention had not entered into force.

A global sulphur cap of 0.5% will apply to marine fuel from January 2020 under MARPOL. In order to comply, ships will either need to

consume low sulphur marine fuels or implement approved abatement technology to enable them to meet the low sulphur emissions requirements whilst continuing to use higher sulphur fuel. This new global cap will not alter the lower limits that apply in the sulphur oxides Emissions Control Areas established by the IMO.

Ships are required to have ballast water treatment systems in place within the time frame prescribed by the International Convention for the Control and Management of Ships' Ballast Water and Sediments 2004, which entered into force in September 2017.

The Convention for the Protection of the Marine Environment of the North-East Atlantic (OSPAR), entered into force in March 1998, is an international convention which aims to protect the marine environment of the North-East Atlantic. OSPAR has 16 contracting parties, including the UK Government. Work carried out in accordance with OSPAR is managed by the OSPAR Commission, which is made up of government representatives of the 15 contracting parties and the European Union. OSPAR Recommendation 2001/1 relates to the management of produced water from offshore installations in the North Sea. The OSPAR Commission has set a target of a 15% reduction in the total quantity of oil in produced water discharged, and more recently, guidelines for the implementation of a risk-based approach to the management of produced water discharges from offshore installations were adopted (OSPAR Recommendation 2012/5).

The EU shipping monitoring, reporting and verification (MRV) regulation entered into force in July 2015 and is aimed at gathering data on CO₂ emissions based on ships' fuel consumption. It is considered the first step of a staged approach for the inclusion of maritime transport emissions in the EU's GHG reduction commitment. In parallel, through amendments to MARPOL Annex VI, the IMO Data Collection System (DCS) for collecting and analysing fuel consumption data is due to come into effect in March 2018.

To meet its financial responsibility requirements, BP Shipping maintains marine pollution liability insurance in respect of its operated ships to a maximum limit of \$1 billion for each occurrence through mutual insurance associations (P&I Clubs), although there can be no assurance that a spill will necessarily be adequately covered by insurance or that liabilities will not exceed insurance recoveries.

Legal proceedings

Proceedings relating to the Deepwater Horizon oil spill

Introduction

BP Exploration & Production Inc. (BPXP) was lease operator of Mississippi Canyon, Block 252 in the Gulf of Mexico (Macondo), where the semi-submersible rig Deepwater Horizon was deployed at the time of the 20 April 2010 explosions and fire and resulting oil spill (the Incident). Lawsuits and claims arising from the Incident have generally been brought in US federal and state courts.

Many of the lawsuits in federal court relating to the Incident were consolidated by the Federal Judicial Panel on Multidistrict Litigation into two multi-district litigation proceedings, one in federal district court in Houston for the securities, derivative and Employee Retirement Income Security Act (ERISA) cases (MDL 2185) and another in federal district court in New Orleans for the remaining cases (MDL 2179). A Plaintiffs' Steering Committee (PSC) was established to act on behalf of individual and business plaintiffs in MDL 2179. All federal and state claims in relation to the Incident have now been settled or dismissed and the five-year probation period under the criminal plea agreement with the US Department of Justice came to an end in January 2018. The remaining proceedings arising from the Incident are discussed below. For further details of the consent decree and settlement agreement with the United States federal government and five Gulf Coast states, see 'Legal proceedings' in BP Annual Report and Form 20-F 2015.

PSC settlements

PSC settlements – Economic and Property Damages Settlement Agreement

The Economic and Property Damages Settlement resolved certain economic and property damage claims. It also resolved property damage in certain areas along the Gulf Coast, as well as claims for additional payments under certain Master Vessel Charter Agreements entered into in the course of the Vessels of Opportunity Program implemented as part of the response to the Incident.

The economic and property damages claims process is under court supervision through the settlement claims process established by the Economic and Property Damages Settlement. This provides that class members release and dismiss their claims against BP not expressly reserved by that agreement. The final deadline for filing all claims was 8 June 2015.

Following numerous court decisions, on 31 March 2015 the district court denied the PSC's motion seeking to alter or amend a revised policy, addressing the matching of revenue and expenses for business economic loss claims, which required the matching of revenue with the expenses incurred by claimants to generate that revenue, even where the revenue and expenses were recorded at different times. The PSC appealed this decision and, on 22 May 2017, the Fifth Circuit issued an opinion upholding the policy in part and reversing the policy in part. The Fifth Circuit ordered that the portion of the policy upheld, which covers the substantial majority of the remaining business economic loss claims, be applied as the governing methodology for all applicable business economic loss claims. On 25 May 2017, 13 June 2017, and 5 July 2017, the district court issued a series of orders instructing the court supervised settlement programme on how to implement the Fifth Circuit's opinion. On 10 August 2017, the district court denied BP's motion to clarify or reconsider its orders. BP appealed all of these orders and decisions on 8 September 2017 and that appeal has been consolidated with four appeals filed by claimants in early to mid-September 2017. Those four claimant appeals also challenge the same set of district court orders and decisions, albeit raising different issues than are raised by BP's appeal. These appeals are currently pending before the Fifth Circuit.

On 17 March 2017, the district court issued an order regarding approximately 150 claimants in the economic and property damages claims process whose claims had been subject to a

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hold pending the development of agreed-upon guidance that the claims administrator shall apply in making compensation determinations that adhere to the moratoria exclusion in the Economic and Property Damages Settlement. The court ordered that those claimants with claims remaining in moratoria hold without a resolution of their claims had the opportunity to opt that claim out from the claims process by 24 April 2017 and pursue the claim in litigation. On 19 July 2017 the district court issued an order finding that 13 plaintiffs validly opted claims out of moratoria hold and complied with the relevant court order, and that those plaintiffs' claims under the Oil Pollution Act of 1990 (OPA 90) would be subject to further proceedings in MDL 2179 (see 'Other civil complaints - economic loss' below).

As a result of significantly higher average claims determinations issued by the court supervised settlement programme in the fourth quarter of 2017 and the continuing effect of the May 2017 Fifth Circuit opinion, the provision for the costs associated with the Economic and Property Damages Settlement was increased in the fourth quarter of 2017. The amounts ultimately payable may differ from the amount provided and the timing of payments is uncertain. For more information about BP's current estimate of the total cost of the Economic and Property Damages Settlement, see Financial statements – Note 2.

PSC settlements – Medical Benefits Class Action Settlement

The Medical Benefits Class Action Settlement (Medical Settlement) involves payments to qualifying class members based on a matrix for certain Specified Physical Conditions (SPCs), as well as a 21-year Periodic Medical Consultation Program (PMCP) for qualifying class members, and also includes provisions regarding class members pursuing claims for later-manifested physical conditions (LMPCs).

The deadline for submitting SPC and PMCP claims was 12 February 2015. The Medical Claims Administrator has reported the total number of claims submitted is 37,225. As of 26 January 2018, 27,592 claims (comprising 22,796 SPC and 4,796 PMPC only) have been approved for compensation totalling approximately \$67 million; 9,546 claims have been denied; and 87 claims are pending determination. In addition, there are 16 pending lawsuits brought by class members claiming LMPCs.

For further details of the Medical Settlement, see 'Legal proceedings' in BP Annual Report and Form 20-F 2015.

Other civil complaints – economic loss

Following various court orders by the district court in MDL 2179 in 2016, the vast majority of economic loss and property damage claims from individuals and businesses that either opted out of the 2012 settlement with the Plaintiffs' Steering Committee and/or were excluded from that settlement have either been resolved or dismissed. However, several groups of plaintiffs whose claims were dismissed by the district court have four appeals pending in the Fifth Circuit, and briefing of those appeals is currently underway. In addition, on 22 March 2017, BP moved to dismiss the claims of certain plaintiffs with economic loss claims on the grounds that they had previously released their claims or had failed to meet the OPA 90 requirement that plaintiffs present their claims to the Responsible Party prior to filing suit. On 21 September 2017, the district court granted in part BP's motion regarding presentment and, on 20 October 2017, the district court granted in part BP's motion regarding release; certain of the plaintiffs have brought appeals challenging these orders. On 11 January 2018, the district court issued an order requiring all remaining plaintiffs in MDL 2179 with economic loss or property damage claims to file by 11 April 2018 a verified sworn statement regarding the actual damages each such plaintiff seeks in its pending litigation and an explanation of how those alleged damages were causally related to the Incident.

Following the resolution in 2016 of the vast majority of those economic claims opted out of and/or excluded from of the 2012 PSC settlement, referred to above, in 2017 the district court addressed the maritime claims. On 22 February 2017 the district court in MDL 2179 ordered that any remaining plaintiffs who wish to pursue a general maritime law claim must file and serve on BP a sworn statement as to their proprietary interest in property

physically damaged by oil, and whether they worked as commercial fishermen, by 5 April 2017. On 19 July 2017 the district court issued an order finding that 215 plaintiffs, who had complied with the court's previous orders, had also complied with the court's 22 February 2017 order. The district court held that those plaintiffs' claims would be subject to further proceedings in MDL 2179 under OPA 90 and under general maritime law. The court dismissed with prejudice all other claims for economic loss brought by private plaintiffs under general maritime law and certain of these plaintiffs moved for reconsideration. On 8 November 2017, the district court denied most of the motions for

reconsideration of the 19 July 2017 order but granted in part several of the motions, ruling that an additional six plaintiffs had complied with the 22 February 2017 order regarding general maritime law claims and thus that their claims under general maritime law were not dismissed. The district court also ruled that an additional five plaintiffs had complied with previous of the court's orders but not the 22 February 2017 order regarding general maritime law claims and thus would be subject to further proceedings in MDL 2179 on their claims under OPA 90, but not their claims under general maritime law. Five groups of plaintiffs whose motions were denied by the 8 November 2017 order filed appeals in the Fifth Circuit, and those appeals remain pending.

Other civil complaints – personal injury

On 18 July 2017, the district court in MDL 2179 issued an order identifying 960 plaintiffs whose claims for post-explosion clean-up, medical monitoring and personal injury claims occurring after the Incident will be subject to further proceedings in MDL 2179. The court dismissed with prejudice any other private plaintiffs' post-explosion clean-up, medical monitoring and personal injury claims and certain of these plaintiffs moved for reconsideration. On 6 December 2017, the district court denied most of the motions for reconsideration, granting some in part, and certain groups of plaintiffs whose motions were denied have appealed the order to the Fifth Circuit. Accordingly the vast majority of post-explosion clean-up, medical monitoring and personal injury claims from individuals that either opted out of the 2012 settlement with the Plaintiffs' Steering Committee and/or were excluded from that settlement have been dismissed.

MDL 2185 and other securities-related litigation

Since the Incident, shareholders have sued BP and various of its current and former officers and directors asserting shareholder derivative claims and class and individual securities fraud claims. Many of these lawsuits have been consolidated or co-ordinated in federal district court in Houston (MDL 2185).

Securities class action

Following various legal proceedings, a class of post-explosion ADS purchasers from 26 April 2010 to 28 May 2010 was certified, and in June 2016, BP agreed with plaintiffs' representatives to settle the class claims for \$175 million, subject to approval by the court. The parties filed the settlement agreement and other papers in support of approval with the court on 15 September 2016 and a class notice was issued on 14 November 2016. On 13 February 2017 the court granted final approval of the class settlement, and all settlement payments were made in 2017.

Individual securities litigation

From April 2012 to April 2016, 37 cases were filed in state and federal courts by pension funds, investment funds and advisers against BP entities and several current and former officers and directors seeking damages for alleged losses those funds suffered because of their purchases and/or holdings of BP ordinary shares and, in certain cases, ADSs. The funds assert claims under English law and, for plaintiffs purchasing ADSs, federal securities law, and seek damages for alleged losses that those funds suffered because of their purchases and holdings of BP ordinary shares and/or ADSs. All of the cases, with the exception of one case that has been stayed, have been transferred to MDL 2185. On 28 September 2016, defendants filed a motion to dismiss certain claims against certain defendants in 20 of the individual securities cases. In a decision issued on 30 June 2017, the district court dismissed many of plaintiffs' claims based on alleged losses from holdings (as opposed to purchases) of BP ordinary shares and dismissed claims based on all but one of the

alleged misstatements that had not been addressed by the court's prior decisions. On 17 July 2017, defendants moved for reconsideration on the one alleged misstatement that the district court did not dismiss; on 28 July 2017, plaintiffs opposed that motion and cross-moved for reconsideration on three alleged misstatements that the court dismissed. On 19 January 2018, the court denied defendants' motion and plaintiffs' cross-motion. On 2 June 2017, defendants moved to dismiss one action in which plaintiffs seek to pursue an English law negligent misstatement claim based upon seven meetings with BP employees, on behalf of a class of all institutional investors who engaged and delegated full investment authority to Mondrian Investment Partners.

On 7 December 2017, plaintiffs filed an amended complaint. On 9 February 2018, defendants filed a renewed motion to dismiss that amended complaint. The plaintiffs in an individual action asserting only Exchange Act claims voluntarily dismissed their case on 15 February 2018. Further, on 16 February 2018, defendants moved for judgment on the pleadings dismissing, as time-barred, all Exchange Act claims in the remaining individual actions based on alleged misstatements made more than five years before the filing of the actions. The plaintiffs in three cases have elected to participate in the ADS securities class action settlement and, accordingly, their individual cases were dismissed.

Canadian class actions

Following various legal proceedings, on 26 February 2016, a plaintiff seeking to assert claims under Canadian law against BP on behalf of a class of Canadian residents who allegedly suffered losses because of their purchase of BP ordinary shares and ADSs filed a motion in the Court of Appeal for Ontario to lift a stay on the action. The plaintiff's motion was granted on 29 July 2016. On 23 June 2017, BP moved for summary judgment and on 1 September 2017 the court granted in part and denied in part that motion, limiting the case to three alleged misstatements and narrowing the class period. On 29 September 2017, plaintiff filed a notice of appeal of that decision.

On 15 December 2017, plaintiffs in a purported class action that was filed in 2012 in Alberta, Canada, and not pursued, filed an application seeking advice and directions regarding continuing their action; a conference on that application has not yet been scheduled.

Non-US government lawsuits

On 5 April 2011, the Mexican State of Yucatan submitted a claim to the Gulf Coast Claims Facility (GCCF) alleging potential damage to its natural resources and environment, and seeking to recover the cost of assessing the alleged damage. This was followed by a suit against BP which was transferred to MDL 2179. On 5 April 2017, BP moved to dismiss the State of Yucatan's claims, and the court granted BP's motion to dismiss on 6 March 2018.

On 19 April 2013, the Mexican federal government filed a civil action against BP and others in MDL 2179. The complaint seeks a determination that each defendant bears liability under OPA 90 for damages that include the costs of responding to the spill, natural resource damages allegedly recoverable by Mexico as an OPA 90 trustee and the net loss of taxes, royalties, fees or net profits. The claims in this civil action were resolved by agreement effective 15 February 2018.

On 18 October 2012, before a Mexican Federal District Court located in Mexico City, a class action complaint was filed against BXP, BPAPC and other BP subsidiaries. BXP has since been dismissed. The plaintiffs, who allegedly are fishermen, are seeking, among other things, compensatory damages for the class members who allegedly suffered economic losses, as well as an order requiring BP to remediate environmental damage resulting from the Incident, to provide funding for the preservation of the environment and to conduct environmental impact studies in the Gulf of Mexico for the next 10 years. BP has not been formally served with the action. However, after learning that the Mexican Federal District Court issued a resolution certifying the class on 2 December 2015, BP filed a constitutional challenge (amparo) in Mexico on 13 April 2016 asserting that BP has never been formally served with process in the class action. This amparo was denied on 22 November 2016 and the appeal was also denied on 17 August 2017. BP has not been formally served with the class certification decision, which is required before the

action can go forward.

On 3 December 2015 and 29 March 2016, Acciones Colectivas de Sinaloa (ACS) filed two class actions (which have since been consolidated) in a Mexican Federal District Court on behalf of several Mexican states against BXP, BPAPC, and other purported BP subsidiaries. In these class actions, plaintiffs seek an order requiring the BP defendants to repair the damage to the Gulf of Mexico, to pay penalties, and to compensate plaintiffs for damage to

property, to health and for economic loss. A Mexican BP entity was served with the complaint on 23 January 2018 and opposed class certification and sought dismissal on 30 January 2018 on the basis that the entity did not exist at the time of the spill. BPXP was formally served with the action on 8 December 2017. BPXP opposed class certification and sought dismissal on 1 February 2018, principally on the basis that that no oil reached Mexican waters or land and there was no economic or environmental harm in Mexico.

Other legal proceedings

FERC and CFTC matters

Following an investigation by the US Federal Energy Regulatory Commission (FERC) and the US Commodity Futures Trading Commission (CFTC) of several BP entities, the Administrative Law Judge of the FERC ruled on 13 August 2015 that BP manipulated the market by selling next-day, fixed price natural gas at Houston Ship Channel in 2008 in order to suppress the Gas Daily index and benefit its financial position. On 11 July 2016 the FERC issued an Order affirming the initial decision and directing BP to pay a civil penalty of \$20.16 million and to disgorge \$207,169 in unjust profits. On 10 August 2016, BP filed a request for rehearing with the FERC. BP strongly disagrees with the FERC's decision and will ultimately appeal to the US Court of Appeals if necessary.

Investigations by the FERC and CFTC into BP's trading activities continue to be conducted from time to time.

OSHA matters

On 8 March 2010, the US Occupational Safety and Health Administration (OSHA) issued 65 citations to BP Products North America Inc. (BP Products) and BP-Husky Refining LLC (BP-Husky) for alleged violations of the Process Safety Management (PSM) standard at the Toledo refinery, with penalties of approximately \$3 million. These citations resulted from an inspection conducted pursuant to OSHA's Petroleum Refinery Process Safety Management National Emphasis Program. Both BP Products and BP-Husky contested the citations. The outcome of a pre-trial settlement of a number of the citations and a trial of the remainder was a reduction in the total penalty in respect of the citations from the original amount of approximately \$3 million to \$80,000. The OSH Review Commission granted OSHA's petition for review and briefing was completed in the first half of 2014. Timing for the issuance of a decision by the Review Commission is currently uncertain. Depending on the outcome of this review, BP may also pay a penalty not to exceed \$1 million in respect of similar issues at the BP Texas City refinery.

Prudhoe Bay leak

In March and August 2006, oil leaked from oil transit pipelines operated by BP Exploration (Alaska) Inc. (BPXA) at the Prudhoe Bay unit on the North Slope of Alaska. On 12 May 2008, a BP p.l.c. shareholder filed a consolidated complaint alleging violations of federal securities law on behalf of a putative class of BP p.l.c. shareholders, based on alleged misrepresentations concerning the integrity of the Prudhoe Bay pipeline before its shutdown on 6 August 2006. On 7 December 2015, the complaint was dismissed with prejudice. On 5 January 2016, plaintiffs filed a notice of appeal of that decision to the Ninth Circuit Court of Appeals, and briefing was completed on that appeal on 14 October 2016.

Lead paint matters

Since 1987, Atlantic Richfield Company (Atlantic Richfield), a subsidiary of BP, has been named as a co-defendant in numerous lawsuits brought in the US alleging injury to persons and property caused by lead pigment in paint. The majority of the lawsuits have been abandoned or dismissed against Atlantic

Richfield. Atlantic Richfield is named in these lawsuits as alleged successor to International Smelting and Refining and another company that manufactured lead pigment during the period 1920-1946. The plaintiffs include individuals and governmental entities. Several of the lawsuits purport to be class actions. The lawsuits seek various remedies including compensation to lead-poisoned children, cost to find and remove lead paint from buildings, medical monitoring and screening programmes, public warning and education of lead hazards, reimbursement of government healthcare costs and special education for lead-poisoned citizens and punitive damages. No lawsuit against Atlantic Richfield has been settled nor has Atlantic Richfield been subject to a final adverse judgment in any proceeding. The amounts claimed and, if such suits were successful, the costs of implementing the remedies sought in the various cases could be substantial. While it is not possible to predict the outcome of these legal actions, Atlantic Richfield believes that it has valid defences. It intends to defend such actions vigorously and believes that the incurrence of liability is remote. Consequently, BP believes that the impact of these lawsuits on the group's results, financial position or liquidity will not be material.

California False Claims Act matters

On 4 November 2014, the California Attorney General filed a notice in California state court that it was intervening in a previously-sealed California False Claims Act (CFCA) lawsuit filed by relator Christopher Schroen against BP, BP Energy Company, BP Corporation North America Inc., BP Products and BPAPC. On 7 January 2015, the California Attorney General filed a complaint in intervention alleging that BP violated the CFCA and the California Unfair Competition Law by falsely and fraudulently overcharging California state entities for natural gas. The relator's complaint made similar allegations in addition to individual claims. In January 2018 the parties reached a settlement pursuant to which BP, while denying liability, agreed to pay \$102 million to the state of California.

Scharfstein v. BP West Coast Products, LLC

A class action lawsuit was filed against BP West Coast Products, LLC in Oregon State Court under the Oregon Unlawful Trade Practices Act on behalf of customers who used a debit card at ARCO gasoline stations in Oregon during the period 1 January 2011 to 30 August 2013, alleging that ARCO sites in Oregon failed to provide sufficient notice of the 35 cents per transaction debit card fee. In January 2014, the jury rendered a verdict against BP and awarded statutory damages of \$200 per class member. On 25 August 2015, the trial court determined the size of the class to be slightly in excess of two million members. On 31 May 2016 the trial court entered a judgment for the amount of \$417.3 million. BP appealed and oral argument was heard in August 2017. The Oregon Court of Appeal has not yet issued its decision. No provision has been made for damages arising out of this class action.

International trade sanctions

During the period covered by this report, non-US subsidiaries, or other non-US entities of BP, conducted limited activities in, or with persons from, certain countries identified by the US Department of State as State Sponsors of Terrorism or otherwise subject to US and EU sanctions (Sanctioned Countries). Sanctions restrictions continue to be insignificant to the group's financial condition and results of operations. BP monitors its activities with Sanctioned Countries, persons from Sanctioned Countries and individuals and companies subject to US and EU sanctions and seeks to comply with applicable sanctions laws and regulations.

The US and the EU implemented temporary, limited and reversible relief of certain sanctions related to Iran pursuant to a Joint Comprehensive Plan of Action (JCPOA). As a result of the JCPOA, BP has considered and developed possible business opportunities in relation to Iran, engaged in discussions with Iranian government officials and other Iranian nationals and attended conferences, and will continue to do so.

The North Sea Rhum field (Rhum) is owned under a 50:50 unincorporated joint arrangement between BP and Iranian Oil Company (U.K.) Limited (IOC). BP obtained an updated OFAC licence in relation to the continued operation of Rhum on 29 September 2017. On 21 November 2017, BP announced that it has agreed to sell certain of its assets in the North Sea, including its ownership stake, and the transfer of its role as operator, in the Rhum joint arrangement to Serica Energy plc. The sale and transfer of ownership is subject to regulatory and third-party approvals and is expected to complete in the third quarter of 2018.

BP has a 28.8% interest in and operates the Azerbaijan Shah Deniz field (Shah Deniz) and a related gas pipeline entity, South Caucasus Pipeline Company Limited (SCPC), and has a 23% non-operated interest in a related gas

marketing entity, Azerbaijan Gas Supply Company Limited (AGSC), Naftiran Intertrade Co. Limited and NICO SPV Limited (collectively, NICO) have a 10% non-operating interest in each of Shah Deniz and SCPC and an 8% non-operating interest in AGSC. Shah Deniz, SCPC and AGSC continue in operation as they were excluded from the main operative provisions of the EU regulations as well as from the application of the US sanctions, and fall within the exception for certain natural gas projects under Section 603 of the Iran Threat Reduction and Syria Human Rights Act of 2012 (ITRA).

BP holds an interest in a non-BP operated Indian joint venture and sold produced crude oil to an Indian entity in which NICO holds a minority, non-controlling stake.

Both the US and the EU have enacted strong sanctions against Syria, including a prohibition on the purchase of Syrian-origin crude and a US prohibition on the provision of services to Syria by US persons. The EU sanctions against Syria include a prohibition on supplying certain equipment used in the production, refining, or liquefaction of petroleum resources, as well as restrictions on dealing with the Central Bank of Syria and numerous other Syrian financial institutions.

Following the imposition in 2011 of further US and EU sanctions against Syria, BP terminated all sales of crude oil and petroleum products into Syria, though BP continues to supply aviation fuel to non-governmental Syrian resellers outside of Syria.

BP sells lubricants in Cuba through a 50:50 joint arrangement and trades in small quantities of lubricants.

During 2014 the US and the EU imposed sanctions on certain Russian activities, individuals and entities, including Rosneft. Certain sectoral sanctions also apply to entities owned 50% or more by entities on the relevant sectoral sanctions list. In August 2017, new Russia related sanctions were passed in the US which target among other things: (i) Russian energy export pipelines; (ii) privatisation of state owned assets in Russia; and (iii) certain international offshore Arctic, deepwater and/or shale E&P oil projects. We are not aware of any material adverse effect on our current income and investment in Russia or elsewhere.

BP has registered and paid required fees to maintain registrations of patents and trade marks in Sanctioned Countries.

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BP has equity interests in non-operated joint arrangements with air fuel sellers, resellers, and fuel delivery services around the world. From time to time, the joint arrangement operator or other partners may sell or deliver fuel to airlines from Sanctioned Countries or flights to Sanctioned Countries, without BP's involvement.

BP has no control over the activities non-controlled associates may undertake in Sanctioned Countries or with persons from Sanctioned Countries.

Disclosure pursuant to Section 219 of ITRA

To our knowledge, none of BP's activities, transactions or dealings are required to be disclosed pursuant to ITRA Section 219, with the following possible exceptions:

Rhum, located in the UK sector of the North Sea, is operated by BP Exploration Operating Company Limited (BPEOC), a non-US subsidiary of BP. Rhum is owned under a 50:50 unincorporated joint arrangement between BPEOC and Iranian Oil Company (U.K.) Limited (IOC). During 2017, BP recorded gross revenues of \$124 million related to its interests in Rhum. BP had a net profit of \$42 million for the year ended 31 December 2017, including an impairment reversal of \$16.7 million in the second quarter of 2017. As noted above, BP has agreed to sell its ownership stake in the Rhum joint arrangement and transfer its role as operator to Serica Energy plc.

In November 2017, BPEOC entered into an agreement with IOC for the sale and purchase of an IOC entitlement to Forties blend crude oil. The parties agreed to set off the purchase price – £29.89 million (\$40.2 million equivalent) – against IOC's share of operating costs incurred or to be incurred by BPEOC as operator of the Rhum field under the Rhum joint operating agreement. 604,976 net barrels of Forties blend crude oil was loaded at a North Sea terminal in January 2018 and delivered to BP's Rotterdam refinery. Upon delivery at BP's Rotterdam refinery, the Forties blend crude oil was comingled with other products for refining, and therefore BP is unable to ascertain an amount of gross revenue or gross profit attributable to it. BP does not expect to enter into any further similar arrangements with IOC in relation to the Rhum field.

A third-party UK entity's purchase of IOC's share of Rhum natural gas was settled by an assignment of receivables on 13 October 2017 pursuant to which BPEOC received £15 million (\$19.3 million equivalent) from the UK entity, which would otherwise have been payable to Naftiran Intertrade Company (NICO) Limited. The £15 million (\$19.3 million equivalent) has also been set off against IOC's share of operating costs incurred by BPEOC as operator of the Rhum field under the Rhum joint operating agreement. BP does not expect to enter into any further arrangements with NICO in relation to the Rhum field.

In December 2016, BP Singapore Pte. Limited (BPS) purchased a shipment of South Pars condensate from the National Iranian Oil Company (NIOC), which was loaded in Iran on 23 December 2016 and delivered to BP's Rotterdam refinery on 15 January 2017. BPS made a payment (\$52 million equivalent) in consideration for the condensate on 19 January 2017. Upon delivery, the condensate was comingled with other products for refining, and therefore BP is unable to ascertain an amount of gross revenue or gross profit attributable to it. BP intends to continue to explore commercial opportunities with NIOC (or its subsidiaries).

BP Iran Limited leases an office in Tehran. The office is used for administrative activities. In 2017, rental tax payments associated with the Tehran office, with an aggregate US dollar equivalent value of approximately \$19,000, were paid from a BP trust account held with Tadvin Co. to Iranian public entities. No gross revenues or net profits were attributable to these activities. BP intends to continue to maintain an office in Tehran.

During 2017, certain BP employees visited Iran for the purpose of meetings with Iranian government officials and other Iranian nationals and attending conferences. Payments were made to Iranian public entities for visas and taxes in relation to such visits with an aggregate US dollar equivalent value of approximately \$12,000. In addition, certain BP employees met with Iranian government officials and other Iranian nationals outside of Iran. No gross revenues or net profits were attributable to these activities, save where otherwise disclosed, and BP intends to continue visits

to Iran and other meetings in connection with various business opportunities.

Material contracts

On 13 March 2014, BP, BP Exploration & Production Inc., and other BP entities entered into an administrative agreement with the US Environmental Protection Agency, which resolved all issues related to the suspension or debarment of BP entities arising from the 20 April 2010 explosions and fire on the semi-submersible rig Deepwater Horizon and resulting oil spill. The administrative agreement allows BP entities to enter into new contracts or leases

with the US government. Under the terms and conditions of this agreement, which will apply for five years, BP has agreed to a set of safety and operations, ethics and compliance and corporate governance requirements. The agreement is governed by federal law.

On 4 April 2016 the district court approved the Consent Decree among BP Exploration & Production Inc., BP Corporation North America Inc., BP p.l.c., the United States and the states of Alabama, Florida, Louisiana, Mississippi and Texas (the Gulf states) which fully and finally resolves any and all natural resource damages (NRD) claims of the United States, the Gulf states, and their respective natural resource trustees and all Clean Water Act (CWA) penalty claims, and certain other claims of the United States and the Gulf states.

Concurrently, the definitive Settlement Agreement that BP entered into with the Gulf states (Settlement Agreement) with respect to State claims for economic, property and other losses became effective.

BP has filed the Consent Decree and the Settlement Agreement as exhibits to its Annual Report on Form 20-F 2017 filed with the SEC. For further details of the Consent Decree and the Settlement Agreement, see Legal proceedings in BP Annual Report and Form 20-F 2015.

Property, plant and equipment

BP has freehold and leasehold interests in real estate and other tangible assets in numerous countries, but no individual property is significant to the group as a whole. For more on the significant subsidiaries of the group at 31 December 2017 and the group percentage of ordinary share capital see Financial statements – Note 35. For information on significant joint ventures« and associates« of the group see Financial statements – Notes 14 and 15.

Related-party transactions

Transactions between the group and its significant joint ventures and associates are summarized in Financial statements – Note 14 and Note 15. In the ordinary course of its business, the group enters into transactions with various organizations with which some of its directors or executive officers are associated. Except as described in this report, the group did not have any material transactions or transactions of an unusual nature with, and did not make loans to, related parties in the period commencing 1 January 2017 to 14 March 2018.

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Corporate governance practices

In the US, BP ADSs are listed on the New York Stock Exchange (NYSE). The significant differences between BP's corporate governance practices as a UK company and those required by NYSE listing standards for US companies are listed as follows:

Independence

BP has adopted a robust set of board governance principles, which reflect the UK Corporate Governance Code and its principles-based approach to corporate governance. As such, the way in which BP makes determinations of directors' independence differs from the NYSE rules.

BP's board governance principles require that all non-executive directors be determined by the board to be 'independent in character and judgement and free from any business or other relationship which could materially interfere with the exercise of their judgement'. The BP board has determined that, in its judgement, all of the non-executive directors are independent, with the exception of the chairman. In doing so, however, the board did not explicitly take into consideration the independence requirements outlined in the NYSE's listing standards.

Committees

BP has a number of board committees that are broadly comparable in purpose and composition to those required by NYSE rules for domestic US companies. For instance, BP has a chairman's (rather than executive) committee, nomination (rather than nominating/corporate governance) committee and remuneration (rather than compensation) committee. BP also has an audit committee, which NYSE rules require for both US companies and foreign private issuers. These committees are composed solely of non-executive directors whom the board has determined to be independent, in the manner described above.

The BP board governance principles prescribe the composition, main tasks and requirements of each of the committees (see the board committee reports on pages 77-89). BP has not, therefore, adopted separate charters for each committee.

Under US securities law and the listing standards of the NYSE, BP is required to have an audit committee that satisfies the requirements of Rule 10A-3 under the Exchange Act and Section 303A.06 of the NYSE Listed Company Manual. BP's audit committee complies with these requirements. The BP audit committee does not have direct responsibility for the appointment, reappointment or removal of the independent auditors instead, it follows the UK Companies Act 2006 by making recommendations to the board on these matters for it to put forward for shareholder approval at the AGM.

One of the NYSE's additional requirements for the audit committee states that at least one member of the audit committee is to have 'accounting or related financial management expertise'. The board determined that Brendan Nelson possesses such expertise and also possesses the financial and audit committee experiences set forth in both the UK Corporate Governance Code and SEC rules (see Audit committee report on page 77). Mr Nelson is the audit committee financial expert as defined in Item 16A of Form 20-F.

Shareholder approval of equity compensation plans

The NYSE rules for US companies require that shareholders must be given the opportunity to vote on all equity-compensation plans and material revisions to those plans. BP complies with UK requirements that are similar to the NYSE rules. The board, however, does not explicitly take into consideration the NYSE's detailed definition of what are considered 'material revisions'.

Code of ethics

The NYSE rules require that US companies adopt and disclose a code of business conduct and ethics for directors, officers and employees. BP has adopted a code of conduct, which applies to all employees and members of the board, and has board governance principles that address the conduct of directors. In addition BP has adopted a code of ethics for senior financial officers as required by the SEC. BP considers that these codes and policies address the matters specified in the NYSE rules for US companies.

Code of ethics

The company has adopted a code of ethics for its group chief executive, chief financial officer, group controller, group head of audit and chief accounting officer as required by the provisions of Section 406 of the Sarbanes-Oxley Act of 2002 and the rules issued by the SEC. There have been no waivers from the code of ethics relating to any officers.

BP also has a code of conduct, which is applicable to all employees, officers and members of the board. This was updated (and published) in July 2014.

Controls and procedures

Evaluation of disclosure controls and procedures

The company maintains ‘disclosure controls and procedures’, as such term is defined in Exchange Act Rule 13a-15(e), that are designed to ensure that information required to be disclosed in reports the company files or submits under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission rules and forms, and that such information is accumulated and communicated to management, including the company’s group chief executive and chief financial officer, as appropriate, to allow timely decisions regarding required disclosure.

In designing and evaluating our disclosure controls and procedures, our management, including the group chief executive and chief financial officer, recognize that any controls and procedures, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the objectives of the disclosure controls and procedures are met. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within the company have been detected.

Further, in the design and evaluation of our disclosure controls and procedures our management necessarily was required to apply its judgement in evaluating the cost-benefit relationship of possible controls and procedures. Also, we have investments in certain unconsolidated entities. As we do not control these entities, our disclosure controls and procedures with respect to such entities are necessarily substantially more limited than those we maintain with respect to our consolidated subsidiaries. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected. The company’s disclosure controls and procedures have been designed to meet, and management believes that they meet, reasonable assurance standards.

The company’s management, with the participation of the company’s group chief executive and chief financial officer, has evaluated the effectiveness of the company’s disclosure controls and procedures pursuant to Exchange Act Rule 13a-15(b) as of the end of the period covered by this annual report. Based on that evaluation, the group chief executive and chief financial officer have concluded that the company’s disclosure controls and procedures were effective at a reasonable assurance level.

Management’s report on internal control over financial reporting

Management of BP is responsible for establishing and maintaining adequate internal control over financial reporting.

BP’s internal control over financial reporting is a process designed under the supervision of the principal executive and financial officers to provide reasonable assurance regarding the reliability of financial reporting and the preparation of BP’s financial statements for external reporting purposes in accordance with IFRS.

As of the end of the 2017 fiscal year, management conducted an assessment of the effectiveness of internal control over financial reporting in accordance with the UK Financial Reporting Council’s Guidance on Risk Management, Internal Control and Related Financial and Business Reporting. Based on this assessment, management has determined that BP’s internal control over financial reporting as of 31 December 2017 was effective.

The company's internal control over financial reporting includes policies and procedures that pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect transactions and dispositions of assets; provide reasonable assurances that transactions are recorded as necessary to permit preparation of financial statements in accordance with IFRS and that receipts and expenditures are being made only in accordance with authorizations of management and the directors of BP; and provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of BP's assets that could have a material effect on our financial statements. BP's internal control over financial reporting as of 31 December 2017 has been audited by Ernst & Young, an independent registered public accounting firm, as stated in their report appearing on page 124 of BP Annual Report and Form 20-F 2017.

Changes in internal control over financial reporting

There were no changes in the group's internal control over financial reporting that occurred during the period covered by the Form 20-F that have materially affected or are reasonably likely to materially affect our internal controls over financial reporting.

Principal accountants' fees and services

The audit committee has established policies and procedures for the engagement of the independent registered public accounting firm, Ernst & Young LLP, to render audit and certain assurance services. The policies provide for pre-approval by the audit committee of specifically defined audit, audit-related, non-audit and other services that are not prohibited by regulatory or other professional requirements. Ernst & Young are engaged for these services when its expertise and experience of BP are important. Most of this work is of an audit nature. The policy has been updated such that non-audit tax services provided by the audit firm from 2017 onwards are prohibited.

Under the policy, pre-approval is given for specific services within the following categories: advice on accounting, auditing and financial reporting matters; internal accounting and risk management control reviews (excluding any services relating to information systems design and implementation); non-statutory audit; project assurance and advice on business and accounting process improvement (excluding any services relating to information systems design and implementation relating to BP's financial statements or accounting records); due diligence in connection with acquisitions, disposals and joint arrangements« (excluding valuation or involvement in prospective financial information); provision of, or access to, Ernst & Young publications, workshops, seminars and other training materials; provision of reports from data gathered on non-financial policies and information; provision of the independent third party audit in accordance with US Generally Accepted Government Auditing Standards, over the company's Conflict Minerals Report - where such a report is required under the SEC rule 'Conflict Minerals', issued in accordance with Section 1502 of the Dodd Frank Act; and assistance with understanding non-financial regulatory requirements. BP operates a two-tier system for audit and non-audit services. For audit related services, the audit committee has a pre-approved aggregate level, within which specific work may be approved by management. Non-audit services, are pre-approved for management to authorize per individual engagement, but above a defined level must be approved by the chairman of the audit committee or the full committee. In response to the revised regulatory guidelines of the UK Financial Reporting Council, the audit committee reviewed and updated its policies with effect from 1 January 2017. The defined maximum level for pre-approval has been reduced in line with FRC guidance on 'non-trivial' engagements. The audit committee has delegated to the chairman of the audit committee authority to approve permitted services provided that the chairman reports any decisions to the committee at its next scheduled meeting. Any proposed service not included in the approved service list must be approved in advance by the audit committee chairman and reported to the committee, or approved by the full audit committee in advance of commencement of the engagement.

The audit committee evaluates the performance of the auditors each year. The audit fees payable to Ernst & Young are reviewed by the committee in the context of other global companies for cost effectiveness. The committee keeps under review the scope and results of audit work and the independence and objectivity of the auditors. External regulation and BP policy requires the auditors to rotate their lead audit partner every five years. See Financial statements – Note 34 and Audit committee report on page 82 for details of fees for services provided by auditors. Directors' report information

This section of BP Annual Report and Form 20-F 2017 forms part of, and includes certain disclosures which are required by law to be included in, the Directors' report.

Indemnity provisions

In accordance with BP's Articles of Association, on appointment each director is granted an indemnity from the company in respect of liabilities incurred as a result of their office, to the extent permitted by law. These indemnities were in force throughout the financial year and at the date of this report. In respect of those liabilities for which directors may not be indemnified, the company maintained a directors' and officers' liability insurance policy throughout 2017. During the year, a review of the terms and scope of the policy was undertaken. The policy was renewed during 2017 and continued into 2018. Although their defence costs may be met, neither the company's indemnity nor insurance provides cover in the event that the director is proved to have acted fraudulently or dishonestly. Certain subsidiaries are trustees of the group's pension schemes. Each director of these subsidiaries is granted an indemnity from the company in respect of liabilities incurred as a result of such a subsidiary's activities as a trustee of the pension scheme, to the extent permitted by law. These indemnities were in force throughout the financial year and at the date of this report.

Financial risk management objectives and policies

The disclosures in relation to financial risk management objectives and policies, including the policy for hedging, are included in How we manage risk on page 55, Liquidity and capital resources on page 251 and Financial statements – Notes 27 and 28.

Exposure to price risk, credit risk, liquidity risk and cash flow risk

The disclosures in relation to exposure to price risk, credit risk, liquidity risk and cash flow risk are included in Financial statements – Note 27.

Important events since the end of the financial year

Disclosures of the particulars of the important events affecting BP which have occurred since the end of the financial year are included in the Strategic report as well as in other places in the Directors' report.

Likely future developments in the business

An indication of the likely future developments of the business is included in the Strategic report.

Research and development

An indication of the activities of the company in the field of research and development is included in Innovation in BP on page 44.

Branches

As a global group our interests and activities are held or operated through subsidiaries, branches, joint arrangements or associates established in – and subject to the laws and regulations of – many different jurisdictions.

Employees

The disclosures concerning policies in relation to the employment of disabled persons and employee involvement are included in Sustainability – Our people on page 53.

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Employee share schemes

Certain shares held as a result of participation in some employee share plans carry voting rights. Voting rights in respect of such shares are exercisable via a nominee. Dividend waivers are in place in respect of unallocated shares held in employee share plan trusts.

Change of control provisions

On 5 October 2015, the United States lodged with the district court in MDL 2179 a proposed Consent Decree between the United States, the Gulf states, BP Exploration & Production Inc., BP Corporation North America Inc. and BP p.l.c., to fully and finally resolve any and all natural resource damages claims of the United States, the Gulf states and their respective natural resource trustees and all Clean Water Act penalty claims, and certain other claims of the United States and the Gulf states. Concurrently, BP entered into a definitive Settlement Agreement with the five Gulf states (Settlement Agreement) with respect to state claims for economic, property and other losses. On 4 April 2016, the district court approved the Consent Decree, at which time the Consent Decree and Settlement Agreement became effective. The federal government and the Gulf states may jointly elect to accelerate the payments under the Consent Decree in the event of a change of control or insolvency of BP p.l.c., and the Gulf states individually have similar acceleration rights under the Settlement Agreement. For further details of the Consent Decree and the Settlement Agreement, see Legal proceedings in BP Annual Report and Form 20-F 2015.

Greenhouse gas emissions

The disclosures in relation to greenhouse gas emissions are included in Sustainability – Climate change on page 50.

Disclosures required under Listing Rule 9.8.4R

The information required to be disclosed by Listing Rule 9.8.4R can be located as set out below:

| Information required | Page |
|------------------------------------|----------------|
| (1) Amount of interest capitalized | 150 |
| (2) – (11) | Not applicable |
| (12), (13) Dividend waivers | 277 |
| (14) | Not applicable |

Cautionary statement

In order to utilize the ‘safe harbor’ provisions of the United States Private Securities Litigation Reform Act of 1995 (the ‘PSLRA’), BP is providing the following cautionary statement. This document contains certain forecasts, projections and forward-looking statements - that is, statements related to future, not past, events and circumstances - with respect to the financial condition, results of operations and businesses of BP and certain of the plans and objectives of BP with respect to these items. These statements may generally, but not always, be identified by the use of words such as ‘will’, ‘expects’, ‘is expected to’, ‘aims’, ‘should’, ‘may’, ‘objective’, ‘is likely to’, ‘intends’, ‘believes’, ‘anticipates’, ‘plans’, ‘we see’ expressions. In particular, among other statements, (i) certain statements in the Chairman’s letter (pages 6-7), the Group chief executive’s letter (pages 8-9), the Strategic report (inside cover and pages 1- 58), Additional disclosures (pages 247-278) and Shareholder information (pages 279 - 288), including but not limited to statements under the headings ‘The changing world of energy’, ‘How we run our business’, ‘Our strategy’ and ‘Global energy markets’ and including, but not limited to, statements regarding plans and prospects relating to future value creation, near and long-term growth, organic capital expenditure, balance sheet strength, maintaining a robust cash position, operating cash flow and margins, capital discipline, growth in sustainable free cash flow and shareholder distributions and future dividend and optional scrip dividend payments; expectations regarding world energy demand, including the growth in relative demand for renewables, oil and gas, and the proportional growth of renewables; plans and expectations regarding BP’s portfolio including to grow oil and gas; plans to be the low-cost developer and producer in each basin; plans and expectations with regard to new technologies including their efficiency and impact on production; plans to close all physical datacentres over several years; expectations regarding carbon regulations in 2020 and the share of BP’s direct emissions subject to such regulations; plans and expectations to reduce emissions by 3.5 million tonnes by 2025; plans to build a lubricants blend plant in China; plans to grow third-party technology licensing income; plans and expectations with regard to the Butamax joint venture and partnership with Lightsources; plans and expectations

regarding annual charges in Other businesses and corporate, proceeds from divestments and disposals; expectations regarding the determination of business economic loss claims in respect of the 2012 PSC settlement and expectations with respect to the timing and amount of future payments relating to the Gulf of Mexico oil spill including 2012 PSC settlement payments; plans and expectations regarding sales commitments of BP and its equity-accounted entities; expectations regarding underlying production and capital investment; plans and expectations with respect to gearing including to target gearing within a 20-30% band; expectations regarding oil prices; expectations regarding the return on average capital employed; plans with regard to BP's exploration budget; expectations that managed base decline remains between 3-5%; plans and expectations regarding resiliency of downstream businesses; plans and expectations with respect to BP's retail network including to have 1,500 sites in Mexico by 2021; expectations regarding the effective tax rate in 2018; plans to produce 900,000 boe/d from new projects by 2021 and expectations regarding operating cash margins of this production; plans to start up six projects in 2018; plans and expectations regarding investment, development, and production levels and the timing thereof with respect to projects and partnerships in Alaska, Angola, Argentina, Australia, Azerbaijan, Brazil, China, Egypt, Georgia, India, Indonesia, Mexico, Mauritania, Russia, Senegal, Turkey, Trinidad & Tobago, Oman, the UK North Sea, the Gulf of Mexico, and the continental United States; expectations regarding the Trans Anatolian Natural Gas Pipeline; plans and expectations regarding social investment; plans and expectations regarding relationships with governments, customers, partners, suppliers and communities; plans and expectations regarding renewable energy, including planned investments; plans and expectations regarding plant reliability and base decline; plans and expectations regarding the Tangguh gas facility, including the facility's role in supporting Indonesia's energy demands, production from train 3, and the target to source 38% of services and materials from local suppliers; expectations regarding discounts for North American heavy crude oil, refining margins and

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refining turnarounds; plans to undertake joint exploration and development with Rosneft; expectations regarding payments under contractual obligations; plans and expectations with regard to the strategic aims of Air BP and the lubricants business; plans and expectations regarding additions to BP's fleet of oil tankers and LNG tankers; expectations regarding the actions of contractors and partners and their terms of service; BP's aim to maintain a diverse workforce, create an inclusive environment and ensure equal opportunity; policies and goals related to risk management plans; plans regarding activities, dealings, transactions relating to Iran; plans and expectations regarding the timing and payment of proceeds from the sale of BP's stake in Magnus, Sullom Voe Terminal and Bruce assets; plans and projections regarding oil and gas reserves, including the turnover time of proved undeveloped reserves to proved developed reserves; expectations regarding the costs of environmental restoration programmes; plans and expectations regarding the renewal of leases; expectations regarding the future value of assets; expectations regarding future regulations and policy, their impact on BP's business and plans regarding compliance with such regulations; and expectations regarding legal and trial proceedings, court decisions, potential investigations and civil actions by regulators, government entities and/or other entities or parties, and the timing of such proceedings and BP's intentions in respect thereof; and (ii) certain statements in Corporate governance (pages 59-89) and the Directors' remuneration report (pages 90-112) with regard to the anticipated future composition of the board of directors and the effects thereof; the board's goals and areas of focus stemming from the board's annual evaluation; plans regarding the appointment of Deloitte as auditor from 2018; plans and expectations regarding directors' share ownership and remuneration; plans regarding the implementation of the remuneration policy in 2018; and goals, activities and areas of focus of board committees, are all forward looking in nature. By their nature, forward-looking statements involve risk and uncertainty because they relate to events and depend on circumstances that will or may occur in the future and are outside the control of BP. Actual results may differ materially from those expressed in such statements, depending on a variety of factors, including: the specific factors identified in the discussions accompanying such forward-looking statements; the receipt of relevant third party and/or regulatory approvals; the timing and level of maintenance and/or turnaround activity; the timing and volume of refinery additions and outages; the timing of bringing new fields onstream; the timing, quantum and nature of certain divestments; future levels of industry product supply, demand and pricing, including supply growth in North America; OPEC quota restrictions; production-sharing agreements effects; operational and safety problems; potential lapses in product quality; economic and financial market conditions generally or in various countries and regions; political stability and economic growth in relevant areas of the world; changes in laws and governmental regulations and policies, including related to climate change; changes in social attitudes and customer preferences; regulatory or legal actions including the types of enforcement action pursued and the nature of remedies sought or imposed; the actions of prosecutors, regulatory authorities and courts; delays in the processes for resolving claims; amounts ultimately determined to be payable and the timing of payments relating to the Gulf of Mexico oil spill; exchange rate fluctuations; development and use of new technology; recruitment and retention of a skilled workforce; the success or otherwise of partnering; the actions of competitors, trading partners, contractors, subcontractors, creditors, rating agencies and others; our access to future credit resources; business disruption and crisis management; the impact on our reputation of ethical misconduct and non-compliance with regulatory obligations; trading losses; major uninsured losses; decisions by Rosneft's management and board of directors; the actions of contractors; natural disasters and adverse weather conditions; changes in public expectations and other changes to business conditions; wars and acts of terrorism; cyber attacks or sabotage; and other factors discussed elsewhere in this report including under Risk factors (pages 57-58). In addition to factors set forth elsewhere in this report, those set out above are important factors, although not exhaustive, that may cause actual results and developments to differ materially from those expressed or implied by these forward-looking statements.

Statements regarding competitive position

Statements referring to BP's competitive position are based on the company's belief and, in some cases, rely on a range of sources, including investment analysts' reports, independent market studies and BP's internal assessments of market share based on publicly available information about the financial results and performance of market participants.

| | |
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Share prices and listings

Markets and market prices

The primary market for BP's ordinary shares is the London Stock Exchange (LSE). BP's ordinary shares are a constituent element of the Financial Times Stock Exchange 100 Index. BP's ordinary shares are also traded on the Frankfurt Stock Exchange in Germany.

Trading of BP's shares on the LSE is primarily through the use of the Stock Exchange Electronic Trading Service (SETS), introduced in 1997 for the largest companies in terms of market capitalization whose primary listing is the LSE. Under SETS, buy and sell orders at specific prices may be sent electronically to the exchange by any firm that is a member of the LSE, on behalf of a client or on behalf of itself acting as a principal. The orders are then anonymously displayed in the order book. When there is a match on a buy and a sell order, the trade is executed and automatically reported to the LSE. Trading is continuous from 8.00am to 4.30pm UK time but, in the event of a 20% movement in the share price either way, the LSE may impose a

temporary halt in the trading of that company's shares in the order book to allow the market to re-establish equilibrium. Dealings in ordinary shares may also take place between an investor and a market maker, via a member firm, outside the electronic order book.

In the US, BP's securities are traded on the New York Stock Exchange (NYSE) in the form of ADSs, for which JPMorgan Chase Bank, N.A. is the depositary (the Depositary) and transfer agent. The Depositary's principal office is 4 New York Plaza, Floor 12, New York, NY, 10004, US. Each ADS represents six ordinary shares. ADSs are listed on the NYSE. ADSs are evidenced by American depositary receipts (ADRs), which may be issued in either certificated or book entry form.

The following table sets forth, for the periods indicated, the highest and lowest market prices for BP's ordinary shares and ADSs for the periods shown. These are derived from the highest and lowest intra-day sales prices as reported on the LSE and NYSE, respectively.

| | Pence | | Dollars | |
|-------------------------------------|--------|--------|---|----------|
| | High | Low | American depositary shares ^a | High Low |
| Year ended 31 December | | | | |
| 2013 | 494.20 | 426.50 | 48.65 | 39.99 |
| 2014 | 526.80 | 364.40 | 53.48 | 34.88 |
| 2015 | 487.50 | 319.90 | 43.85 | 29.35 |
| 2016 | 513.24 | 309.10 | 37.68 | 27.01 |
| 2017 | 529.00 | 436.95 | 42.23 | 33.10 |
| Year ended 31 December | | | | |
| 2016: First quarter (January-March) | 381.80 | 309.10 | 32.38 | 27.01 |
| Second quarter (April-June) | 438.15 | 335.07 | 35.59 | 28.67 |
| Third quarter (July-September) | 464.40 | 408.63 | 37.28 | 32.50 |
| Fourth quarter (October-December) | 513.24 | 432.15 | 37.68 | 32.53 |
| 2017: First quarter (January-March) | 521.20 | 440.80 | 38.68 | 33.10 |
| Second quarter (April-June) | 479.39 | 437.68 | 37.19 | 33.83 |
| Third quarter (July-September) | 480.60 | 436.95 | 38.48 | 33.90 |
| Fourth quarter (October-December) | 529.00 | 477.10 | 42.23 | 37.98 |
| 2018: First quarter (to 8 March) | 536.20 | 452.50 | 44.62 | 36.15 |
| Month of | | | | |
| September 2017 | 480.60 | 440.00 | 38.48 | 34.26 |
| October 2017 | 522.21 | 477.10 | 40.97 | 37.98 |
| November 2017 | 529.00 | 488.05 | 41.55 | 38.75 |

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| | | |
|-------------------------|--------------|------------|
| December 2017 | 523.50482.65 | 42.2339.22 |
| January 2018 | 536.20500.40 | 44.6241.81 |
| February 2018 | 519.10452.50 | 43.6536.15 |
| March 2018 (to 8 March) | 477.65463.90 | 39.8038.33 |

^a One ADS is equivalent to six 25 cent ordinary shares.

Source: FactSet for 2017 and 2018. Thomson Reuters Datastream for 2013-2016.

Market prices for the ordinary shares on the LSE and in after-hours trading off the LSE, in each case while the NYSE is open, and the market prices for ADSs on the NYSE, are closely related due to arbitrage among the various markets, although differences may exist from time to time.

On 8 March 2018, 913,607,017.5 ADSs (equivalent to approximately 5,481,642,105 ordinary shares or some 27.50% of the total issued share capital, excluding shares held in treasury) were outstanding and were held by approximately 84,659 ADS holders. Of these, about 83,686 had registered addresses in the US at that date. One of the registered holders of ADSs represents some 1,020,454 underlying holders.

On 8 March 2018 there were approximately 242,521 ordinary shareholders. Of these shareholders, around 1,575 had registered addresses in the US and held a total of some 4,189,051 ordinary shares.

Since a number of the ordinary shares and ADSs were held by brokers and other nominees, the number of holders in the US may

not be representative of the number of beneficial holders of their respective country of residence.

Dividends

BP's current policy is to pay interim dividends on a quarterly basis on its ordinary shares.

Its policy is also to announce dividends for ordinary shares in US dollars and state an equivalent sterling dividend.

Dividends on BP ordinary shares will be paid in sterling and on BP ADSs in US dollars. The rate of exchange used to determine the sterling amount equivalent is the average of the market exchange rates in London over the four business days prior to the sterling equivalent announcement date. The directors may choose to declare dividends in any currency provided that a sterling equivalent is announced. It is not the company's intention to change its current policy of announcing dividends on ordinary shares in US dollars.

Information regarding dividends announced and paid by the company on ordinary shares and preference shares is provided in Financial statements – Note 8.

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A Scrip Dividend Programme (Scrip Programme) was approved by shareholders in 2010 and was renewed for a further three years at the 2015 AGM. It is proposed that the Scrip Programme be renewed for a further three years at the 2018 AGM. It enables BP ordinary shareholders and ADS holders to elect to receive dividends by way of new fully paid BP ordinary shares (or ADSs in the case of ADS holders) instead of cash. The operation of the Scrip Programme is always subject to the directors' decision to make the Scrip Programme offer available in respect of any particular dividend. Should the directors decide not to offer the Scrip Programme in respect of any particular dividend, cash will be paid automatically instead.

Future dividends will be dependent on future earnings, the financial condition of the group, the Risk factors set out on page 57 and other matters that may affect the business of the group set out in Our strategy on page 12 and in Liquidity and capital resources on page 251.

The following table shows dividends announced and paid by the company per ADS for the past five years.

| Dividends per ADS ^a | March | June | September | December | Total |
|--------------------------------|-------|-------|-----------|----------|--------|
| 2013 UK pence | 36.01 | 35.01 | 34.58 | 34.80 | 140.40 |
| US cents | 54 | 54 | 54 | 57 | 219 |
| 2014 UK pence | 34.24 | 34.84 | 35.76 | 38.26 | 143.10 |
| US cents | 57 | 58.5 | 58.5 | 60 | 234 |
| 2015 UK pence | 40.00 | 39.18 | 39.29 | 39.81 | 158.28 |
| US cents | 60 | 60 | 60 | 60 | 240 |
| 2016 UK pence | 42.08 | 41.50 | 45.35 | 47.59 | 176.52 |
| US cents | 60 | 60 | 60 | 60 | 240 |
| 2017 UK pence | 48.95 | 46.54 | 45.73 | 44.66 | 185.88 |
| US cents | 60 | 60 | 60 | 60 | 240 |

^a Dividends announced and paid by the company on ordinary and preference shares are provided in Financial statements – Note 8.

There are currently no UK foreign exchange controls or restrictions on remittances of dividends on the ordinary shares or on the conduct of the company's operations, other than restrictions applicable to certain countries and persons subject to EU economic sanctions or those sanctions adopted by the UK government which implement resolutions of the Security Council of the United Nations.

Shareholder taxation information

This section describes the material US federal income tax and UK taxation consequences of owning ordinary shares or ADSs to a US holder who holds the ordinary shares or ADSs as capital assets for tax purposes. It does not apply, however, inter alia to members of special classes of holders some of which may be subject to other rules, including: tax-exempt entities, life insurance companies, dealers in securities, traders in securities that elect a mark-to-market method of accounting for securities holdings, investors liable for alternative minimum tax, holders that, directly or indirectly, hold 10% or more of the company's voting stock, holders that hold the shares or ADSs as part of a straddle or a hedging or conversion transaction, holders that purchase or sell the shares or ADSs as part of a wash sale for US federal income tax purposes, or holders whose functional currency is not the US dollar. In addition, if a partnership holds the shares or ADSs, the US federal income tax treatment of a partner will generally depend on the status of the partner and the tax treatment of the partnership and may not be described fully below.

A US holder is any beneficial owner of ordinary shares or ADSs that is for US federal income tax purposes (1) a citizen or resident of the US, (2) a US domestic corporation, (3) an estate whose income is subject to US federal income taxation regardless of its source, or (4) a trust if a US court can exercise primary supervision over the trust's administration and one or more US persons are authorized to control all substantial decisions of the trust.

This section is based on the tax laws of the United States, including the Internal Revenue Code of 1986, as amended, its legislative history, existing and proposed US Treasury regulations thereunder, published rulings and court decisions, and the taxation laws of the UK, all as currently in effect, as well as the income tax convention

between the US and the UK that entered into force on 31 March 2003 (the 'Treaty'). These laws are subject to change, possibly on a retroactive basis. This section further assumes that each obligation under the terms of the deposit agreement relating to BP ADSs and any related agreement will be performed in accordance with its terms.

For purposes of the Treaty and the estate and gift tax Convention (the 'Estate Tax Convention') and for US federal income tax and UK taxation purposes, a holder of ADRs evidencing ADSs will be treated as the owner of the company's ordinary shares represented by those ADRs. Exchanges of ordinary shares for ADRs and ADRs for ordinary shares generally will not be subject to US federal income tax or to UK taxation other than stamp duty or stamp duty reserve tax, as described below.

Investors should consult their own tax adviser regarding the US federal, state and local, UK and other tax consequences of owning and disposing of ordinary shares and ADSs in their particular circumstances, and in particular whether they are eligible for the benefits of the Treaty in respect of their investment in the shares or ADSs.

Taxation of dividends

UK taxation

Under current UK taxation law, no withholding tax will be deducted from dividends paid by the company, including dividends paid to US holders. A shareholder that is a company resident for tax purposes in the UK or trading in the UK through a permanent establishment generally will not be taxable in the UK on a dividend it receives from the company. A shareholder who is an individual resident for tax purposes in the UK is subject to UK tax but until 5 April 2016, was entitled to a tax credit on cash dividends paid on ordinary shares or ADSs of the company equal to one-ninth of the cash dividend.

From 6 April 2016 the Dividend Tax Credit was replaced by a new tax-free Dividend Allowance and dividends paid by the Company on or after 6 April 2016 do not carry a UK tax credit. A Dividend Allowance has been introduced whereby there is no UK tax due on the first £5,000 of dividends received. Dividends above this level are subject to tax at 7.5% for basic tax payers, 32.5% for higher rate tax payers and 38.1% for additional rate tax payers.

Although the first £5,000 of dividend income is not subject to UK income tax, it does not reduce the total income for tax purposes. Dividends within the Dividend Allowance still count towards basic or higher rate bands, and may therefore affect the rate of tax paid on dividends received in excess of the £5,000 allowance. For instance, if an individual has £2,000 of the basic rate band remaining after earning non-dividend income, and receives £6,000 of dividend income, they will be subject to the following scenario. The Dividend Allowance will cover the first £2,000 of dividends which fall into the remaining basic rate band, leaving the remaining £3,000 of the allowance to use in the higher rate band. The first £5,000 dividend income is therefore covered by the allowance and is not subject to tax. The remaining £1,000 of dividend income falls into the higher rate band and is taxed at the rate of 32.5%.

How the shareholder pays the tax arising on the dividend income depends on the amount of dividend income they receive in the tax year. If less than £5,000 they will not need to report anything or pay any tax. If between £5,000 and £10,000, the shareholder can pay what they owe by: contacting the helpline; asking HMRC to change their tax code – the tax will be taken from their wages or pension or through completion of the 'Dividends' section of their tax return, where one is being filed. If over £10,000 they will be required to file a self-assessment tax return and should complete the 'Dividends' section with details of the amounts received. From 6 April 2018 the amount of the Dividend Allowance will fall to £2,000.

US federal income taxation

A US holder is subject to US federal income taxation on the gross amount of any dividend paid by the company out of its current or accumulated earnings and profits (as determined for US federal income tax purposes). Dividends paid to a non-corporate US holder that constitute 'qualified dividend income' will be taxable to the holder at a preferential rate, provided that the holder has a holding period in the ordinary shares or ADSs of more than 60 days during the

121-day period beginning 60 days before the ex-dividend date and meets other holding period requirements. Dividends paid by the company with respect to the ordinary shares or ADSs will generally be qualified dividend income.

For US federal income tax purposes, a dividend must be included in income when the US holder, in the case of ordinary shares, or the Depositary, in the case of ADSs, actually or constructively receives the dividend and will not be eligible for the dividends-received deduction generally allowed to US corporations in respect of dividends received from other US corporations. US ADS holders should consult their own tax adviser regarding the US tax treatment of the dividend fee in respect of dividends. Dividends will be income from sources outside the US and generally will be 'passive category income' or, in the case of certain US holders, 'general category income', each of which is treated separately for purposes of computing a US holder's foreign tax credit limitation.

As noted above in UK taxation, a US holder will not be subject to UK withholding tax. Accordingly, the receipt of a dividend will not entitle the US holder to a foreign tax credit.

The amount of the dividend distribution on the ordinary shares that is paid in pounds sterling will be the US dollar value of the pounds sterling payments made, determined at the spot pounds sterling/US dollar rate on the date the dividend distribution is includible in income, regardless of whether the payment is, in fact, converted into US dollars. Generally, any gain or loss resulting from currency exchange fluctuations during the period from the date the pounds sterling dividend payment is includible in income to the date the payment is converted into US dollars will be treated as ordinary income or loss and will not be eligible for the preferential tax rate on qualified dividend income. The gain or loss generally will be income or loss from sources within the US for foreign tax credit limitation purposes.

Distributions in excess of the company's earnings and profits, as determined for US federal income tax purposes, will be treated as a return of capital to the extent of the US holder's basis in the ordinary shares or ADSs and thereafter as capital gain, subject to taxation as described in Taxation of capital gains – US federal income taxation section below. In addition, the taxation of dividends may be subject to the rules for passive foreign investment companies (PFIC), described below under 'Taxation of capital gains – US federal income taxation'. Distributions made by a PFIC do not constitute qualified dividend income and are not eligible for the preferential tax rate applicable to such income.

Taxation of capital gains

UK taxation

A US holder may be liable for both UK and US tax in respect of a gain on the disposal of ordinary shares or ADSs if the US holder is (1) resident for tax purposes in the United Kingdom at the date of disposal, (2) if he or she has left the UK for a period not exceeding five complete tax years between the year of departure from and the year of return to the UK and acquired the shares before leaving the UK and was resident in the UK in the previous four out of seven tax years before the year of departure, (3) a US domestic corporation resident in the UK by reason of its business being managed or controlled in the UK or (4) a citizen of the US that carries on a trade or profession or vocation in the UK through a branch or agency or a corporation that carries on a trade, profession or vocation in the UK, through a permanent establishment, and that has used, held, or acquired the ordinary shares or ADSs for the purposes of such trade, profession or vocation of such branch, agency or permanent establishment. However, such persons may be entitled to a tax credit against their US federal income tax liability for the amount of UK capital gains tax or UK corporation tax on chargeable gains (as the case may be) that is paid in respect of such gain.

Under the Treaty, capital gains on dispositions of ordinary shares or ADSs generally will be subject to tax only in the jurisdiction of residence of the relevant holder as determined under both the laws of the UK and the US and as required by the terms of the Treaty.

Under the Treaty, individuals who are residents of either the UK or the US and who have been residents of the other jurisdiction (the US or the UK, as the case may be) at any time during the six years

immediately preceding the relevant disposal of ordinary shares or ADSs may be subject to tax with respect to capital gains arising from a disposition of ordinary shares or ADSs of the company not only in the jurisdiction of which the holder is resident at the time of the disposition but also in the other jurisdiction.

US federal income taxation

A US holder who sells or otherwise disposes of ordinary shares or ADSs will recognize a capital gain or loss for US federal income tax purposes equal to the difference between the US dollar value of the amount realized on the

disposition and the US holder's tax basis, determined in US dollars, in the ordinary shares or ADSs. Any such capital gain or loss generally will be long-term gain or loss, subject to tax at a preferential rate for a non-corporate US holder, if the US holder's holding period for such ordinary shares or ADSs exceeds one year.

Gain or loss from the sale or other disposition of ordinary shares or ADSs will generally be income or loss from sources within the US for foreign tax credit limitation purposes. The deductibility of capital losses is subject to limitations.

We do not believe that ordinary shares or ADSs will be treated as stock of a passive foreign investment company, or PFIC, for US federal income tax purposes, but this conclusion is a factual determination that is made annually and thus is subject to change. If we are treated as a PFIC, unless a US holder elects to be taxed annually on a mark-to-market basis with respect to ordinary shares or ADSs, any gain realized on the sale or other disposition of ordinary shares or ADSs would in general not be treated as capital gain. Instead, a US holder would be treated as if he or she had realized such gain ratably over the holding period for ordinary shares or ADSs and would be taxed at the highest tax rate in effect for each such year to which the gain was allocated, in addition to which an interest charge in respect of the tax attributable to each such year would apply. Certain 'excess distributions' would be similarly treated if we were treated as a PFIC.

Additional tax considerations

Scrip Programme

The company has an optional Scrip Programme, wherein holders of BP ordinary shares or ADSs may elect to receive any dividends in the form of new fully paid ordinary shares or ADSs of the company instead of cash. Please consult your tax adviser for the consequences to you.

UK inheritance tax

The Estate Tax Convention applies to inheritance tax. ADSs held by an individual who is domiciled for the purposes of the Estate Tax Convention in the US and is not for the purposes of the Estate Tax Convention a national of the UK will not be subject to UK inheritance tax on the individual's death or on transfer during the individual's lifetime unless, among other things, the ADSs are part of the business property of a permanent establishment situated in the UK used for the performance of independent personal services. In the exceptional case where ADSs are subject to both inheritance tax and US federal gift or estate tax, the Estate Tax Convention generally provides for tax payable in the US to be credited against tax payable in the UK or for tax paid in the UK to be credited against tax payable in the US, based on priority rules set forth in the Estate Tax Convention.

UK stamp duty and stamp duty reserve tax

The statements below relate to what is understood to be the current practice of HM Revenue & Customs in the UK under existing law.

Provided that any instrument of transfer is not executed in the UK and remains at all times outside the UK and the transfer does not relate to any matter or thing done or to be done in the UK, no UK stamp duty is payable on the acquisition or transfer of ADSs. Neither will an agreement to transfer ADSs in the form of ADRs give rise to a liability to stamp duty reserve tax.

Purchases of ordinary shares, as opposed to ADSs, through the CREST system of paperless share transfers will be subject to stamp duty reserve tax at 0.5%. The charge will arise as soon as there is an agreement for the transfer of the shares (or, in the case of a conditional agreement, when the condition is fulfilled). The stamp

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duty reserve tax will apply to agreements to transfer ordinary shares even if the agreement is made outside the UK between two non-residents. Purchases of ordinary shares outside the CREST system are subject either to stamp duty at a rate of £5 per £1,000 (or part, unless the stamp duty is less than £5, when no stamp duty is charged), or stamp duty reserve tax at 0.5%. Stamp duty and stamp duty reserve tax are generally the liability of the purchaser.

A subsequent transfer of ordinary shares to the Depository's nominee will give rise to further stamp duty at the rate of £1.50 per £100 (or part) or stamp duty reserve tax at the rate of 1.5% of the value of the ordinary shares at the time of the transfer. For ADR holders electing to receive ADSs instead of cash, after the 2012 first quarter dividend payment, HM Revenue & Customs no longer seeks to impose 1.5% stamp duty reserve tax on issues of UK shares and securities to non-EU clearance services and depository receipt systems.

US Medicare Tax

A US holder that is an individual or estate, or a trust that does not fall into a special class of trusts that is exempt from such tax, is subject to a 3.8% tax on the lesser of (1) the US holder's 'net investment income' (or 'undistributed net investment income' in the case of an estate or trust) for the relevant taxable year and (2) the excess of the US holder's modified adjusted gross income for the taxable year over a certain threshold (which in the case of individuals is between \$125,000 and \$250,000, depending on the individual's circumstances). A holder's net investment income generally includes its dividend income and its net gains from the disposition of shares or ADSs, unless such dividend income or net gains are derived in the ordinary course of the conduct of a trade or business (other than a trade or business that consists of certain passive or trading activities). If you are a US holder that is an individual, estate or trust, you are urged to consult your tax advisers regarding the applicability of the Medicare tax to your income and gains in respect of your investment in the shares or ADSs.

Major shareholders

The disclosure of certain major and significant shareholdings in the share capital of the company is governed by the Companies Act 2006, the UK Financial Conduct Authority's Disclosure Guidance and Transparency Rules (DTR) and the US Securities Exchange Act of 1934.

Register of members holding BP ordinary shares as at 31 December 2017

| Range of holdings | Number of ordinary shareholders | Percentage of total ordinary shareholders | Percentage of total ordinary share capital excluding shares held in treasury |
|-----------------------------|---------------------------------|---|--|
| 1-200 | 53,742 | 22.09 | 0.01 |
| 201-1,000 | 82,932 | 34.08 | 0.23 |
| 1,001-10,000 | 94,138 | 38.69 | 1.49 |
| 10,001-100,000 | 10,976 | 4.51 | 1.14 |
| 100,001-1,000,000 | 887 | 0.36 | 1.66 |
| Over 1,000,000 ^a | 658 | 0.27 | 95.47 |
| Totals | 243,333 | 100.00 | 100.00 |

^a Includes JPMorgan Chase Bank, N.A. holding 27.71% of the total ordinary issued share capital (excluding shares held in treasury) as the approved depository for ADSs, a breakdown of which is shown in the table below.

Register of holders of American depository shares (ADSs) as at 31 December 2017^a

| Range of holdings | Number of ADS holders | Percentage of total ADS holders | Percentage of total ADSs |
|-----------------------------|-----------------------|---------------------------------|--------------------------|
| 1-200 | 50,511 | 59.07 | 0.30 |
| 201-1,000 | 22,533 | 26.35 | 1.17 |
| 1,001-10,000 | 11,894 | 13.91 | 3.36 |
| 10,001-100,000 | 569 | 0.67 | 1.02 |
| 100,001-1,000,000 | 9 | 0.00 | 0.16 |
| Over 1,000,000 ^b | 1 | 0.00 | 93.99 |
| Totals | 85,517 | 100.00 | 100.00 |

^a One ADS represents six 25 cent ordinary shares.

^b One holder of ADSs represents 994,294 underlying shareholders.

As at 31 December 2017 there were also 1,337 preference shareholders. Preference shareholders represented 0.43% and ordinary shareholders represented 99.57% of the total issued nominal share capital of the company (excluding shares held in treasury) as at that date.

In accordance with DTR 5, we have received notification that as at 31 December 2017 BlackRock, Inc. held 6.51% and The Vanguard Group, Inc. held 3.15% of the voting rights of the ordinary issued share capital of the company. As at 8 March 2018 BlackRock, Inc. held 6.65% and The Vanguard Group, Inc. held 3.21% of the voting rights of the ordinary issued share capital of the company.

Under the US Securities Exchange Act of 1934 BP has received notification of the following interests as at 8 March 2018:

| Holder | Holding of ordinary shares | Percentage of ordinary share capital excluding shares held in treasury |
|--|----------------------------|--|
| JPMorgan Chase Bank N.A., depository for ADSs, through its nominee Guaranty Nominees Limited | 5,481,642,105 | 27.50 |
| BlackRock, Inc. | 1,325,269,035 | 6.65 |

The company's major shareholders do not have different voting rights.

The company has also been notified of the following interests in preference shares as at 8 March 2018:

| Holder | Holding of 8% cumulative first preference shares | Percentage of class |
|---|--|---------------------|
| The National Farmers Union Mutual Insurance Society Limited | 945,000 | 13.07 |
| Hargreaves Lansdown Asset Management Limited | 534,146 | 7.39 |
| Prudential plc | 528,150 | 7.30 |
| Barclays, plc | 385,996 | 5.34 |

| Holder | Holding of 9% cumulative second preference shares | Percentage of class |
|---|---|---------------------|
| The National Farmers Union Mutual Insurance Society Limited | 987,000 | 18.03 |
| Prudential plc | 644,450 | 11.77 |
| Interactive Investor Share Dealing Services | 330,741 | 6.04 |
| Safra Group | 320,000 | 5.85 |
| Hargreaves Lansdown Asset Management Limited | 314,574 | 5.75 |
| Barclays, plc | 282,798 | 5.17 |

In accordance with DTR 5, UBS Investment Bank notified the company that its indirect interest in ordinary shares increased above 3% on 9 February 2015 and that it decreased below the notifiable threshold on 16 February 2015.

UBS Investment Bank notified the company that its indirect interest in ordinary shares increased above 3% on 7 May 2015 and that it decreased below the notifiable threshold on 11 May 2015.

The Capital Group of Companies, Inc. notified the company that its indirect interest in ordinary shares decreased below the notifiable threshold on 21 July 2015.

UBS Investment Bank notified the company that its indirect interest in ordinary shares increased above 3% on 4 November 2015 and that it decreased below the notifiable threshold on 9 November 2015.

BlackRock, Inc. notified the company that its indirect interest in ordinary shares remained above the previously disclosed threshold of 5%, on 26 November 2015, that it decreased below 5% on 4 February 2016 and that it increased above 5% on 15 February 2016.

During 2016, BlackRock, Inc. notified the company that its indirect interest in ordinary shares moved as follows: decreased below the previously disclosed threshold of 5% on 28 April 2016; increased above 5% on 9 May 2016; decreased below 5% on 29 July 2016; increased above 5% on 8 August 2016; decreased below 5% on 4 November 2016 and increased above 5% on 14 November 2016.

During 2017, BlackRock Inc. notified the company that its indirect interest in ordinary shares moved as follows: decreased below 5% on 9 February 2017; increased above 5% on 22 February 2017; decreased below 5% on 8 May 2017; increased above 5% on 15 May 2017; increased above 5% on 14 August 2017; decreased below 5% on 3 November 2017 and increased above 5% on 13 November 2017.

During 2018, BlackRock, Inc. notified the company that its indirect interest in ordinary shares decreased below 5% on 12 February 2018.

As at 8 March 2018, the total preference shares in issue comprised only 0.42% of the company's total issued nominal share capital (excluding shares held in treasury), the rest being ordinary shares.

Annual general meeting

The 2018 AGM will be held on Monday 21 May 2018 at 11.30am. A separate notice convening the meeting is distributed to shareholders, which includes an explanation of the items of business to be considered at the meeting. The board appointed Deloitte LLP as the company's new auditor with effect from 29 March 2018 to fill the vacancy arising from Ernst & Young LLP's resignation following completion of their audit of BP's 2017 financial statements. At the 2018 AGM, the board will seek shareholder approval for the appointment of Deloitte LLP as the company's auditor until the conclusion of the next AGM at which the company's accounts are laid before shareholders.

Memorandum and Articles of Association

The following summarizes certain provisions of the company's Memorandum and Articles of Association and applicable English law. This summary is qualified in its entirety by reference to the UK Companies Act 2006 (the Act) and the company's Memorandum and Articles of Association. For information on where investors can obtain copies of the Memorandum and Articles of Association see Documents on display on page 287.

The company's Articles of Association may be amended by a special resolution at a general meeting of the shareholders. At the annual general meeting (AGM) held on 17 April 2008 shareholders voted to adopt new Articles of Association, largely to take account of changes in UK company law brought about by the Act. Further amendments to the Articles of Association were approved by shareholders at the AGM held on 15 April 2010. At the AGM held on 16 April 2015 shareholders voted to adopt new Articles of Association to reflect developments in practice and to provide clarification and additional flexibility. New Articles of Association are being proposed at the AGM in 2018.

Objects and purposes

BP is a public company limited by shares, incorporated under the name BP p.l.c. and is registered in England and Wales with the registered number 102498. The provisions regulating the operations of the company, known as its 'objects', were historically stated in a company's memorandum. The Act abolished the need to have object provisions and so at the AGM held on 15 April 2010 shareholders approved the removal of its objects clause together with all other provisions of its Memorandum that, by virtue of the Act, are treated as forming part of the company's Articles of Association.

Directors

The business and affairs of BP shall be managed by the directors. The company's Articles of Association provide that directors may be appointed by the existing directors or by the shareholders in a general meeting. Any person appointed by the directors will hold office only until the next general meeting, notice of which is first given after their appointment and will then be eligible for re-election by the

shareholders. A director may be removed by BP as provided for by applicable law and shall vacate office in certain circumstances as set out in the Articles of Association. In addition, the company may by special resolution remove a director before the expiration of his/her period of office and, subject to the Articles of Association, may by ordinary resolution appoint another person to be a director instead. There is no requirement for a director to retire on reaching any age.

The Articles of Association place a general prohibition on a director voting in respect of any contract or arrangement in which the director has a material interest other than by virtue of such director's interest in shares in the company.

However, in the absence of some other material interest not indicated below, a director is entitled to vote and to be counted in a quorum for the purpose of any vote relating to a resolution concerning the following matters:

• The giving of security or indemnity with respect to any money lent or obligation taken by the director at the request or benefit of the company or any of its subsidiaries.

• Any proposal in which the director is interested, concerning the underwriting of company securities or debentures or the giving of any security to a third party for a debt or obligation of the company or any of its subsidiaries.

• Any proposal concerning any other company in which the director is interested, directly or indirectly (whether as an officer or shareholder or otherwise) provided that the director and persons connected with such director are not the holder or holders of 1% or more of the voting interest in the shares of such company.

• Any proposal concerning the purchase or maintenance of any insurance policy under which the director may benefit.

• Any proposal concerning the giving to the director of any other indemnity which is on substantially the same terms as indemnities given or to be given to all of the other directors or to the funding by the company of his expenditure on defending proceedings or the doing by the company of anything to enable the director to avoid incurring such expenditure where all other directors have been given or are to be given substantially the same arrangements.

• Any proposal concerning an arrangement for the benefit of the employees and directors or former employees and former directors of the company or any of its subsidiary undertakings, including but without being limited to a retirement benefits scheme and an employees' share scheme, which does not accord to any director any privilege or advantage not generally accorded to the employees or former employees to whom the arrangement relates.

The Act requires a director of a company who is in any way interested in a contract or proposed contract with the company to declare the nature of the director's interest at a meeting of the directors of the company. The definition of 'interest' includes the interests of spouses, children, companies and trusts. The Act also requires that a director must avoid a situation where a director has, or could have, a direct or indirect interest that conflicts, or possibly may conflict, with the company's interests. The Act allows directors of public companies to authorize such conflicts where appropriate, if a company's Articles of Association so permit. BP's Articles of Association permit the authorization of such conflicts. The directors may exercise all the powers of the company to borrow money, except that the amount remaining undischarged of all moneys borrowed by the company shall not, without approval of the shareholders, exceed two times the amount paid up on the share capital plus the aggregate of the amount of the capital and revenue reserves of the company. Variation of the borrowing power of the board may only be affected by amending the Articles of Association.

Remuneration of non-executive directors shall be determined in the aggregate by resolution of the shareholders.

Remuneration of executive directors is determined by the remuneration committee. This committee is made up of non-executive directors only. There is no requirement of share ownership for a director's qualification.

Dividend rights; other rights to share in company profits; capital calls

If recommended by the directors of BP, BP shareholders may, by resolution, declare dividends but no such dividend may be declared in excess of the amount recommended by the directors. The directors may also pay interim dividends without obtaining shareholder approval. No dividend may be paid other than out of profits available for distribution, as determined under IFRS and the Act. Dividends on ordinary shares are payable only after payment of dividends on BP preference shares. Any dividend unclaimed after a period of 12 years from the date of declaration of such dividend shall be forfeited and reverts to BP. If the company exercises its right to forfeit shares and sells shares belonging to an untraced shareholder then any dividends or other monies unclaimed in respect of those shares will be forfeited after a period of two years.

The directors have the power to declare and pay dividends in any currency provided that a sterling equivalent is announced. It is not the company's intention to change its current policy of paying dividends in US dollars. At the company's AGM held on 15 April 2010, shareholders approved the introduction of a Scrip Dividend Programme (Scrip Programme) and to include provisions in the Articles of Association to enable the company to operate the Scrip Programme. The Scrip Programme was renewed at the company's AGM held on 16 April 2015 for a further three years. The Scrip Programme enables ordinary shareholders and BP ADS holders to elect to receive new fully paid ordinary shares (or BP ADSs in the case of BP ADS holders) instead of cash. The operation of the Scrip Programme is always subject to the directors' decision to make the scrip offer available in respect of any particular dividend. Should the directors decide not to offer the scrip in respect of any particular dividend, cash will automatically be paid instead. Apart from shareholders' rights to share in BP's profits by dividend (if any is declared or announced), the Articles of Association provide that the directors may set aside:

- A special reserve fund out of the balance of profits each year to make up any deficit of cumulative dividend on the BP preference shares.

- A general reserve out of the balance of profits each year, which shall be applicable for any purpose to which the profits of the company may properly be applied. This may include capitalization of such sum, pursuant to an ordinary shareholders' resolution, and distribution to shareholders as if it were distributed by way of a dividend on the ordinary shares or in paying up in full unissued ordinary shares for allotment and distribution as bonus shares.

Any such sums so deposited may be distributed in accordance with the manner of distribution of dividends as described above.

Holders of shares are not subject to calls on capital by the company, provided that the amounts required to be paid on issue have been paid off. All shares are fully paid.

Voting rights

The Articles of Association of the company provide that voting on resolutions at a shareholders' meeting will be decided on a poll other than resolutions of a procedural nature, which may be decided on a show of hands. If voting is on a poll, every shareholder who is present in person or by proxy has one vote for every ordinary share held and two votes for every £5 in nominal amount of BP preference shares held. If voting is on a show of hands, each shareholder who is present at the meeting in person or whose duly appointed proxy is present in person will have one vote, regardless of the number of shares held, unless a poll is requested.

Shareholders do not have cumulative voting rights.

For the purposes of determining which persons are entitled to attend or vote at a shareholders' meeting and how many votes such persons may cast, the company may specify in the notice of the meeting a time, not more than 48 hours before the time of the meeting, by which a person who holds shares in registered form must be entered on the company's register of members in order to have the right to attend or vote at the meeting or to appoint a proxy to do so. Holders on record of ordinary shares may appoint a proxy, including a beneficial owner of those shares, to attend, speak and vote on their

behalf at any shareholders' meeting, provided that a duly completed proxy form is received not less than 48 hours (or such shorter time as the directors may determine) before the time of the meeting or adjourned meeting or, where the poll is to be taken after the date of the meeting, not less than 24 hours (or such shorter time as the directors may determine) before the time of the poll.

Record holders of BP ADSs are also entitled to attend, speak and vote at any shareholders' meeting of BP by the appointment by the approved depository, JPMorgan Chase Bank N.A., of them as proxies in respect of the ordinary shares represented by their ADSs. Each such proxy may also appoint a proxy. Alternatively, holders of BP ADSs are entitled to vote by supplying their voting instructions to the depository, who will vote the ordinary shares represented by their ADSs in accordance with their instructions.

Proxies may be delivered electronically.

Corporations who are members of the company may appoint one or more persons to act as their representative or representatives at any shareholders' meeting provided that the company may require a corporate representative to produce a certified copy of the resolution appointing them before they are permitted to exercise their powers.

Matters are transacted at shareholders' meetings by the proposing and passing of resolutions, of which there are two types: ordinary or special.

An ordinary resolution requires the affirmative vote of a majority of the votes of those persons voting at a meeting at which there is a quorum. A special resolution requires the affirmative vote of not less than three quarters of the persons voting at a meeting at which there is a quorum. Any AGM requires 21 clear days' notice. The notice period for any other general meeting is 14 clear days subject to the company obtaining annual shareholder approval, failing which, a 21 clear day notice period will apply.

Liquidation rights; redemption provisions

In the event of a liquidation of BP, after payment of all liabilities and applicable deductions under UK laws and subject to the payment of secured creditors, the holders of BP preference shares would be entitled to the sum of (1) the capital paid up on such shares plus, (2) accrued and unpaid dividends and (3) a premium equal to the higher of (a) 10% of the capital paid up on the BP preference shares and (b) the excess of the average market price over par value of such shares on the LSE during the previous six months. The remaining assets (if any) would be divided pro rata among the holders of ordinary shares.

Without prejudice to any special rights previously conferred on the holders of any class of shares, BP may issue any share with such preferred, deferred or other special rights, or subject to such restrictions as the shareholders by resolution determine (or, in the absence of any such resolutions, by determination of the directors), and may issue shares that are to be or may be redeemed.

Variation of rights

The rights attached to any class of shares may be varied with the consent in writing of holders of 75% of the shares of that class or on the adoption of a special resolution passed at a separate meeting of the holders of the shares of that class. At every such separate meeting, all of the provisions of the Articles of Association relating to proceedings at a general meeting apply, except that the quorum with respect to a meeting to change the rights attached to the preference shares is 10% or more of the shares of that class, and the quorum to change the rights attached to the ordinary shares is one third or more of the shares of that class.

Shareholders' meetings and notices

Shareholders must provide BP with a postal or electronic address in the UK to be entitled to receive notice of shareholders' meetings. Holders of BP ADSs are entitled to receive notices under the terms of the deposit agreement relating to BP ADSs. The substance and timing of notices are described above under the heading Voting rights.

Under the Act, the AGM of shareholders must be held once every year, within each six month period beginning with the day following the company's accounting reference date. All general meetings shall be held at a time and place (in England) determined by the directors.

If any shareholders' meeting is adjourned for lack of quorum, notice of the time and place of the adjourned meeting may be given in any lawful manner, including electronically. Powers exist for action to be taken either before or at the meeting by authorized officers to ensure its orderly conduct and safety of those attending.

Limitations on voting and shareholding

There are no limitations, either under the laws of the UK or under the company's Articles of Association, restricting the right of non-resident or foreign owners to hold or vote BP ordinary or preference shares in the company other than limitations that would generally apply to all of the shareholders and limitations applicable to certain countries and persons subject to EU economic sanctions or those sanctions adopted by the UK government which implement resolutions of the Security Council of the United Nations.

Disclosure of interests in shares

The Act permits a public company to give notice to any person whom the company believes to be or, at any time during the three years prior to the issue of the notice, to have been interested in its voting shares requiring them to disclose certain information with respect to those interests. Failure to supply the information required may lead to disenfranchisement of the relevant shares and a prohibition on their transfer and receipt of dividends and other payments in respect of those shares and any new shares in the company issued in respect of those shares. In this context the term 'interest' is widely defined and will generally include an interest of any kind whatsoever in voting shares, including any interest of a holder of BP ADSs.

Called-up share capital

Details of the allotted, called-up and fully-paid share capital at 31 December 2017 are set out in Financial statements – Note 29. At the AGM on 17 May 2017, authorization was given to the directors to allot shares up to an aggregate nominal amount equal to \$3,260 million. Authority was also given to the directors to allot shares for cash and to dispose of treasury shares, other than by way of rights issue, up to a maximum of \$490 million (of which \$245 million may be used in respect of an acquisition or capital investment), without having to offer such shares to existing shareholders. These authorities were given for the period until the next AGM in 2018 or 17 August 2018, whichever is the earlier. These authorities are renewed annually at the AGM.

Purchases of equity securities by the issuer and affiliated purchasers

In November 2017 BP began a share repurchase or buyback programme (the programme). The sole purpose of the programme is to reduce the issued share capital of the company to offset the ongoing dilutive effect of scrip dividends over time, as announced by the company on 31 October 2017. The period for which authorisation for the programme has been given is 15 November 2017 until the date of the company's 2018 annual general meeting (AGM). The maximum number of ordinary shares to be purchased will not exceed 1.96 billion ordinary shares, which is the maximum number of ordinary shares permitted to be purchased by the company pursuant to the authority granted by shareholders at the company's 2017 AGM. The shares purchased will be cancelled.

The following table provides details of ordinary share purchases made (1) under the programme and (2) by the Employee Share Ownership Plans (ESOPs) and other purchases of ordinary shares and ADSs made to satisfy the requirements of certain employee share-based payment plans.

| | Total number of shares purchased ^a | Average price paid per share \$ | Number of shares purchased by ESOPs or for certain employee share-based plans ^b | Number of shares purchased as part of the buyback programme ^c | Maximum approximate dollar value of shares yet to be purchased under the programme \$ million |
|------------|---|---------------------------------|--|--|---|
| 2017 | | | | | |
| January | Nil | | | N/A | N/A |
| February 7 | 250,000 | 5.80 | 250,000 | N/A | N/A |
| March | Nil | | | N/A | N/A |

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| | | | | | |
|-------------------------------|------------|------|-----------|------------|-----|
| April 26 | 43,180 | 5.74 | 43,180 | N/A | N/A |
| May 9 | 1,900,000 | 5.91 | 1,900,000 | N/A | N/A |
| June | Nil | | | N/A | N/A |
| July | Nil | | | N/A | N/A |
| August 7 – August 11 | 101,885 | 6.11 | 101,885 | N/A | N/A |
| September 1 – September 27 | 1,378,028 | 6.04 | 1,378,028 | N/A | N/A |
| October | Nil | | | N/A | N/A |
| November 1 – November 30 | 32,402,049 | 6.65 | 750,000 | 31,652,049 | N/A |
| December 5 – December 20 2018 | 19,639,695 | 6.75 | Nil | 19,639,695 | N/A |
| January | Nil | | | | N/A |
| February 6 – February 28 | 12,574,000 | 6.69 | 24,000 | 12,550,000 | N/A |
| March 8 | 1,000,000 | 6.58 | Nil | 1,000,000 | N/A |

^a All share purchases were of ordinary shares of 25 cents each and/or ADSs (each representing six ordinary shares) and were on/open market transactions.

^b Transactions represent the purchase of ordinary shares by ESOPs and other purchases of ordinary shares and ADSs made to satisfy requirements of certain employee share-based payment plans.

^c The company announced its intent to commence the programme on 31 October 2017 and announced further details and commencement of the programme on 15 November 2017. At the AGM on 17 May 2017, authorization was given to the company to repurchase up to 1.96 billion ordinary shares, for the period ending on the date of the AGM in 2018 or 17 August 2018, whichever is the earlier. This authorization is renewed annually at the AGM. The total number of ordinary shares repurchased during 2017 under the programme was 51,291,744 at a cost of \$343 million (including fees and stamp duty) representing 0.26% of BP's issued share capital excluding shares held in treasury on 31 December 2017. All ordinary shares repurchased in 2017 under the programme were cancelled in order to reduce BP's issued share capital.

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Fees and charges payable by ADS holders

The Depository collects fees for delivery and surrender of ADSs directly from investors depositing shares or surrendering ADSs for the purpose of withdrawal or from intermediaries acting for them. The Depository collects fees for making distributions to investors by deducting those fees from the amounts distributed or by selling a portion of the distributable property to pay the fees.

The charges of the Depository payable by investors are as follows:

| Type of service | Depository actions | Fee |
|--|--|--|
| | Issuance of ADSs against the deposit of shares, including deposits and issuances in respect of: | |
| Depositing or substituting the underlying shares | <ul style="list-style-type: none"> Share distributions, stock splits, rights, merger. Exchange of securities or other transactions or event or other distribution affecting the ADSs or deposited securities. | \$5.00 per 100 ADSs (or portion thereof) evidenced by the new ADSs delivered. |
| Selling or exercising rights | Distribution or sale of securities, the fee being an amount equal to the fee for the execution and delivery of ADSs that would have been charged as a result of the deposit of such securities. | \$5.00 per 100 ADSs (or portion thereof). |
| Withdrawing an underlying share | Acceptance of ADSs surrendered for withdrawal of deposited securities. | \$5.00 for each 100 ADSs (or portion thereof) evidenced by the ADSs surrendered. |
| | Expenses incurred on behalf of holders in connection with: | |
| | <ul style="list-style-type: none"> Stock transfer or other taxes and governmental charges. Delivery by cable, telex, electronic and facsimile transmission. Transfer or registration fees, if applicable, for the registration of transfers of underlying shares. | Expenses payable are subject to agreement between the company and the Depository by billing holders or by deducting charges from one or more cash dividends or other cash distributions. |
| Expenses of the Depository | Expenses of the Depository in connection with the conversion of foreign currency into US dollars (which are paid out of such foreign currency). | |
| Dividend fees | ADS holders who receive a cash dividend are charged a fee which BP uses to offset the costs associated with administering the ADS programme. | \$0.02 per BP ADS per calendar year (equivalent to \$0.005 per BP ADS per quarter per cash distribution). |
| Global Invest Direct ("GID") Plan | New investors and existing ADS holders can buy or sell BP ADSs by enrolling in BP's GID Plan, sponsored and administered by the Depository. | Cost per transaction is \$2.00 for recurring, \$2.00 for one-time automatic investments, and \$5.00 for investment made by check, plus \$0.12 commission per share. |

Fees and payments made by the Depository to the issuer

The Depository has agreed to reimburse certain company expenses related to the company's ADS programme and incurred by the company in connection with the ADS programme arising during the year ended 31 December 2017. The Depository reimbursed to the company, or paid amounts on the company's behalf to third parties, or waived its fees and expenses, of \$16,175,185.26 for the year ended 31 December 2017.

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The table below sets out the types of expenses that the Depositary has agreed to reimburse and the fees it has agreed to waive for standard costs associated with the administration of the ADS programme relating to the year ended 31 December 2017.

| Category of expense reimbursed, waived or paid directly to third parties | Amount reimbursed, waived or paid directly to third parties for the year ended 31 December 2017 |
|--|---|
| | \$ |
| Fees for delivery and surrender of BP ADSs | 712,698.23 |
| Dividend fees ^a | 15,462,487.03 |
| Total | 16,175,185.26 |

^a Dividend fees are charged to ADS holders who receive a cash distribution, which BP uses to offset the costs associated with administering the ADS programme.

Under certain circumstances, including removal of the Depositary or termination of the ADR programme by the company, the company is required to repay the Depositary certain amounts reimbursed and/or expenses paid to or on behalf of the company during the 12-month period prior to notice of removal or termination.

Documents on display

BP Annual Report and Form 20-F 2017 is available online at bp.com/annualreport. To obtain a hard copy of BP's complete audited financial statements, free of charge, UK based shareholders should contact BP Distribution Services by calling +44 (0)870 241 3269 or by emailing bpdistributionsservices@bp.com. If based in the US or Canada shareholders should contact Issuer Direct by calling +1 888 301 2505 or by emailing bpreports@issuerdirect.com. The company is subject to the information requirements of the US Securities Exchange Act of 1934 applicable to foreign private issuers. In accordance with these requirements, the company files its Annual Report and Form 20-F and other related documents with the SEC. It is possible to read and copy documents that have been filed with the SEC at its headquarters located at 100 F Street, NE, Washington, DC 20549, US. You may also call the SEC at +1 800-SEC-0330. In addition, BP's SEC filings are available to the public at the SEC's website. BP discloses in this report (see Corporate governance practices (Form 20-F Item 16G) on page 275) significant ways (if any) in which its corporate governance practices differ from those mandated for US companies under NYSE listing standards.

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Shareholding administration

If you have any queries about the administration of shareholdings, such as change of address, change of ownership, dividend payments, the Scrip Programme or to change the way you receive your company documents (such as the BP Annual Report and Form 20-F and Notice of BP Annual General Meeting) please contact the BP Registrar or the BP ADS Depository.

Ordinary and preference shareholders

The BP Registrar, Link Asset Services The Registry, 34 Beckenham Road, Beckenham, Kent BR3 4TU, UK

Freephone in UK 0800 701107

From outside the UK +44 (0)20 3170 3678

Fax +44 (0)1484 601512

ADS holders

The BP ADS Depository, JPMorgan Chase Bank, N.A.

PO Box 64504, St Paul, MN 55164-0504, US

Toll-free in US and Canada +1 877 638 5672

From outside the US and Canada +1 651 306 4383

2018 shareholder calendar^a

29 Mar 2018 Fourth quarter interim dividend payment for 2017

1 May 2018 First quarter results announced

11 May 2018 Record date (to be eligible for the first quarter interim dividend)

21 May 2018 Annual general meeting

22 Jun 2018 First quarter interim dividend payment for 2018

6 Jul 2018 8% and 9% preference shares record date

31 Jul 2018 Second quarter results announced

31 Jul 2018 8% and 9% preference shares dividend payment

10 Aug 2018 Record date (to be eligible for the second quarter interim dividend)

21 Sep 2018 Second quarter interim dividend payment for 2018

30 Oct 2018 Third quarter results announced

9 Nov 2018 Record date (to be eligible for the third quarter interim dividend)

21 Dec 2018 Third quarter interim dividend payment for 2018

^a All future dates are provisional and may be subject to change. For the full calendar see bp.com/financialcalendar.

Exhibits

The following documents are filed in the Securities and Exchange Commission (SEC) EDGAR system, as part of this Annual Report on Form 20-F, and can be viewed on the SEC's website.

Exhibit 1 Memorandum and Articles of Association of BP p.l.c.*****†

Exhibit 4.1 The BP Executive Directors' Incentive Plan*****†

Exhibit 4.3 Amended Director's Secondment Agreement for R W Dudley*****†

Exhibit 4.4 Amended Director's Service Contract and Secondment Agreement for R W Dudley**†

Exhibit 4.7 Director's Service Contract for Dr B Gilvary***†

Exhibit 4.10 The BP Share Award Plan 2015*****†

Exhibit 7 Computation of Ratio of Earnings to Fixed Charges (Unaudited)†

Exhibit 8 Subsidiaries (included as Note 35 to the Financial Statements)

Exhibit 11 Code of Ethics*†

Exhibit 12 Rule 13a – 14(a) Certifications†

Exhibit 13 Rule 13a – 14(b) Certifications#†

Exhibit 15.1 Consent of DeGolyer and MacNaughton†

Exhibit 15.2 Report of DeGolyer and MacNaughton†

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- Exhibit 15.3 Administrative Agreement dated as of 13 March 2014 among the US Environmental Protection Agency, BP p.l.c., and other BP subsidiaries*****†
- Exhibit 15.4 Consent Decree*****†
- Exhibit 15.5 Gulf states Settlement Agreement*****†
- Exhibit 15.6 Letter of Ernst & Young LLP dated 29 March 2018 pursuant to Item 16F of Form 20-F†

Exhibit 101 Interactive data files

- * Incorporated by reference to the company's Annual Report on Form 20-F for the year ended 31 December 2009.
- ** Incorporated by reference to the company's Annual Report on Form 20-F for the year ended 31 December 2010.
- *** Incorporated by reference to the company's Annual Report on Form 20-F for the year ended 31 December 2011.
- ***** Incorporated by reference to the company's Annual Report on Form 20-F for the year ended 31 December 2013.
- ***** Incorporated by reference to the company's Annual Report on Form 20-F for the year ended 31 December 2014.
- ***** Incorporated by reference to the company's Annual Report on Form 20-F for the year ended 31 December 2015.
- # Furnished only.
- † Included only in the annual report filed in the Securities and Exchange Commission EDGAR system.

The total amount of long-term securities of the Registrant and its subsidiaries authorized under any one instrument does not exceed 10% of the total assets of BP p.l.c. and its subsidiaries on a consolidated basis. The company agrees to furnish copies of any or all such instruments to the SEC on request.

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Glossary

Abbreviations

ADR

American depositary receipt.

ADS

American depositary share. 1 ADS = 6 ordinary shares.

Barrel (bbl)

159 litres, 42 US gallons.

bcf/d

Billion cubic feet per day.

bcfe

Billion cubic feet equivalent.

bcma

Billion cubic metres per annum.

b/d

Barrels per day.

boe/d

Barrels of oil equivalent per day.

DoJ

US Department of Justice.

GAAP

Generally accepted accounting practice.

Gas

Natural gas.

GHG

Greenhouse gas.

GWh

Gigawatt hour.

HSSE

Health, safety, security and environment.

IFRS

International Financial Reporting Standards.

KPIs

Key performance indicators.

LNG

Liquefied natural gas.

LPG

Liquefied petroleum gas.

mb/d

Thousand barrels per day.

mboe/d

Thousand barrels of oil equivalent per day.

mmb/d

Million barrels per day.

mmboe/d

Million barrels of oil equivalent per day.

mmBtu

Million British thermal units.

mmcf/d

Million cubic feet per day.

mte

Million tonnes.

MteCO₂

Million tonnes of CO₂ equivalent.

MW

Megawatt.

NGLs

Natural gas liquids.

PSA

Production-sharing agreement.

PTA

Purified terephthalic acid.

RC

Replacement cost.

SEC

The United States Securities and Exchange Commission.

Definitions

Unless the context indicates otherwise, the definitions for the following glossary terms are given below.

Non-GAAP measures are sometimes referred to as alternative performance measures.

Adjusted effective tax rate (ETR)

Non-GAAP measure. The adjusted ETR is calculated by dividing taxation on an underlying replacement cost (RC) basis excluding the impact of reductions in the rate of the UK North Sea supplementary charge (in 2016 and 2015) by underlying RC profit or loss before tax. Taxation on an underlying RC basis is taxation on a RC basis for the period adjusted for taxation on non-operating items and fair value accounting effects. Information on underlying RC profit or loss is provided below. BP believes it is helpful to disclose the adjusted ETR because this measure may help investors to understand and evaluate, in the same manner as management, the underlying trends in BP's operational performance on a comparable basis, period on period. The nearest equivalent measure on an IFRS basis is the ETR on profit or loss for the period. A reconciliation to GAAP information is provided on page 294.

We are unable to present reconciliations of forward-looking information for adjusted ETR to ETR on profit or loss for the period, because without unreasonable efforts, we are unable to forecast accurately certain adjusting items required to present a meaningful comparable GAAP forward-looking financial measure. These items include the taxation on inventory holding gains and losses, non-operating items and fair value accounting effects, that are difficult to predict in advance in order to include in a GAAP estimate.

Associate

An entity over which the group has significant influence and that is neither a subsidiary nor a joint arrangement of the group. Significant influence is the power to participate in the financial and operating policy decisions of the investee but is not control or joint control over those policies.

Brent

A trading classification for North Sea crude oil that serves as a major benchmark price for purchases of oil worldwide.

Capital expenditure

Total cash capital expenditure as stated in the group cash flow statement.

Consolidation adjustment – UPII

Unrealized profit in inventory arising on inter-segment transactions.

Commodity trading contracts

BP's Upstream and Downstream segments both participate in regional and global commodity trading markets in order to manage, transact and hedge the crude oil, refined products and natural gas that the group either produces or consumes in its manufacturing operations. These physical trading activities, together with associated incremental trading opportunities, are discussed in Upstream on page 26 and in Downstream on page 32. The range of contracts the group enters into in its commodity trading operations is described below. Using these contracts, in combination with rights to access storage and transportation capacity, allows the group to access advantageous

pricing differences between locations, time periods and arbitrage between markets.

Exchange-traded commodity derivatives

Contracts that are typically in the form of futures and options traded on a recognized exchange, such as Nymex and ICE. Such contracts are traded in standard specifications for the main marker crude oils, such as Brent and West Texas Intermediate; the main product grades, such as gasoline and gasoil; and for natural gas and power. Gains and losses, otherwise referred to as variation margin, are generally settled on a daily basis with the relevant exchange. These contracts are used for the trading and risk management of crude oil, refined products, and natural gas and power.

Realized and unrealized gains and losses on exchange-traded commodity derivatives are included in sales and other operating revenues for accounting purposes.

Over-the-counter contracts

Contracts that are typically in the form of forwards, swaps and options. Some of these contracts are traded bilaterally between counterparties or through brokers, others may be cleared by a central clearing counterparty. These contracts can be used both for trading and risk management activities. Realized and unrealized gains and losses on over-the-counter (OTC) contracts are included in sales and other operating revenues for accounting purposes. Many grades of crude oil bought and sold use standard contracts including US domestic light sweet crude oil, commonly referred to as West Texas Intermediate, and a standard North Sea crude blend – Brent, Forties, Oseberg and Ekofisk (BFOE). Forward contracts are used in connection with the purchase of crude oil supplies for refineries, products for marketing and sales of the group's oil production and refined products. The contracts typically contain standard delivery and settlement terms. These transactions call for physical delivery of oil with consequent operational and price risk. However, various means exist and are used from time to time, to settle obligations under the contracts in cash rather than through physical delivery. Because the physically settled transactions are delivered by cargo, the BFOE contract additionally specifies a standard volume and tolerance.

Gas and power OTC markets are highly developed in North America and the UK, where commodities can be bought and sold for delivery in future periods. These contracts are negotiated between two parties to purchase and sell gas and power at a specified price, with delivery and settlement at a future date. Typically, the contracts specify delivery terms for the underlying commodity. Some of these transactions are not settled physically as they can be achieved by transacting offsetting sale or purchase contracts for the same location and delivery period that are offset during the scheduling of delivery or dispatch. The contracts contain standard terms such as delivery point, pricing mechanism, settlement terms and specification of the commodity. Typically, volume, price and term (e.g. daily, monthly and balance of month) are the main variable contract terms.

Swaps are often contractual obligations to exchange cash flows between two parties. A typical swap transaction usually references a floating price and a fixed price with the net difference of the cash flows being settled. Options give the holder the right, but not the obligation, to buy or sell crude, oil products, natural gas or power at a specified price on or before a specific future date. Amounts under these derivative financial instruments are settled at expiry. Typically, netting agreements are used to limit credit exposure and support liquidity.

Spot and term contracts

Spot contracts are contracts to purchase or sell a commodity at the market price prevailing on or around the delivery date when title to the inventory is taken. Term contracts are contracts to purchase or sell a commodity at regular intervals over an agreed term. Though spot and term contracts may have a standard form, there is no offsetting mechanism in place. These transactions result in physical delivery with operational and price risk. Spot and term contracts typically relate to purchases of crude for a refinery, products for marketing, or third-party natural gas, or sales of the group's oil production, oil products or gas production to third parties. For accounting purposes, spot and term sales are included in sales and other operating revenues when title passes. Similarly, spot and term purchases are included in purchases for accounting purposes.

Divestment proceeds

Disposal proceeds as per the group cash flow statement.

Dividend yield

Sum of the four quarterly dividends announced in respect of the year as a percentage of the year-end share price on the respective exchange.

Effective tax rate (ETR) on replacement cost (RC) profit or loss

Non-GAAP measure. The ETR on RC profit or loss is calculated by dividing taxation on a RC basis by RC profit or loss before tax. Information on RC profit or loss is provided below. BP believes it is helpful to disclose the ETR on RC profit or loss because this measure excludes the impact of price changes on the replacement of inventories and allows for more meaningful comparisons between reporting periods. The nearest equivalent measure on an IFRS basis is the ETR on profit or loss for the period. A reconciliation to GAAP information is provided on page 294.

Fair value accounting effects

Non-GAAP adjustments to IFRS profit or loss. We use derivative instruments to manage the economic exposure relating to inventories above normal operating requirements of crude oil, natural gas and petroleum products. Under IFRS, these inventories are recorded at historical cost. The related derivative instruments, however, are required to be recorded at fair value with gains and losses recognized in the income statement. This is because hedge accounting is either not permitted or not followed, principally due to the impracticality of effectiveness-testing requirements. Therefore, measurement differences in relation to recognition of gains and losses occur. Gains and losses on these inventories are not recognized until the commodity is sold in a subsequent accounting period. Gains and losses on the related derivative commodity contracts are recognized in the income statement, from the time the derivative commodity contract is entered into, on a fair value basis using forward prices consistent with the contract maturity. BP enters into physical commodity contracts to meet certain business requirements, such as the purchase of crude for a refinery or the sale of BP's gas production. Under IFRS these contracts are treated as derivatives and are required to be fair valued when they are managed as part of a larger portfolio of similar transactions. In addition, derivative instruments are used to manage the price risk associated with certain future natural gas sales. Gains and losses arising are recognized in the income statement from the time the derivative commodity contract is entered into. IFRS require that inventory held for trading is recorded at its fair value using period-end spot prices, whereas any related derivative commodity instruments are required to be recorded at values based on forward prices consistent with the contract maturity. Depending on market conditions, these forward prices can be either higher or lower than spot prices, resulting in measurement differences.

BP enters into contracts for pipelines and storage capacity, oil and gas processing and liquefied natural gas (LNG) that, under IFRS, are recorded on an accruals basis. These contracts are risk-managed using a variety of derivative instruments that are fair valued under IFRS. This results in measurement differences in relation to recognition of gains and losses.

The way BP manages the economic exposures described above, and measures performance internally, differs from the way these activities are measured under IFRS. BP calculates this difference for consolidated entities by comparing the IFRS result with management's internal measure of performance. Under management's internal measure of performance the inventory and capacity contracts in question are valued based on fair value using relevant forward prices prevailing at the end of the period. The fair values of certain derivative instruments used to risk manage certain LNG and oil and gas contracts and gas sales contracts, are deferred to match with the underlying exposure and the commodity contracts for business requirements are accounted for on an accruals basis. We believe that disclosing management's estimate of this difference provides useful information for investors because it enables investors to see the economic effect of these activities as a whole. A reconciliation to GAAP information is provided on page 294.

Free cash flow

Operating cash flow less net cash used in investing activities, as presented in the group cash flow statement.

Full dividend

Full dividend is cash dividend plus cash equivalent value of scrip dividend.

Gearing

See Net debt and net debt ratio definition.

Gross debt ratio

Gross debt ratio is defined as the ratio of gross debt to the total of gross debt plus shareholders' equity.

Henry Hub

A distribution hub on the natural gas pipeline system in Erath, Louisiana, that lends its name to the pricing point for natural gas futures contracts traded on the New York Mercantile Exchange and the over-the-counter swaps traded on Intercontinental Exchange.

Hydrocarbons

Liquids and natural gas. Natural gas is converted to oil equivalent at 5.8 billion cubic feet = 1 million barrels.

Inorganic capital expenditure

A subset of capital expenditure and is a non-GAAP measure. Inorganic capital expenditure comprises consideration in business combinations and certain other significant investments made by the group. It is reported on a cash basis. BP believes that this measure provides useful information as it allows investors to understand how BP's management invests funds in projects which expand the group's activities through acquisition. An analysis of organic capital expenditure by segment and region, and a reconciliation to GAAP information is provided on page 248.

Inventory holding gains and losses

The difference between the cost of sales calculated using the replacement cost of inventory and the cost of sales calculated on the first-in first-out (FIFO) method after adjusting for any changes in provisions where the net realizable value of the inventory is lower than its cost. Under the FIFO method, which we use for IFRS reporting, the cost of inventory charged to the income statement is based on its historical cost of purchase or manufacture, rather than its replacement cost. In volatile energy markets, this can have a significant distorting effect on reported income. The amounts disclosed represent the difference between the charge to the income statement for inventory on a FIFO basis (after adjusting for any related movements in net realizable value provisions) and the charge that would have arisen based on the replacement cost of inventory. For this purpose, the replacement cost of inventory is calculated using data from each operation's production and manufacturing system, either on a monthly basis, or separately for each transaction where the system allows this approach. The amounts disclosed are not separately reflected in the financial statements as a gain or loss. No adjustment is made in respect of the cost of inventories held as part of a trading position and certain other temporary inventory positions. See Replacement cost (RC) profit or loss definition below.

Joint arrangement

An arrangement in which two or more parties have joint control.

Joint control

Contractually agreed sharing of control over an arrangement, which exists only when decisions about the relevant activities require the unanimous consent of the parties sharing control.

Joint operation

A joint arrangement whereby the parties that have joint control of the arrangement have rights to the assets, and obligations for the liabilities, relating to the arrangement.

Joint venture

A joint arrangement whereby the parties that have joint control of the arrangement have rights to the net assets of the arrangement.

Liquids

Comprises crude oil, condensate and natural gas liquids. For the Upstream segment, it also includes bitumen.

LNG train

An LNG train is a processing facility used to liquefy and purify natural gas in the formation of LNG.

Major projects

Have a BP net investment of at least \$250 million, or are considered to be of strategic importance to BP or of a high degree of complexity.

Net debt and net debt ratio (gearing)

Non-GAAP measures. Net debt is calculated as gross finance debt, as shown in the balance sheet, plus the fair value of associated derivative financial instruments that are used to hedge foreign currency exchange and interest rate risks relating to finance debt, for which hedge accounting is applied, less cash and cash equivalents. The net debt ratio is defined as the ratio of net debt to the total of net debt plus total shareholders' equity. All components of equity are included in the denominator of the calculation. BP believes these measures provide useful information to investors. Net debt enables investors to see the economic effect of gross debt, related hedges and cash and cash equivalents in total. The net debt ratio enables investors to see how significant net debt is relative to equity from shareholders. The derivatives are reported on the balance sheet within the headings 'Derivative financial instruments'. See Financial statements – Note 25 for information on gross debt, which is the nearest equivalent measure to net debt on an IFRS basis.

We are unable to present reconciliations of forward-looking information for net debt ratio to gross debt ratio, because without unreasonable efforts, we are unable to forecast accurately certain adjusting items required to present a meaningful comparable GAAP forward-looking financial measure. These items include fair value asset (liability) of hedges related to finance debt and cash and cash equivalents, that are difficult to predict in advance in order to include in a GAAP estimate.

Net generating capacity

The sum of the rated capacities of the assets/turbines that have entered into commercial operation, including BP's share of equity-accounted entities. The gross data is the equivalent capacity on a gross-joint venture basis, which includes 100% of the capacity of equity-accounted entities where BP has partial ownership.

Non-operating items

Charges and credits are included in the financial statements that BP discloses separately because it considers such disclosures to be meaningful and relevant to investors. They are items that management considers not to be part of underlying business operations and are disclosed in order to enable investors better to understand and evaluate the group's reported financial performance. Non-operating items within equity-accounted earnings are reported net of incremental income tax reported by the equity-accounted entity. An analysis of non-operating items by segment and type is shown on page 250.

Operating cash flow

Net cash provided by (used in) operating activities as stated in the group cash flow statement. When used in the context of a segment rather than the group, the terms refer to the segment's share thereof.

Operating cash flow excluding Gulf of Mexico oil spill payments

Non-GAAP measure. It is calculated by excluding post-tax operating cash flows relating to the Gulf of Mexico oil spill as reported in Financial statements – Note 2 from net cash provided by operating activities as reported in the group cash flow statement. BP believes net cash provided by operating activities excluding amounts related to the Gulf of Mexico oil spill is a useful measure as it allows for more meaningful comparisons between reporting periods. The nearest equivalent measure on an IFRS basis is net cash provided by operating activities. Organic free cash flow is operating cash flow excluding Gulf of Mexico oil spill payments less organic capital expenditure.

Operating cash margin – Upstream

Operating cash margin is operating cash flow divided by the applicable number of barrels of oil equivalent produced, at \$52/bbl flat oil prices. Expected operating cash margins are calculated over the period 2016-2025.

Operating management system (OMS)

BP's OMS helps us manage risks in our operating activities by setting out BP's principles for good operating practice. It brings together BP requirements on health, safety, security, the environment, social responsibility and operational reliability, as well as related issues, such as maintenance, contractor relations and organizational learning, into a common management system.

Organic capital expenditure

A subset of capital expenditure and is a non-GAAP measure. Organic capital expenditure comprises capital expenditure less inorganic capital expenditure. BP believes that this measure provides useful information as it allows investors to understand how BP's management invests funds in developing and maintaining the group's assets. An analysis of organic capital expenditure by segment and region, and a reconciliation to GAAP information is provided on page 248.

We are unable to present reconciliations of forward-looking information for organic capital expenditure to total cash capital expenditure, because without unreasonable efforts, we are unable to forecast accurately the adjusting item, inorganic capital expenditure, that is difficult to predict in advance in order to derive the nearest GAAP estimate.

Organic sources of cash and organic uses of cash

Non-GAAP measure. Organic sources of cash is the sum of operating cash flow, excluding Gulf of Mexico oil spill payments, and proceeds of loan repayments. Organic uses of cash is the sum of organic capital expenditure, dividends and share buybacks. Organic sources of cash and organic uses of cash are referred to as organic cash flows which is also a non-GAAP measure. The nearest equivalent measure on an IFRS basis for organic sources of cash is net cash provided by operating activities and the nearest equivalent measures on an IFRS basis for organic uses of cash are total cash capital expenditure, dividends paid to BP shareholders and net issue (repurchase) of shares.

Production-sharing agreement (PSA) / Production-sharing contract

An arrangement through which an oil and gas company bears the risks and costs of exploration, development and production. In return, if exploration is successful, the oil company receives entitlement to variable physical volumes of hydrocarbons, representing recovery of the costs incurred and a stipulated share of the production remaining after such cost recovery.

Readily marketable inventory (RMI)

RMI is inventory held and price risk-managed by our integrated supply and trading function (IST) which could be sold to generate funds if required. It comprises oil and oil products for which liquid markets are available and excludes inventory which is required to meet operational requirements and other inventory which is not price risk-managed. RMI is reported at fair value. Inventory held by the Downstream fuels business for the purpose of sales and marketing, and all inventories relating to the lubricants and petrochemicals businesses, are not included in RMI. BP believes that disclosing the amounts of RMI and paid-up RMI is useful to investors as it enables them to better understand and evaluate the group's inventories and liquidity position by enabling them to see the level of discretionary inventory held by IST and to see builds or releases of liquid trading inventory.

Paid-up RMI excludes RMI which has not yet been paid for. For inventory that is held in storage, a first-in first-out (FIFO) approach is used to determine whether inventory has been paid for or not. Unpaid RMI is RMI which has not yet been paid for by BP. RMI, RMI at fair value, Paid-up RMI and Unpaid RMI are non-GAAP measures. A reconciliation of total inventory as reported on the group balance sheet to paid-up RMI is provided on page 296.

Realizations

Realizations are the result of dividing revenue generated from hydrocarbon sales, excluding revenue generated from purchases made for resale and royalty volumes, by revenue generating hydrocarbon production volumes. Revenue generating hydrocarbon production reflects the BP share of production as adjusted for any production which does not generate revenue. Adjustments may include losses due to shrinkage, amounts consumed during processing, and contractual or regulatory host committed volumes such as royalties. For the Upstream segment, realizations include transfers between businesses.

Refining availability

Represents Solomon Associates' operational availability, which is defined as the percentage of the year that a unit is available for processing after subtracting the annualized time lost due to turnaround activity and all planned

mechanical, process and regulatory downtime.

Refining marker margin (RMM)

The average of regional indicator margins weighted for BP's crude refining capacity in each region. Each regional marker margin is based on product yields and a marker crude oil deemed appropriate for the region. The regional indicator margins may not be representative of the margins achieved by BP in any period because of BP's particular refinery configurations and crude and product slate.

Refining net cash margin per barrel

Refining net cash margin is defined by Solomon Associates as the net margin achieved after subtracting cash operating expenses and adding any refinery revenue from other sources. Net cash margin is expressed in US dollars per barrel of net refinery input.

Refinery utilization

Refinery utilization is calculated as annual throughput (thousands of barrels per day) divided by crude distillation capacity.

Replacement cost (RC) profit or loss

Reflects the replacement cost of inventories sold in the period and is arrived at by excluding inventory holding gains and losses from profit or loss. RC profit or loss is the measure of profit or loss that is required to be disclosed for each operating segment under IFRS. RC profit or loss for the group is a non-GAAP measure. Management believes this measure is useful to illustrate to investors the fact that crude oil and product prices can vary significantly from period to period and that the impact on our reported result under IFRS can be significant. Inventory holding gains and losses vary from period to period due to changes in prices as well as changes in underlying inventory levels. In order for investors to understand the operating performance of the group excluding the impact of price changes on the replacement of inventories, and to make comparisons of operating performance between reporting periods, BP's management believes it is helpful to disclose this measure. The nearest equivalent measure on an IFRS basis is profit or loss attributable to BP shareholders. See Financial statements – Note 4. A reconciliation to GAAP information is provided on page 248.

RC profit or loss per share

Non-GAAP measure. Earnings per share is defined in Financial statements – Note 9. RC profit or loss per share is calculated using the same denominator. The numerator used is RC profit or loss attributable to BP shareholders rather than profit or loss attributable to BP shareholders. BP believes it is helpful to disclose the RC profit or loss per share because this measure excludes the impact of price changes on the replacement of inventories and allows for more meaningful comparisons between reporting periods. The nearest equivalent measure on an IFRS basis is basic earnings per share based on profit or loss for the period attributable to BP shareholders. A reconciliation to GAAP information is provided on page 294.

Reserves replacement ratio

The extent to which production is replaced by proved reserves additions. This ratio is expressed in oil equivalent terms and includes changes resulting from revisions to previous estimates, improved recovery, and extensions and discoveries.

Return on average capital employed

Non-GAAP measure. Return on average capital employed (ROACE) is underlying replacement cost profit, after adding back non-controlling interest and interest expense net of notional tax at an assumed 35%, divided by average capital employed, excluding cash and cash equivalents and goodwill. Interest expense is finance costs excluding the unwinding of the discount on provisions and other payables. BP believes it is helpful to disclose the ROACE because this measure gives an indication of the company's capital efficiency. The nearest GAAP measures of the numerator and denominator are profit or loss for the period attributable to BP shareholders and average capital employed respectively. The reconciliation of the numerator and denominator is provided on page 295.

We are unable to present forward-looking information of the nearest GAAP measures of the numerator and denominator for ROACE, because without unreasonable efforts, we are unable to forecast accurately certain adjusting items required to calculate a meaningful comparable GAAP forward-looking financial measure. These items include inventory holding gains or losses and interest net of tax, that are difficult to predict in advance in order to include in a GAAP estimate.

Subsidiary

An entity that is controlled by the BP group. Control of an investee exists when an investor is exposed, or has rights, to variable returns from its involvement with the investee and has the ability to affect those returns through its power over the investee.

Tier 1 process safety events

Losses of primary containment from a process of greatest consequence - causing harm to a member of the workforce, costly damage to equipment or exceeding defined quantities. This represents reported incidents occurring within BP's operational HSSE reporting boundary. That boundary includes BP's own operated facilities and certain other locations or situations.

Tight oil and gas

Natural oil and gas reservoirs locked in hard sandstone rocks with low permeability, making the underground formation extremely tight.

UK National Balancing Point

A virtual trading location for sale, purchase and exchange of UK natural gas. It is the pricing and delivery point for the Intercontinental Exchange natural gas futures contract.

Unconventionals

Resources found in geographic accumulations over a large area, that usually present additional challenges to development such as low permeability or high viscosity. Examples include shale gas and oil, coalbed methane, gas hydrates and natural bitumen deposits. These typically require specialized extraction technology such as hydraulic fracturing or steam injection.

Underlying production

Production after adjusting for divestments and entitlement impacts in our production-sharing agreements. 2017 underlying production does not include the Abu Dhabi onshore concession renewal.

Underlying RC profit or loss

Non-GAAP measure. RC profit or loss after adjusting for non-operating items and fair value accounting effects. See page 250 and 294 for additional information on the non-operating items and fair value accounting effects that are used to arrive at underlying RC profit or loss in order to enable a full understanding of the events and their financial impact. BP believes that underlying RC profit or loss is a useful measure for investors because it is a measure closely tracked by management to evaluate BP's operating performance and to make financial, strategic and operating decisions and because it may help investors to understand and evaluate, in the same manner as management, the underlying trends in BP's operational performance on a comparable basis, year on year, by adjusting for the effects of these non-operating items and fair value accounting effects.

The nearest equivalent measure on an IFRS basis for the group is profit or loss for the year attributable to BP shareholders. The nearest equivalent measure on an IFRS basis for segments is RC profit or loss before interest and taxation. Underlying profit in the group chief executive's letter on page 8 refers to full year underlying RC profit for the group. A reconciliation to GAAP information is provided on page 248.

Underlying RC profit or loss per share

Non-GAAP measure. Earnings per share is defined Financial statements – Note 9. Underlying RC profit or loss per share is calculated using the same denominator. The numerator used is underlying RC profit or loss attributable to BP shareholders rather than profit or loss attributable to BP shareholders. BP believes it is helpful to disclose the underlying RC profit or loss per share because this measure may help investors to understand and evaluate, in the same manner as management, the underlying trends in BP's operational performance on a comparable basis, period on period. The nearest equivalent measure on an IFRS basis is basic earnings per share based on profit or loss for the period attributable to BP shareholders. A reconciliation to GAAP information is provided on page 294.

Upstream operating efficiency

Upstream operating efficiency is calculated as production for BP operated sites, excluding US Lower 48 and adjusted for certain items including entitlement impacts in our production-sharing agreements divided by installed production capacity for BP operated sites, excluding US Lower 48. Installed production capacity is the agreed rate achievable (measured at the export end of the system) when the installed production system (reservoir, wells, plant and export) is fully optimized and operated at full rate with no planned or unplanned deferrals.

Upstream plant reliability

BP-operated Upstream plant reliability is calculated taking 100% less the ratio of total unplanned plant deferrals divided by installed production capacity. Unplanned plant deferrals are associated with the topside plant and where applicable the subsea equipment (excluding wells and reservoir). Unplanned plant deferrals include breakdowns, which does not include Gulf of Mexico weather related downtime.

Upstream unit production cost

Upstream unit production cost is calculated as production cost divided by units of production. Production cost does not include ad valorem and severance taxes. Units of production are barrels for liquids and thousands of cubic feet for gas. Amounts disclosed are for BP subsidiaries only and do not include BP's share of equity-accounted entities.

West Texas Intermediate (WTI)

A light sweet crude oil, priced at Cushing, Oklahoma, which serves as a benchmark price for purchases of oil in the US.

Trade marks

Trade marks of the BP group appear throughout this report. They include: ACTIVE, ampm, Aral, ARCO, BP, BP Fleetmove, BPme, BP Ultimate, Castrol, EDGE BIO-SYNTHETIC, PTAir

Trade marks:

Amazon Web Services is a registered trade mark of Amazon Technologies, Inc.

Butamax is a registered trade mark of Butamax Advance Biofuels LLC.

DrillPlan is a registered trade mark of Schlumberger Technology Corporation.

M&S Simply Food is a registered trade mark of Marks & Spencer plc.

Microsoft Azure a registered trade mark of Microsoft Corporation.

Nectar is a registered trade mark of Aimia US Inc.

PAYBACK is a registered trade mark of PAYBACK GmbH.

Pick n Pay is a registered trade mark of Pick n Pay Stores Limited.

REWE to go is a registered trade mark of REWE.

Non-GAAP measures reconciliations

Non-GAAP information on fair value accounting effects

The impacts of fair value accounting effects, relative to management's internal measure of performance, and a reconciliation to GAAP information is set out below. Further information on fair value accounting effects is provided on page 290.

| | \$ million | | |
|---|------------|----------|-------|
| | 2017 | 2016 | 2015 |
| Upstream | | | |
| Unrecognized (gains) losses brought forward from previous period ^a | (393) | 263 | 191 |
| Favourable (adverse) impact relative to management's measure of performance | 27 | (637) | 105 |
| Exchange translation gains (losses) on fair value accounting effects | 2 | (19) | — |
| Unrecognized (gains) losses carried forward | (364) | (393) | 296 |
| Downstream ^b | | | |
| Unrecognized (gains) losses brought forward from previous period ^a | (71) | 377 | 188 |
| Favourable (adverse) impact relative to management's measure of performance | (135) | (448) | 156 |
| Unrecognized (gains) losses carried forward | (206) | (71) | 344 |
| Favourable (adverse) impact relative to management's measure of performance – by region | | | |
| Upstream | | | |
| US | 192 | (379) | (66) |
| Non-US | (165) | (258) | 171 |
| | 27 | (637) | 105 |
| Downstream ^b | | | |
| US | (29) | (321) | 102 |
| Non-US | (106) | (127) | 54 |
| | (135) | (448) | 156 |
| | (108) | (1,085) | 261 |
| Taxation credit (charge) | 12 | 329 | (56) |
| | (96) | (756) | 205 |

^a 2016 brought forward fair value accounting effect balances include a \$33-million adjustment between Upstream and Downstream as part of the transfer of certain emission trading balances between these segments.

^b Fair value accounting effects arise solely in the fuels business.

Reconciliation of non-GAAP information

| | \$ million | | |
|---|------------|----------|----------|
| | 2017 | 2016 | 2015 |
| Upstream | | | |
| RC profit (loss) before interest and tax adjusted for fair value accounting effects | 5,194 | 1,211 | (1,042) |
| Impact of fair value accounting effects | 27 | (637) | 105 |
| RC profit (loss) before interest and tax | 5,221 | 574 | (937) |
| Downstream | | | |
| RC profit before interest and tax adjusted for fair value accounting effects | 7,356 | 5,610 | 6,955 |
| Impact of fair value accounting effects | (135) | (448) | 156 |
| RC profit before interest and tax | 7,221 | 5,162 | 7,111 |
| Total group | | | |
| Profit (loss) before interest and tax adjusted for fair value accounting effects | 9,582 | 655 | (8,179) |
| Impact of fair value accounting effects | (108) | (1,085) | 261 |
| Profit (loss) before interest and tax | 9,474 | (430) | (7,918) |

Reconciliation of basic earnings per ordinary share to RC profit (loss) per share and to underlying RC profit per share
Per ordinary share – cents

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| | 2017 | 2016 | 2015 | 2014 | 2013 |
|--|--------|---------|---------|---------|---------|
| Profit (loss) for the year ^a | 17.20 | 0.61 | (35.39) | 20.55 | 123.87 |
| Inventory holding (gains) losses, before tax | (4.32) | (8.52) | 10.31 | 33.78 | 1.53 |
| Taxation charge (credit) on inventory holding gains and losses | 1.14 | 2.58 | (3.10) | (10.43) | (0.32) |
| RC profit (loss) for the year | 14.02 | (5.33) | (28.18) | 43.90 | 125.08 |
| Net (favourable) adverse impact of non-operating items and fair value accounting effects, before tax | 18.94 | 35.99 | 82.23 | 44.79 | (48.83) |
| Taxation charge (credit) on non-operating items and fair value accounting effects | (1.65) | (16.87) | (21.83) | (22.69) | (5.33) |
| Underlying RC profit for the year | 31.31 | 13.79 | 32.22 | 66.00 | 70.92 |

^a Profit attributable to BP shareholders.

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Reconciliation of effective tax rate (ETR) to ETR on RC profit or loss and adjusted ETR

Taxation (charge) credit

| | \$ million | | | | |
|---|------------|--------|---------|---------|---------|
| | 2017 | 2016 | 2015 | 2014 | 2013 |
| Taxation on profit or loss for the year | (3,712) | 2,467 | 3,171 | (947) | (6,463) |
| Adjusted for taxation on inventory holding gains and losses | (225) | (483) | 569 | 1,917 | 60 |
| Taxation on a RC profit or loss basis | (3,487) | 2,950 | 2,602 | (2,864) | (6,523) |
| Adjusted for taxation on non-operating items and fair value accounting effects | 1,184 | 3,162 | 4,000 | 4,171 | 1,009 |
| Adjusted for the impact of US tax reform | (859) | — | — | — | — |
| Adjusted for the impact of the reduction in the rate of the UK North Sea supplementary charge | — | 434 | 915 | — | — |
| Adjusted taxation | (3,812) | (646) | (2,313) | (7,035) | (7,532) |

Effective tax rate

| | % | | | | |
|---|------|-------|-------|------|------|
| | 2017 | 2016 | 2015 | 2014 | 2013 |
| ETR on profit or loss for the year | 52 | 107 | 33 | 19 | 21 |
| Adjusted for inventory holding gains and losses | 3 | (31) | 1 | 7 | — |
| ETR on RC profit or loss | 55 | 76 | 34 | 26 | 21 |
| Adjusted for non-operating items and fair value accounting effects | (9) | (69) | (15) | 10 | 14 |
| Adjusted for the impact of US tax reform | (8) | — | — | — | — |
| Adjusted for the impact of the reduction in the rate of the UK North Sea supplementary charge | — | 16 | 12 | — | — |
| Adjusted ETR | 38 | 23 | 31 | 36 | 35 |

Return on average capital employed (ROACE)

| | \$ million | | | | | |
|---|------------|----------|----------|---------|-----------|---|
| | 2017 | 2016 | 2015 | 2014 | 2013 | |
| Profit (loss) for the year attributable to BP shareholders | 3,389 | 115 | (6,482) | 3,780 | 23,451 | |
| Inventory holding (gains) losses, net of tax | (628) | (1,114) | 1,320 | 4,293 | 230 | |
| Non-operating items and fair value accounting effects, net of tax | 3,405 | 3,584 | 11,067 | 4,063 | (10,253) | |
| Underlying RC profit | 6,166 | 2,585 | 5,905 | 12,136 | 13,428 | |
| Interest expense, net of tax ^a | 924 | 635 | 576 | 546 | 549 | |
| Non-controlling interests | 79 | 57 | 82 | 223 | 307 | |
| Adjusted underlying RC profit | 7,169 | 3,277 | 6,563 | 12,905 | 14,284 | |
| Total equity | 100,404 | 96,843 | 98,387 | 112,642 | 130,407 | |
| Gross debt | 63,230 | 58,300 | 53,168 | 52,854 | 48,192 | |
| Capital employed (2017 average \$159,389 million) | 163,634 | 155,143 | 151,555 | 165,496 | 178,599 | |
| Less: Goodwill | 11,551 | 11,194 | 11,627 | 11,868 | 12,181 | |
| Cash and cash equivalents | 25,586 | 23,484 | 26,389 | 29,763 | 22,520 | |
| | 126,497 | 120,465 | 113,539 | 123,865 | 143,898 | |
| Average capital employed excluding goodwill and cash and cash equivalents | 123,481 | 117,002 | 118,702 | 133,882 | 140,313 | |
| ROACE | 5.8 | %2.8 | %5.5 | %9.6 | %10.2 | % |

^a Calculated on a post-tax basis using a notional tax rate of 35%.

Readily marketable inventory (RMI)

Readily marketable inventory (RMI) is oil and oil products inventory held and price risk-managed by BP's integrated supply and trading function (IST) which could be sold to generate funds if required. Details of RMI balances and a reconciliation to GAAP information is set out below. Further information on RMI, RMI at fair value, paid-up RMI and unpaid RMI is provided on page 292.

| At 31 December | \$ million | |
|--|------------|----------|
| | 2017 | 2016 |
| RMI at fair value | 5,661 | 5,952 |
| Paid-up RMI | 2,688 | 2,705 |
| Reconciliation of non-GAAP information | | |
| At 31 December | \$ million | |
| | 2017 | 2016 |
| Reconciliation of total inventory to paid-up RMI | | |
| Inventories as reported on the group balance sheet | 19,011 | 17,655 |
| Less: (a) inventories which are not oil and oil products and (b) oil and oil product inventories which are not risk-managed by IST | (13,929) | (12,131) |
| RMI on IFRS basis | 5,082 | 5,524 |
| Plus: difference between RMI at fair value and RMI on an IFRS basis | 579 | 428 |
| RMI at fair value | 5,661 | 5,952 |
| Less: unpaid RMI at fair value | (2,973) | (3,247) |
| Paid-up RMI | 2,688 | 2,705 |

The Directors' report on pages 59-89, 191-218 and 247-296 was approved by the board and signed on its behalf by David J Jackson, company secretary on 29 March 2018.

BP p.l.c.

Registered in England and Wales No. 102498

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Signatures

The registrant hereby certifies that it meets all of the requirements for filing on Form 20-F and that it has duly caused and authorized the undersigned to sign this annual report on its behalf.

BP p.l.c.
(Registrant)

/s/ David J Jackson
Company secretary
29 March 2018

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Cross reference to Form 20-F

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| | | |
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This document constitutes the Annual Report and Accounts in accordance with UK requirements and the Annual Report on Form 20-F in accordance with the US Securities Exchange Act of 1934, for BP p.l.c. for the year ended 31 December 2017. A cross reference to Form 20-F requirements is included on page 298.

This document contains the Strategic report on the inside front cover and pages 1-58 and the Directors' report on pages 59-89, 191-218 and 247-296. The Strategic report and the Directors' report together include the management report required by DTR 4.1 of the UK Financial Conduct Authority's Disclosure Guidance and Transparency Rules. The Directors' remuneration report is on pages 90-112. The consolidated financial statements of the group are on pages 115-190 and the corresponding reports of the auditor are on pages 123-124.

Registered in England and Wales
No. 102498.
London Stock Exchange symbol 'BP.'

BP Annual Report and Form 20-F 2017 may be downloaded from bp.com/annualreport. No material on the BP website, other than the items identified as BP Annual Report and Form 20-F 2017, forms any part of this document. References in this document to other documents on the BP website, such as BP Energy Outlook, BP Sustainability Report, Advancing the energy transition, BP Statistical Review of World Energy and BP Technology Outlook are included as an aid to their location and are not incorporated by reference into this document.

Our agent in the US:

BP p.l.c. is the parent company of the BP group of companies. The company was incorporated in 1909 in England and Wales and changed its name to BP p.l.c. in 2001. Where we refer to the company, we mean BP p.l.c. Unless otherwise stated, the text does not distinguish between the activities and operations of the parent company and those of its subsidiaries, and information in this document reflects 100% of the assets and operations of the company and its subsidiaries that were consolidated at the date or for the periods indicated, including non-controlling interests.

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BP's primary share listing is the London Stock Exchange. Ordinary shares are also traded on the Frankfurt Stock Exchange in Germany and, in the US, the company's securities are traded on the New York Stock Exchange (NYSE) in the form of ADSs (see page 280 for more details).

The term 'shareholder' in this report means, unless the context otherwise requires, investors in the equity capital of BP p.l.c., both direct and indirect. As BP shares, in the form of ADSs, are listed on the NYSE, an Annual Report on Form 20-F is filed with the SEC. Ordinary shares are ordinary fully paid shares in BP p.l.c. of 25 cents each. Preference shares are cumulative first preference shares and cumulative second preference shares in BP p.l.c. of £1 each.

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