2019

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

FORM 10-K

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

For the fiscal year ended December 31, 2019

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

For the transition period from to

Commission File Number 1-2256

Exxon Mobil Corporation

(Exact name of registrant as specified in its charter)

New Jersey

(State or other jurisdiction of incorporation or organization)

13-5409005 (I.R.S. Employer

Identification Number)

5959 Las Colinas Boulevard, Irving, Texas 75039-2298

(Address of principal executive offices) (Zip Code) (972) 940-6000

(Registrant's telephone number, including area code)

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

Title of Each Class	Trading Symbol	on Which Registered
Common Stock, without par value	XOM	New York Stock Exchange

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

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes 🗆 No 🗹

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 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, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer	\checkmark	Accelerated filer	
Non-accelerated filer		Smaller reporting company	
		Emerging growth company	

If an emerging growth company, 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. \Box

Indicate by check mark whether the registrant is a shell company (as defined by Rule 12b-2 of the Act). Yes \Box No \Box

The aggregate market value of the voting stock held by non-affiliates of the registrant on June 28, 2019, the last business day of the registrant's most recently completed second fiscal quarter, based on the closing price on that date of \$76.63 on the New York Stock Exchange composite tape, was in excess of \$324 billion.

Class Common stock, without par value Outstanding as of January 31, 2020 4,232,190,744

Documents Incorporated by Reference: Proxy Statement for the 2020 Annual Meeting of Shareholders (Part III)

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EXXON MOBIL CORPORATION FORM 10-K FOR THE FISCAL YEAR ENDED DECEMBER 31, 2019

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ITEM 1. BUSINESS

PART I

Exxon Mobil Corporation was incorporated in the State of New Jersey in 1882. Divisions and affiliated companies of ExxonMobil operate or market products in the United States and most other countries of the world. Their principal business involves exploration for, and production of, crude oil and natural gas and manufacture, trade, transport and sale of crude oil, natural gas, petroleum products, petrochemicals and a wide variety of specialty products. Affiliates of ExxonMobil conduct extensive research programs in support of these businesses.

Exxon Mobil Corporation has several divisions and hundreds of affiliates, many with names that include *ExxonMobil*, *Exxon*, *Esso*, *Mobil* or *XTO*. For convenience and simplicity, in this report the terms *ExxonMobil*, *Exxon*, *Esso*, *Mobil* and *XTO*, as well as terms like *Corporation*, *Company*, *our*, *we* and *its*, are sometimes used as abbreviated references to specific affiliates or groups of affiliates. The precise meaning depends on the context in question.

The energy and petrochemical industries are highly competitive. There is competition within the industries and also with other industries in supplying the energy, fuel and chemical needs of both industrial and individual consumers. The Corporation competes with other firms in the sale or purchase of needed goods and services in many national and international markets and employs all methods of competition which are lawful and appropriate for such purposes.

Operating data and industry segment information for the Corporation are contained in the Financial Section of this report under the following: "Quarterly Information", "Note 18: Disclosures about Segments and Related Information" and "Operating Information". Information on oil and gas reserves is contained in the "Oil and Gas Reserves" part of the "Supplemental Information on Oil and Gas Exploration and Production Activities" portion of the Financial Section of this report.

ExxonMobil has a long-standing commitment to the development of proprietary technology. We have a wide array of research programs designed to meet the needs identified in each of our business segments. ExxonMobil held over 13 thousand active patents worldwide at the end of 2019. For technology licensed to third parties, revenues totaled approximately \$79 million in 2019. Although technology is an important contributor to the overall operations and results of our Company, the profitability of each business segment is not dependent on any individual patent, trade secret, trademark, license, franchise or concession.

The number of regular employees was 74.9 thousand, 71.0 thousand, and 69.6 thousand at years ended 2019, 2018, and 2017, respectively. Regular employees are defined as active executive, management, professional, technical and wage employees who work full time or part time for the Corporation and are covered by the Corporation's benefit plans and programs.

Throughout ExxonMobil's businesses, new and ongoing measures are taken to prevent and minimize the impact of our operations on air, water and ground. These include a significant investment in refining infrastructure and technology to manufacture clean fuels, as well as projects to monitor and reduce nitrogen oxide, sulfur oxide and greenhouse gas emissions, and expenditures for asset retirement obligations. Using definitions and guidelines established by the American Petroleum Institute, ExxonMobil's 2019 worldwide environmental expenditures for all such preventative and remediation steps, including ExxonMobil's share of equity company expenditures, were \$5.2 billion, of which \$4.0 billion were included in expenses with the remainder in capital expenditures. The total cost for such activities is expected to increase to approximately \$5.9 billion in 2020 and 2021. Capital expenditures are expected to account for approximately 35 percent of the total.

Information concerning the source and availability of raw materials used in the Corporation's business, the extent of seasonality in the business, the possibility of renegotiation of profits or termination of contracts at the election of governments and risks attendant to foreign operations may be found in "Item 1A. Risk Factors" and "Item 2. Properties" in this report.

ExxonMobil maintains a website at exxonmobil.com. Our annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and any amendments to those reports filed or furnished pursuant to Section 13(a) of the Securities Exchange Act of 1934 are made available through our website as soon as reasonably practical after we electronically file or furnish the reports to the Securities and Exchange Commission (SEC). Also available on the Corporation's website are the Company's Corporate Governance Guidelines, Code of Ethics and Business Conduct, and additional policies as well as the charters of the audit, compensation, nominating, and other committees of the Board of Directors. Information on our website is not incorporated into this report.

The SEC maintains an internet site (http://www.sec.gov) that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC.

ITEM 1A. RISK FACTORS

ExxonMobil's financial and operating results are subject to a variety of risks inherent in the global oil, gas, and petrochemical businesses. Many of these risk factors are not within the Company's control and could adversely affect our business, our financial and operating results, or our financial condition. These risk factors include:

Supply and Demand

The oil, gas, and petrochemical businesses are fundamentally commodity businesses. This means ExxonMobil's operations and earnings may be significantly affected by changes in oil, gas, and petrochemical prices and by changes in margins on refined products. Oil, gas, petrochemical, and product prices and margins in turn depend on local, regional, and global events or conditions that affect supply and demand for the relevant commodity. Any material decline in oil or natural gas prices could have a material adverse effect on certain of the Company's operations, especially in the Upstream segment, financial condition, and proved reserves. On the other hand, a material increase in oil or natural gas prices could have a material adverse and Chemical segments.

Economic conditions. The demand for energy and petrochemicals is generally linked closely with broad-based economic activities and levels of prosperity. The occurrence of recessions or other periods of low or negative economic growth will typically have a direct adverse impact on our results. Other factors that affect general economic conditions in the world or in a major region, such as changes in population growth rates, periods of civil unrest, government austerity programs, trade tariffs, security or public health concerns, or currency exchange rate fluctuations, can also impact the demand for energy and petrochemicals. Sovereign debt downgrades, defaults, inability to access debt markets due to credit or legal constraints, liquidity crises, the breakup or restructuring of fiscal, monetary, or political systems such as the European Union, and other events or conditions that impair the functioning of financial markets and institutions also pose risks to ExxonMobil, including risks to the safety of our financial assets and to the ability of our partners and customers to fulfill their commitments to ExxonMobil.

Other demand-related factors. Other factors that may affect the demand for oil, gas, and petrochemicals, and therefore impact our results, include technological improvements in energy efficiency; seasonal weather patterns; increased competitiveness of alternative energy sources; changes in technology that alter fuel choices, such as technological advances in energy storage that make wind and solar more competitive for power generation; changes in consumer preferences for our products, including consumer demand for alternative fueled or electric transportation; and broad-based changes in personal income levels.

Other supply-related factors. Commodity prices and margins also vary depending on a number of factors affecting supply. For example, increased supply from the development of new oil and gas supply sources and technologies to enhance recovery from existing sources tend to reduce commodity prices to the extent such supply increases are not offset by commensurate growth in demand. Similarly, increases in industry refining or petrochemical manufacturing capacity relative to demand tend to reduce margins on the affected products. World oil, gas, and petrochemical supply levels can also be affected by factors that reduce available supplies, such as adherence by countries to OPEC production quotas and other agreements among sovereigns, and the occurrence of wars, hostile actions, natural disasters, disruptions in competitors' operations, logistics constraints or unexpected unavailability of distribution channels that may disrupt supplies. Technological change can also alter the relative costs for competitors to find, produce, and refine oil and gas and to manufacture petrochemicals.

Other market factors. ExxonMobil's business results are also exposed to potential negative impacts due to changes in interest rates, inflation, currency exchange rates, and other local or regional market conditions.

Government and Political Factors

ExxonMobil's results can be adversely affected by political or regulatory developments affecting our operations.

Access limitations. A number of countries limit access to their oil and gas resources, or may place resources off-limits from development altogether. Restrictions on foreign investment in the oil and gas sector tend to increase in times of high commodity prices, when national governments may have less need of outside sources of private capital. Many countries also restrict the import or export of certain products based on point of origin.

Restrictions on doing business. ExxonMobil is subject to laws and sanctions imposed by the United States or by other jurisdictions where we do business that may prohibit ExxonMobil or certain of its affiliates from doing business in certain countries, or restricting the kind of business that may be conducted. Such restrictions may provide a competitive advantage to competitors who may not be subject to comparable restrictions.

Lack of legal certainty. Some countries in which we do business lack well-developed legal systems, or have not yet adopted, or may be unable to maintain, clear regulatory frameworks for oil and gas development. Lack of legal certainty exposes our operations to increased risk of adverse or unpredictable actions by government officials, and also makes it more difficult for us to enforce our contracts. In some cases these risks can be partially offset by agreements to arbitrate disputes in an international forum, but the adequacy of this remedy may still depend on the local legal system to enforce an award.

Regulatory and litigation risks. Even in countries with well-developed legal systems where ExxonMobil does business, we remain exposed to changes in law or interpretation of settled law (including changes that result from international treaties and accords) that could adversely affect our results, such as:

- increases in taxes, duties, or government royalty rates (including retroactive claims);
- price controls;
- changes in environmental regulations or other laws that increase our cost of compliance or reduce or delay available business opportunities (including changes in laws related to offshore drilling operations, water use, methane emissions, hydraulic fracturing or use of plastics);
- adoption of regulations mandating efficiency standards, the use of alternative fuels or uncompetitive fuel components;
- adoption of government payment transparency regulations that could require us to disclose competitively sensitive commercial information, or that could cause us to violate the non-disclosure laws of other countries; and
- government actions to cancel contracts, re-denominate the official currency, renounce or default on obligations, renegotiate terms unilaterally, or expropriate assets.

Legal remedies available to compensate us for expropriation or other takings may be inadequate.

We also may be adversely affected by the outcome of litigation, especially in countries such as the United States in which very large and unpredictable punitive damage awards may occur; by government enforcement proceedings alleging non-compliance with applicable laws or regulations; or by state and local government actors as well as private plaintiffs acting in parallel that attempt to use the legal system to promote public policy agendas, gain political notoriety, or obtain monetary awards from the Company.

Security concerns. Successful operation of particular facilities or projects may be disrupted by civil unrest, acts of sabotage or terrorism, cybersecurity attacks, and other local security concerns. Such concerns may require us to incur greater costs for security or to shut down operations for a period of time.

Climate change and greenhouse gas restrictions. Due to concern over the risks of climate change, a number of countries have adopted, or are considering the adoption of, regulatory frameworks to reduce greenhouse gas emissions. These include adoption of cap and trade regimes, carbon taxes, minimum renewable usage requirements, restrictive permitting, increased efficiency standards, and incentives or mandates for renewable energy. Such policies could make our products more expensive, less competitive, lengthen project implementation times, and reduce demand for hydrocarbons, as well as shift hydrocarbon demand toward relatively lower-carbon sources such as natural gas. Current and pending greenhouse gas regulations or policies may also increase our compliance costs, such as for monitoring or sequestering emissions.

Alternative energy. Many governments are providing tax advantages and other subsidies to support transitioning to alternative energy sources or are mandating the use of specific fuels or technologies. Governments and others are also promoting research into new technologies to reduce the cost and increase the scalability of alternative energy sources. We are conducting our own research both in-house and by working with more than 80 leading universities around the world, including the Massachusetts Institute of Technology, Princeton University, The University of Texas, and Stanford University. Our research projects focus on developing algae-based biofuels, carbon capture and storage, breakthrough energy efficiency processes, advanced energy-saving materials, and other technologies. For example, ExxonMobil is launching an innovative relationship with the U.S. Department of Energy's National Laboratory network to bring low-emission energy breakthroughs to commercial scale. Our future results may depend in part on the success of our research efforts and on our ability to adapt and apply the strengths of our current business model to providing the energy products of the future in a cost-competitive manner. See "Operational and Other Factors" below.

Operational and Other Factors

In addition to external economic and political factors, our future business results also depend on our ability to manage successfully those factors that are at least in part within our control. The extent to which we manage these factors will impact our performance relative to competition. For projects in which we are not the operator, we depend on the management effectiveness of one or more co-venturers whom we do not control.

Exploration and development program. Our ability to maintain and grow our oil and gas production depends on the success of our exploration and development efforts. Among other factors, we must continuously improve our ability to identify the most promising resource prospects and apply our project management expertise to bring discovered resources on line as scheduled and within budget.

Project and portfolio management. The long-term success of ExxonMobil's Upstream, Downstream, and Chemical businesses depends on complex, long-term, capital intensive projects. These projects in turn require a high degree of project management expertise to maximize efficiency. Specific factors that can affect the performance of major projects include our ability to: negotiate successfully with joint venturers, partners, governments, suppliers, customers, or others; model and optimize reservoir performance; develop markets for project outputs, whether through long-term contracts or the development of effective spot markets; manage changes in operating conditions and costs, including costs of third party equipment or services such as drilling rigs and shipping; prevent, to the extent possible, and respond effectively to unforeseen technical difficulties that could delay project startup or cause unscheduled project downtime; and influence the performance of project operators where ExxonMobil does not perform that role. In addition to the effective management of individual projects, ExxonMobil's success, including our ability to mitigate risk and provide attractive returns to shareholders, depends on our ability to successfully manage our overall portfolio, including diversification among types and locations of our projects and strategies to divest assets. We may not be able to divest assets at a price or on the timeline we contemplate in our strategies. Additionally, we may retain certain liabilities following a divestment and could be held liable for past use or for different liabilities than anticipated.

The term "project" as used in this report can refer to a variety of different activities and does not necessarily have the same meaning as in any government payment transparency reports.

Operational efficiency. An important component of ExxonMobil's competitive performance, especially given the commodity-based nature of many of our businesses, is our ability to operate efficiently, including our ability to manage expenses and improve production yields on an ongoing basis. This requires continuous management focus, including technology improvements, cost control, productivity enhancements, regular reappraisal of our asset portfolio, and the recruitment, development, and retention of high caliber employees.

Research and development and technological change. To maintain our competitive position, especially in light of the technological nature of our businesses and the need for continuous efficiency improvement, ExxonMobil's research and development organizations must be successful and able to adapt to a changing market and policy environment, including developing technologies to help reduce greenhouse gas emissions. To remain competitive we must also continuously adapt and capture the benefits of new and emerging technologies, including successfully applying advances in the ability to process very large amounts of data to our businesses.

Safety, business controls, and environmental risk management. Our results depend on management's ability to minimize the inherent risks of oil, gas, and petrochemical operations, to control effectively our business activities, and to minimize the potential for human error. We apply rigorous management systems and continuous focus on workplace safety and avoiding spills or other adverse environmental events. For example, we work to minimize spills through a combined program of effective operations integrity management, ongoing upgrades, key equipment replacements, and comprehensive inspection and surveillance. Similarly, we are implementing cost-effective new technologies and adopting new operating practices to reduce air emissions, not only in response to government requirements but also to address community priorities. We also maintain a disciplined framework of internal controls and apply a controls management system for monitoring compliance with this framework. Substantial liabilities and other adverse impacts could result if our management systems and controls do not function as intended.

Cybersecurity. ExxonMobil is regularly subject to attempted cybersecurity disruptions from a variety of threat actors including state-sponsored actors. ExxonMobil's defensive preparedness includes multi-layered technological capabilities for prevention and detection of cybersecurity disruptions; non-technological measures such as threat information sharing with governmental and industry groups; internal training and awareness campaigns including routine testing of employee awareness and an emphasis on resiliency including business response and recovery. If the measures we are taking to protect against cybersecurity disruptions prove to be insufficient, ExxonMobil as well as our customers, employees, or third parties could be adversely affected. Cybersecurity disruptions could cause physical harm to people or the environment; damage or destroy assets; compromise business systems; result in proprietary information being altered, lost, or stolen; result in employee, customer, or third-party information being compromised; or otherwise disrupt our business operations. We could incur significant costs to remedy the effects of a major cybersecurity disruption in addition to costs in connection with resulting regulatory actions, litigation or reputational harm.

Preparedness. Our operations may be disrupted by severe weather events, natural disasters, human error, and similar events. For example, hurricanes may damage our offshore production facilities or coastal refining and petrochemical plants in vulnerable areas. Our facilities are designed, constructed, and operated to withstand a variety of extreme climatic and other conditions, with safety factors built in to cover a number of engineering uncertainties, including those associated with wave, wind, and current intensity, marine ice flow patterns, permafrost stability, storm surge magnitude, temperature extremes, extreme rainfall events, and earthquakes. Our consideration of changing weather conditions and inclusion of safety factors in design covers the engineering uncertainties that climate change and other events may potentially introduce. Our ability to mitigate the adverse impacts of these events depends in part upon the effectiveness of our robust facility engineering as well as our rigorous disaster preparedness and response and business continuity planning.

Insurance limitations. The ability of the Corporation to insure against many of the risks it faces as described in this Item 1A is limited by the capacity of the applicable insurance markets, which may not be sufficient.

Competition. As noted in Item 1 above, the energy and petrochemical industries are highly competitive. We face competition not only from other private firms, but also from state-owned companies that are increasingly competing for opportunities outside of their home countries and as partners with other private firms. In some cases, these state-owned companies may pursue opportunities in furtherance of strategic objectives of their government owners, with less focus on financial returns than companies owned by private shareholders, such as ExxonMobil. Technology and expertise provided by industry service companies may also enhance the competitiveness of firms that may not have the internal resources and capabilities of ExxonMobil or reduce the need for resource-owning countries to partner with private-sector oil and gas companies in order to monetize national resources.

Reputation. Our reputation is an important corporate asset. An operating incident, significant cybersecurity disruption, change in consumer views concerning our products, or other adverse event such as those described in this Item 1A may have a negative impact on our reputation, which in turn could make it more difficult for us to compete successfully for new opportunities, obtain necessary regulatory approvals, obtain financing, or could reduce consumer demand for our branded products. ExxonMobil's reputation may also be harmed by events which negatively affect the image of our industry as a whole.

Projections, estimates, and descriptions of ExxonMobil's plans and objectives included or incorporated in Items 1, 1A, 2, 7 and 7A of this report are forward-looking statements. Actual future results, including project completion dates, production rates, capital expenditures, costs, and business plans could differ materially due to, among other things, the factors discussed above and elsewhere in this report.

ITEM 1B. UNRESOLVED STAFF COMMENTS

None.

ITEM 2. PROPERTIES

Information with regard to oil and gas producing activities follows:

1. Disclosure of Reserves

A. Summary of Oil and Gas Reserves at Year-End 2019

The table below summarizes the oil-equivalent proved reserves in each geographic area and by product type for consolidated subsidiaries and equity companies. Natural gas is converted to an oil-equivalent basis at six billion cubic feet per one million barrels. The Corporation has reported proved reserves on the basis of the average of the first-day-of-the-month price for each month during the last 12-month period. No major discovery or other favorable or adverse event has occurred since December 31, 2019, that would cause a significant change in the estimated proved reserves as of that date.

	Crude Oil	Natural Gas Liquids	Bitumen	Synthetic Oil	Natural Gas	Oil-Equivalent Total All Products
	(million bbls)	(million bbls)	(million bbls)	(million bbls)	(billion cubic ft)	(million bbls)
Proved Reserves	(((((*********	(
Developed						
Consolidated Subsidiaries						
United States	1,226	429	-	-	11,882	3,635
Canada/Other Americas (1)	185	10	3,528	415	613	4,240
Europe	20	3	-	-	502	107
Africa	384	35	-	-	377	482
Asia	2,217	92	-	-	3,508	2,894
Australia/Oceania	63	27	-	-	3,765	717
Total Consolidated	4,095	596	3,528	415	20,647	12,075
Equity Companies						
United States	195	5	-	-	143	224
Europe	13	-	-	-	505	97
Africa	-	-	-	-	-	-
Asia	499	228	-	-	9,859	2,370
Total Equity Company	707	233	-	-	10,507	2,691
Total Developed	4,802	829	3,528	415	31,154	14,766
Undeveloped						
Consolidated Subsidiaries						
United States	1,862	612	-	-	7,144	3,665
Canada/Other Americas (1)	372	9	330	-	853	853
Europe	19	10	-	-	119	49
Africa	63	5	-	-	-	68
Asia	1,118	39	-	-	925	1,311
Australia/Oceania	31	4	-	-	3,236	575
Total Consolidated	3,465	679	330	-	12,277	6,521
Equity Companies						
United States	56	4	-	-	70	71
Europe	1	-	-	-	76	14
Africa	6	-	-	-	908	157
Asia	398	85	-	-	2,595	916
Total Equity Company	461	89	-	-	3,649	1,158
Total Undeveloped	3,926	768	330	-	15,926	7,679
Total Proved Reserves	8,728	1,597	3,858	415	47,080	22,445

(1) Other Americas includes proved developed reserves of 18 million barrels of crude oil and 75 billion cubic feet of natural gas, as well as proved undeveloped reserves of 280 million barrels of crude oil and 292 billion cubic feet of natural gas.

In the preceding reserves information, consolidated subsidiary and equity company reserves are reported separately. However, the Corporation operates its business with the same view of equity company reserves as it has for reserves from consolidated subsidiaries.

The Corporation anticipates several projects will come online over the next few years providing additional production capacity. However, actual volumes will vary from year to year due to the timing of individual project start-ups; operational outages; reservoir performance; performance of enhanced oil recovery projects; regulatory changes; the impact of fiscal and commercial terms; asset sales; weather events; price effects on production sharing contracts; changes in the amount and timing of capital investments that may vary depending on the oil and gas price environment; and other factors described in Item 1A. Risk Factors.

The estimation of proved reserves, which is based on the requirement of reasonable certainty, is an ongoing process based on rigorous technical evaluations, commercial and market assessments and detailed analysis of well and reservoir information such as flow rates and reservoir pressures. Furthermore, the Corporation only records proved reserves for projects which have received significant funding commitments by management made toward the development of the reserves. Although the Corporation is reasonably certain that proved reserves will be produced, the timing and amount recovered can be affected by a number of factors including completion of development projects, reservoir performance, regulatory approvals, government policies, consumer preferences, and significant changes in long-term oil and natural gas price levels. In addition, proved reserves could be affected by an extended period of low prices which could reduce the level of the Corporation's capital spending and also impact our partners' capacity to fund their share of joint projects.

B. Technologies Used in Establishing Proved Reserves Additions in 2019

Additions to ExxonMobil's proved reserves in 2019 were based on estimates generated through the integration of available and appropriate geological, engineering and production data, utilizing well-established technologies that have been demonstrated in the field to yield repeatable and consistent results.

Data used in these integrated assessments included information obtained directly from the subsurface via wellbores, such as well logs, reservoir core samples, fluid samples, static and dynamic pressure information, production test data, and surveillance and performance information. The data utilized also included subsurface information obtained through indirect measurements including high-quality 3-D and 4-D seismic data, calibrated with available well control information. The tools used to interpret the data included proprietary seismic processing software, proprietary reservoir modeling and simulation software, and commercially available data analysis packages.

In some circumstances, where appropriate analog reservoirs were available, reservoir parameters from these analogs were used to increase the quality of and confidence in the reserves estimates.

C. Qualifications of Reserves Technical Oversight Group and Internal Controls over Proved Reserves

ExxonMobil has a dedicated Global Reserves and Resources group that provides technical oversight and is separate from the operating organization. Primary responsibilities of this group include oversight of the reserves estimation process for compliance with Securities and Exchange Commission (SEC) rules and regulations, review of annual changes in reserves estimates, and the reporting of ExxonMobil's proved reserves. This group also maintains the official company reserves estimates for ExxonMobil's proved reserves of crude oil, natural gas liquids, bitumen, synthetic oil, and natural gas. In addition, the group provides training to personnel involved in the reserves estimation and reporting process within ExxonMobil and its affiliates. The Manager of the Global Reserves and Resources group has more than 30 years of experience in reservoir engineering and reserves assessment, has a degree in Engineering and currently serves on the Oil and Gas Reserves Committee of the Society of Petroleum Engineers (SPE). The group is staffed with individuals that have an average of more than 15 years of technical experience in the petroleum industry, including expertise in the classification and categorization of reserves under the SEC guidelines. This group includes individuals who hold degrees in either Engineering or Geology.

The Global Reserves and Resources group maintains a central database containing the official company reserves estimates. Appropriate controls, including limitations on database access and update capabilities, are in place to ensure data integrity within this central database. An annual review of the system's controls is performed by internal audit. Key components of the reserves estimation process include technical evaluations, commercial and market assessments, analysis of well and field performance, and long-standing approval guidelines. No changes may be made to the reserves estimates in the central database, including additions of any new initial reserves estimates or subsequent revisions, unless these changes have been thoroughly reviewed and evaluated by duly authorized geoscience and engineering professionals within the operating organization. In addition, changes to reserves estimates that exceed certain thresholds require further review and approval by the appropriate level of management within the operating organization before the changes may be made in the central database. Endorsement by the Global Reserves and Resources group for all proved reserves changes is a mandatory component of this review process. After all changes are made, reviews are held with senior management for final endorsement.

2. Proved Undeveloped Reserves

At year-end 2019, approximately 7.7 billion oil-equivalent barrels (GOEB) of ExxonMobil's proved reserves were classified as proved undeveloped. This represents 34 percent of the 22.4 GOEB reported in proved reserves. This compares to the 7.9 GOEB of proved undeveloped reserves reported at the end of 2018. During the year, ExxonMobil conducted development activities that resulted in the transfer of approximately 0.9 GOEB from proved undeveloped to proved developed reserves by year end. The largest transfers were related to development activities in the United States, the United Arab Emirates, and Kazakhstan. During 2019, extensions and discoveries, primarily in the United States and Guyana, resulted in an addition of 1.5 GOEB of proved undeveloped reserves, along with an increase of 0.6 GOEB due to revisions primarily in Asia. Also, the Corporation reclassified approximately 1.4 GOEB of proved undeveloped reserves, which no longer met the SEC definition of proved reserves, primarily in the United States, which was offset by the extensions in the United States referenced above.

Overall, investments of \$18.3 billion were made by the Corporation during 2019 to progress the development of reported proved undeveloped reserves, including \$17.7 billion for oil and gas producing activities, along with additional investments for other non-oil and gas producing activities such as the construction of support infrastructure and other related facilities. These investments represented 78 percent of the \$23.5 billion in total reported Upstream capital and exploration expenditures.

One of ExxonMobil's requirements for reporting proved reserves is that management has made significant funding commitments toward the development of the reserves. ExxonMobil has a disciplined investment strategy and many major fields require long lead-time in order to be developed. Development projects typically take several years from the time of recording proved undeveloped reserves to the start of production and can exceed five years for large and complex projects. Proved undeveloped reserves in the United States, Canada, Australia, and Kazakhstan have remained undeveloped for five years or more primarily due to constraints on the capacity of infrastructure, as well as the time required to complete development for very large projects. The Corporation is reasonably certain that these proved reserves will be produced; however, the timing and amount recovered can be affected by a number of factors including completion of development projects, reservoir performance, regulatory approvals, government policies, consumer preferences, the pace of coventurer/government funding, changes in the amount and timing of capital investments, and significant changes in long-term oil and natural gas price levels. Of the proved undeveloped reserves are related to drilling activities in the offshore Hebron field and onshore Cold Lake operations. In Australia, proved undeveloped reserves are associated with future compression for the Gorgon Jansz LNG project. In Kazakhstan, the proved undeveloped reserves are related to the remainder of the Tengiz-tevroil joint venture development that includes a production license in the Tengiz - Korolev field complex. The Tengizchevroil joint venture is producing, and proved undeveloped reserves will continue to move to proved developed as approved development phases progress.

3. Oil and Gas Production, Production Prices and Production Costs

A. Oil and Gas Production

The table below summarizes production by final product sold and by geographic area for the last three years.

	2019	1	2018		2017	
			(thousands of bar	rrels daily)		
Crude oil and natural gas liquids production	Crude Oil	NGL	Crude Oil	NGL	Crude Oil	NGL
Consolidated Subsidiaries						
United States	461	131	395	101	361	96
Canada/Other Americas (1)	87	4	62	6	44	6
Europe	84	21	101	27	147	31
Africa	360	12	377	10	412	11
Asia	432	22	398	25	373	26
Australia/Oceania	30	15	31	16	35	19
Total Consolidated Subsidiaries	1,454	205	1,364	185	1,372	189
Equity Companies						
United States	52	2	54	1	55	2
Europe	3	-	4	-	4	-
Asia	232	62	226	62	235	64
Total Equity Companies	287	64	284	63	294	66
Total crude oil and natural gas liquids production	1,741	269	1,648	248	1,666	255
Bitumen production						
Consolidated Subsidiaries						
Canada/Other Americas	311		310		305	
Synthetic oil production						
Consolidated Subsidiaries						
Canada/Other Americas	65		60		57	
Total liquids production	2,386		2,266		2,283	
		(mil	llions of cubic feet d	laily)		
Natural gas production available for sale						
Consolidated Subsidiaries						
United States	2,756		2,550		2,910	
Canada/Other Americas (1)	258		227		218	
Europe	808		925		1,046	
Africa	7		13		5	
Asia	851		838		906	
Australia/Oceania	1,319		1,325		1,310	
Total Consolidated Subsidiaries	5,999		5,878		6,395	
Equity Companies						
United States	22		24		26	
Europe	649		728		902	
Asia	2,724		2,775		2,888	
Total Equity Companies	3,395		3,527		3,816	
Total natural gas production available for sale	9,394		9,405		10,211	
		(thousands	of oil-equivalent be	arrels dailv)		
Oil-equivalent production	3,952	(3,833		3,985	

(1) Other Americas includes crude oil production for 2019 and 2018 of two thousand barrels daily and natural gas production available for sale for 2019, 2018 and 2017 of 36 million, 28 million, and 24 million cubic feet daily, respectively.

B. Production Prices and Production Costs

The table below summarizes average production prices and average production costs by geographic area and by product type for the last three years.

	United States	Canada/ Other Americas	Europe	Africa	Asia	Australia/ Oceania	Total
During 2019				(dollars per unit)			
Consolidated Subsidiaries							
Average production prices			62.50	05.04	~	61.00	
Crude oil, per barrel	54.41	59.39	63.59	65.64	64.14	61.08	61.04
NGL, per barrel	18.94 1.54	16.59 1.44	30.56 4.50	41.41 1.49	24.64 2.07	30.55 6.26	22.85 3.05
Natural gas, per thousand cubic feet Bitumen, per barrel	1.34	36.25	4.50	-	2.07	0.20	36.25
Synthetic oil, per barrel	-	56.18	-	-	_	_	56.18
Average production costs, per oil-equivalent barrel - total	12.25	23.41	13.69	17.51	7.34	6.60	13.43
Average production costs, per barrel - bitumen	-	24.18	-	-	-	-	24.18
Average production costs, per barrel - synthetic oil	-	40.38	-	-	-	-	40.38
Equity Companies							
Average production prices							
Crude oil, per barrel	60.95	-	58.72	-	58.74	-	59.15
NGL, per barrel	15.63	-	-	-	36.28	-	35.76
Natural gas, per thousand cubic feet	1.75	-	5.01	-	5.24	-	5.17
Average production costs, per oil-equivalent barrel - total	28.17	-	14.04	-	2.03	-	5.16
Total							
Average production prices		50.00	60 · · ·	6 - 64	60.0 -	64.00	60 F S
Crude oil, per barrel	55.08	59.39	63.41	65.64	62.27	61.08	60.73
NGL, per barrel	18.90 1.54	16.59 1.44	30.56 4.73	41.41	33.23	30.55 6.26	25.89 3.82
Natural gas, per thousand cubic feet Bitumen, per barrel	1.54	36.25	4./3	1.49	4.49	0.20	36.25
Synthetic oil, per barrel	-	56.18	-	-	-	-	56.18
Average production costs, per oil-equivalent barrel - total	13.08	23.41	13.80	17.56	4.39	6.60	11.51
Average production costs, per barrel - bitumen	-	24.18	-	-	-	-	24.18
Average production costs, per barrel - synthetic oil	-	40.38	-	-	-	-	40.38
During 2018 Consolidated Subsidiaries							
Average production prices							
Crude oil, per barrel	59.84	64.53	69.80	70.84	69.86	66.89	66.91
NGL, per barrel	30.78	37.27	38.53	47.10	26.30	36.34	32.88
Natural gas, per thousand cubic feet	2.14	1.68	6.97	1.96	2.33	6.39	3.87
Bitumen, per barrel	-	28.66	-	-	-	-	28.66
Synthetic oil, per barrel	-	54.85	-	-	-	-	54.85
Average production costs, per oil-equivalent barrel - total	11.64	24.32	13.07	17.28	7.31	6.94	13.34
Average production costs, per barrel - bitumen	-	22.93	-	-	-	-	22.93
Average production costs, per barrel - synthetic oil	-	45.33	-	-	-	-	45.33
Equity Companies							
Average production prices	66.20		62.02		67.21		67.07
Crude oil, per barrel NGL, per barrel	66.30 27.16	-	63.92	-	67.31 45.10	-	67.07 44.64
Notice, per barrer Natural gas, per thousand cubic feet	27.10	-	5.03	-	6.31	-	6.01
Average production costs, per oil-equivalent barrel - total	24.71	-	16.30	-	1.49	-	4.96
Total							
Average production prices							
Crude oil, per barrel	60.61	64.53	69.57	70.84	68.92	66.89	66.93
NGL, per barrel	30.72	37.27	38.53	47.10	39.69	36.34	35.85
Natural gas, per thousand cubic feet	2.14	1.68	6.11	1.96	5.38	6.39	4.67
Bitumen, per barrel	-	28.66	-	-	-	-	28.66
Synthetic oil, per barrel	-	54.85	-	-	-		54.85
Average production costs, per oil-equivalent barrel - total	12.43	24.32	14.06	17.31	3.98	6.94	11.29
Average production costs, per barrel - bitumen	-	22.93	-	-	-	-	22.93
Average production costs, per barrel - synthetic oil	-	45.33	-	-	-	-	45.33
	10						

	United	Canada/ Other				Australia/	
	States	Americas	Europe	Africa	Asia	Oceania	Total
During 2017				(dollars per unit))		
Consolidated Subsidiaries							
Average production prices							
Crude oil, per barrel	46.71	52.42	52.02	54.70	53.26	53.61	51.88
NGL, per barrel	24.20	27.07	30.96	37.38	22.69	33.15	26.88
Natural gas, per thousand cubic feet	2.03	2.03	5.48	1.51	2.05	4.22	3.04
Bitumen, per barrel	-	29.70	-	-	-	-	29.70
Synthetic oil, per barrel	-	52.72	-	-	-	-	52.72
Average production costs, per oil-equivalent barrel - total	10.85	23.44	12.25	13.33	8.07	6.30	12.33
Average production costs, per barrel - bitumen	-	21.39	-	-	-	-	21.39
Average production costs, per barrel - synthetic oil	-	44.21	-	-	-	-	44.21
Equity Companies Average production prices							
Crude oil, per barrel	49.13	-	47.69	-	50.27	-	50.02
NGL, per barrel	21.78	-	-	-	38.23	-	37.81
Natural gas, per thousand cubic feet	2.42	-	4.81	-	4.15	-	4.30
Average production costs, per oil-equivalent barrel - total	23.38	-	7.45	-	1.18	-	3.51
Total							
Average production prices							
Crude oil, per barrel	47.03	52.42	51.91	54.70	52.12	53.61	51.56
NGL, per barrel	24.16	27.07	30.96	37.38	33.79	33.15	29.70
Natural gas, per thousand cubic feet	2.03	2.03	5.17	1.51	3.65	4.22	3.51
Bitumen, per barrel	-	29.70	-	-	-	-	29.70
Synthetic oil, per barrel	-	52.72	-	-	-	-	52.72
Average production costs, per oil-equivalent barrel - total	11.61	23.44	10.79	13.33	4.02	6.30	10.12
Average production costs, per barrel - bitumen	-	21.39	-	-	-	-	21.39
Average production costs, per barrel - synthetic oil	-	44.21	-	-	-	-	44.21

Average production prices have been calculated by using sales quantities from the Corporation's own production as the divisor. Average production costs have been computed by using net production quantities for the divisor. The volumes of crude oil and natural gas liquids (NGL) production used for this computation are shown in the oil and gas production table in section 3.A. The volumes of natural gas used in the calculation are the production volumes of natural gas available for sale and are also shown in section 3.A. The natural gas available for sale volumes are different from those shown in the reserves table in the "Oil and Gas Reserves" part of the "Supplemental Information on Oil and Gas Exploration and Production Activities" portion of the Financial Section of this report due to volumes consumed or flared. Natural gas is converted to an oil-equivalent basis at six million cubic feet per one thousand barrels.

4. Drilling and Other Exploratory and Development Activities

A. Number of Net Productive and Dry Wells Drilled

	2019	2018	2017
Net Productive Exploratory Wells Drilled			
Consolidated Subsidiaries			
United States	3	1	-
Canada/Other Americas	6	4	5
Europe	1	-	-
Africa	-	1	1
Asia	_	-	-
Australia/Oceania	1	1	-
Total Consolidated Subsidiaries	11	7	6
Equity Companies			
United States	-	-	-
Europe	-	-	-
Africa	-	-	-
Asia	-	-	-
Total Equity Companies	-	-	-
Total productive exploratory wells drilled	11	7	6
Net Dry Exploratory Wells Drilled			
Consolidated Subsidiaries			
United States	-	3	-
Canada/Other Americas	1	-	-
Europe	1	1	-
Africa	-	-	2
Asia	-	-	-
Australia/Oceania	1	2	-
Total Consolidated Subsidiaries	3	6	2
Equity Companies			
United States	-	-	-
Europe	-	-	-
Africa	-	-	-
Asia	-	-	1
Total Equity Companies	-	-	1
Total dry exploratory wells drilled	3	6	3
12			

	2019	2018	2017
Net Productive Development Wells Drilled			
Consolidated Subsidiaries			
United States	618	389	300
Canada/Other Americas	49	32	12
Europe	3	3	6
Africa	4	1	6
Asia	12	14	15
Australia/Oceania	-	-	1
Total Consolidated Subsidiaries	686	439	340
Equity Companies			
United States	199	168	154
Europe	-	3	1
Africa	-	-	-
Asia	9	6	3
Total Equity Companies	208	177	158
Total productive development wells drilled	894	616	498
Net Dry Development Wells Drilled			
Consolidated Subsidiaries			
United States	8	4	4
Canada/Other Americas	-	1	-
Europe	-	-	1
Africa	1	1	-
Asia	-	-	-
Australia/Oceania	-	-	-
Total Consolidated Subsidiaries	9	6	5
Equity Companies			
United States	-	-	-
Europe	-	-	-
Africa	-	-	-
Asia	-	-	-
Total Equity Companies	-	-	-
Total dry development wells drilled	9	6	5
Total number of net wells drilled	917	635	512
13			

B. Exploratory and Development Activities Regarding Oil and Gas Resources Extracted by Mining Technologies

Syncrude Operations. Syncrude is a joint venture established to recover shallow deposits of oil sands using open-pit mining methods to extract the crude bitumen, and then upgrade it to produce a high-quality, light (32 degrees API), sweet, synthetic crude oil. Imperial Oil Limited is the owner of a 25 percent interest in the joint venture. Exxon Mobil Corporation has a 69.6 percent interest in Imperial Oil Limited. In 2019, the company's share of net production of synthetic crude oil was about 65 thousand barrels per day and share of net acreage was about 63 thousand acres in the Athabasca oil sands deposit.

Kearl Operations. Kearl is a joint venture established to recover shallow deposits of oil sands using open-pit mining methods to extract the crude bitumen. Imperial Oil Limited holds a 70.96 percent interest in the joint venture and ExxonMobil Canada Properties holds the other 29.04 percent. Exxon Mobil Corporation has a 69.6 percent interest in Imperial Oil Limited and a 100 percent interest in ExxonMobil Canada Properties. Kearl is comprised of six oil sands leases covering about 49 thousand acres in the Athabasca oil sands deposit.

Kearl is located approximately 40 miles north of Fort McMurray, Alberta, Canada. Bitumen is extracted from oil sands and processed through bitumen extraction and froth treatment trains. The product, a blend of bitumen and diluent, is shipped to our refineries and to other third parties. Diluent is natural gas condensate or other light hydrocarbons added to the crude bitumen to facilitate transportation by pipeline and rail. During 2019, average net production at Kearl was about 197 thousand barrels per day.

5. Present Activities

A. Wells Drilling

		Year-End 2019		Year-End 2018	
		Gross	Net	Gross	Net
Wells Drilling					
Consolidated Subsidiaries					
United States		1,133	704	997	491
Canada/Other Americas		27	20	41	32
Europe		16	7	13	3
Africa		4	1	5	1
Asia		46	14	50	14
Australia/Oceania		14	4	4	2
Total Consolidated Subsidiaries		1,240	750	1,110	543
Equity Companies					
United States		3	1	7	1
Europe		-	-	1	1
Africa		6	1	-	-
Asia		11	3	17	4
Total Equity Companies		20	5	25	6
Total gross and net wells drilling		1,260	755	1,135	549
	14				

B. Review of Principal Ongoing Activities

UNITED STATES

ExxonMobil's year-end 2019 acreage holdings totaled 11.5 million net acres, of which 0.6 million net acres were offshore. ExxonMobil was active in areas onshore and offshore in the lower 48 states and in Alaska. The Golden Pass liquefied natural gas export project was funded in 2019.

During the year, 815.6 net exploration and development wells were completed in the inland lower 48 states. Development activities focused on liquids-rich opportunities in the onshore U.S., primarily in the Permian Basin of West Texas and New Mexico and the Bakken oil play in North Dakota. In addition, gas development activities continued in the Marcellus Shale of Pennsylvania and West Virginia, the Utica Shale of Ohio and the Haynesville Shale of East Texas and Louisiana.

ExxonMobil's net acreage in the Gulf of Mexico at year-end 2019 was 0.5 million acres. A total of 0.9 net exploration and development wells were completed during the year.

Participation in Alaska production and development continued with a total of 11.6 net development wells completed.

CANADA / OTHER AMERICAS

Canada

Oil and Gas Operations: ExxonMobil's year-end 2019 acreage holdings totaled 6.8 million net acres, of which 3.9 million net acres were offshore. A total of 29.7 net development wells were completed during the year.

In Situ Bitumen Operations: ExxonMobil's year-end 2019 in situ bitumen acreage holdings totaled 0.6 million net onshore acres. A total of 14 net development wells at Cold Lake were completed during the year.

Argentina

ExxonMobil's net acreage totaled 2.9 million acres, of which 2.6 million net acres were offshore at year-end 2019. During the year, a total of 4.2 net exploration and development wells were completed. In 2019, ExxonMobil acquired approximately 2.6 million net acres in three offshore blocks located in the Malvinas Basin.

Guyana

ExxonMobil's net acreage totaled 4.6 million offshore acres at year-end 2019. During the year, 6.3 net exploration and development wells were completed. The Liza Phase 1 project started up in December 2019, and the Liza Phase 2 project was funded in 2019.

EUROPE

Germany

ExxonMobil's net acreage totaled 2.2 million onshore acres at year-end 2019. During the year, 0.7 net exploration and development wells were completed.

Netherlands

ExxonMobil's net interest in licenses totaled approximately 1.5 million acres, of which 1.1 million acres were onshore at year-end 2019. In 2018, the Dutch Cabinet notified Parliament of its intention to further reduce previously legislated Groningen gas extraction in response to seismic events over the last several years. Affiliates of the Corporation and their partners have actively been in discussions with the government on the associated implementation measures, which resulted in a signed Heads of Agreement in 2018 followed by the execution of additional implementation agreements. In 2019, the Dutch Cabinet informed Parliament of its intention to further reduce Groningen gas extraction and terminate production in 2022.

United Kingdom

ExxonMobil's net interest in licenses totaled approximately 0.3 million offshore acres at year-end 2019. During the year, a total of 0.4 net development wells were completed. Development activities continued on the Penguins Redevelopment project.

AFRICA

Angola

ExxonMobil's net acreage totaled 0.2 million offshore acres at year-end 2019. During the year, a total of 1.3 net development wells were completed. On Block 32, the Kaombo Split Hub Sul floating production storage and offloading (FPSO) vessel started up in April 2019, and the Norte FPSO started up in 2018.

Chad

ExxonMobil's net acreage holdings totaled 46 thousand onshore acres at year-end 2019.

Equatorial Guinea

ExxonMobil's net acreage totaled 0.5 million offshore acres at year-end 2019. During the year, a total of 2.4 net development wells were completed.

Mozambique

ExxonMobil's net acreage totaled approximately 1.8 million offshore acres at year-end 2019. In 2019, ExxonMobil relinquished approximately 0.8 million net acres as the Company reduced its working interest in Area 5 offshore blocks, Angoche A5-B, Zambezi Z5-C, and Zambezi Z5-D. Development activities continued on the Coral South Floating LNG project during the year.

Nigeria

ExxonMobil's net acreage totaled 0.9 million offshore acres at year-end 2019. During the year, a total of 1.3 net exploration and development wells were completed.

ASIA

Azerbaijan

ExxonMobil's net acreage totaled 7 thousand offshore acres at year-end 2019. During the year, a total of 0.7 net development wells were completed.

Indonesia

ExxonMobil's net acreage totaled 0.1 million onshore acres at year-end 2019. The Kedung Keris project started up in November 2019.

Iraq

ExxonMobil's net acreage totaled 0.1 million onshore acres at year-end 2019. During the year, a total of 2.6 net development wells were completed at the West Qurna Phase I oil field. Oil field rehabilitation activities continued during 2019 and across the life of this project will include drilling of new wells, working over of existing wells, and optimization and debottlenecking of existing facilities. In the Kurdistan Region of Iraq, ExxonMobil has continued exploration activities.

Kazakhstan

ExxonMobil's net acreage totaled 0.3 million acres, of which 0.2 million net acres were offshore at year-end 2019. During the year, a total of 9.5 net development wells were completed. Development activities continued on the Tengiz Expansion project.

Malaysia

ExxonMobil's interests in production sharing contracts covered 2.4 million net acres offshore at year-end 2019.

Qatar

Through our joint ventures with Qatar Petroleum, ExxonMobil's net acreage totaled 65 thousand acres offshore at year-end 2019. ExxonMobil participated in 62.2 million tonnes per year gross liquefied natural gas capacity and 2.0 billion cubic feet per day of flowing gas capacity at year-end. Development activities continued on the Barzan project during the year.

Russia

ExxonMobil's net acreage holdings in Sakhalin totaled 85 thousand offshore acres at year-end 2019. During the year, a total of 2.1 net development wells were completed.

Thailand

ExxonMobil's net onshore acreage in Thailand concessions totaled 21 thousand acres at year-end 2019.

United Arab Emirates

ExxonMobil's net acreage in the Abu Dhabi offshore Upper Zakum oil concession was 81 thousand acres at year-end 2019. During the year, a total of 5.3 net development wells were completed. Commissioning activities continued on the Upper Zakum 750 project, while development activities progressed on the Upper Zakum 1 MBD project.

AUSTRALIA / OCEANIA

Australia

ExxonMobil's net acreage totaled 1.8 million acres offshore and 10 thousand acres onshore at year-end 2019. During the year, a total of 1.0 net exploration well was completed in the Bass Strait. Development activities continued on the West Barracouta project during the year.

The co-venturer-operated Gorgon Jansz liquefied natural gas (LNG) development consists of a subsea infrastructure for offshore production and transportation of the gas, a 15.6 million tonnes per year LNG facility and a 280 million cubic feet per day domestic gas plant located on Barrow Island, Western Australia. Development activities continued on the Gorgon Stage 2 project during the year.

Papua New Guinea

ExxonMobil's net acreage totaled 6.9 million acres, of which 3.3 million net acres were offshore at year-end 2019. During the year, a total of 1.2 net exploration and development wells were completed. In 2019, ExxonMobil relinquished approximately 3 million net acres as the Company reduced its working interest, primarily in deepwater offshore licenses. The Papua New Guinea (PNG) liquefied natural gas integrated development includes gas production and processing facilities in the southern PNG Highlands, onshore and offshore pipelines, and a 6.9 million tonnes per year liquefied natural gas facility near Port Moresby.

WORLDWIDE EXPLORATION

At year-end 2019, exploration activities were under way in several areas in which ExxonMobil has no established production operations and thus are not included above. A total of 41.5 million net acres were held at year-end 2019 and 2.7 net exploration wells were completed during the year in these countries.

6. Delivery Commitments

ExxonMobil sells crude oil and natural gas from its producing operations under a variety of contractual obligations, some of which may specify the delivery of a fixed and determinable quantity for periods longer than one year. ExxonMobil also enters into natural gas sales contracts where the source of the natural gas used to fulfill the contract can be a combination of our own production and the spot market. Worldwide, we are contractually committed to deliver approximately 44 million barrels of oil and 2,500 billion cubic feet of natural gas for the period from 2020 through 2022. We expect to fulfill the majority of these delivery commitments with production from our proved developed reserves. Any remaining commitments will be fulfilled with production from our proved undeveloped reserves and purchases on the open market as necessary.

7. Oil and Gas Properties, Wells, Operations and Acreage

A. Gross and Net Productive Wells

		Year-End 2019				Year-End 2	2018	
	Oil		Gas	Gas		Oil		
	Gross	Net	Gross	Net	Gross	Net	Gross	Net
Gross and Net Productive Wells								
Consolidated Subsidiaries								
United States	20,559	8,502	21,893	13,182	20,996	8,460	25,061	14,396
Canada/Other Americas	4,905	4,724	3,441	1,347	5,037	4,781	4,262	1,650
Europe	741	207	517	236	981	256	648	261
Africa	1,191	456	13	5	1,221	472	12	5
Asia	943	301	133	79	891	286	133	79
Australia/Oceania	582	120	87	36	577	123	81	33
Total Consolidated Subsidiaries	28,921	14,310	26,084	14,885	29,703	14,378	30,197	16,424
Equity Companies								
United States	12,947	5,328	4,500	577	13,126	5,398	4,503	577
Europe	57	20	561	175	57	20	602	187
Asia	194	49	126	30	164	41	126	30
Total Equity Companies	13,198	5,397	5,187	782	13,347	5,459	5,231	794
Total gross and net productive wells	42,119	19,707	31,271	15,667	43,050	19,837	35,428	17,218

There were 27,532 gross and 23,857 net operated wells at year-end 2019 and 28,847 gross and 24,696 net operated wells at year-end 2018. The number of wells with multiple completions was 1,023 gross in 2019 and 947 gross in 2018.

B. Gross and Net Developed Acreage

	Year-En	Year-End 2019		d 2018
	Gross	Net	Gross	Net
		(thousands	of acres)	
Gross and Net Developed Acreage				
Consolidated Subsidiaries				
United States	13,283	8,097	13,900	8,399
Canada/Other Americas (1)	3,020	2,100	3,596	2,325
Europe	2,229	1,182	2,937	1,315
Africa	2,409	832	2,492	866
Asia	1,938	561	1,939	563
Australia/Oceania	3,262	1,068	3,262	1,068
Total Consolidated Subsidiaries	26,141	13,840	28,126	14,536
Equity Companies				
United States	926	207	929	208
Europe	4,069	1,280	4,110	1,287
Asia	628	155	628	155
Total Equity Companies	5,623	1,642	5,667	1,650
Total gross and net developed acreage	31,764	15,482	33,793	16,186

(1) Includes developed acreage in Other Americas of 472 gross and 295 net thousands of acres for 2019 and 375 gross and 244 net thousands of acres for 2018.

Separate acreage data for oil and gas are not maintained because, in many instances, both are produced from the same acreage.

C. Gross and Net Undeveloped Acreage

	Year-En	Year-End 2019		d 2018
	Gross	Net	Gross	Net
		(thousands	s of acres)	
Gross and Net Undeveloped Acreage				
Consolidated Subsidiaries				
United States	7,123	3,146	7,421	3,427
Canada/Other Americas (1)	36,509	17,950	34,932	15,340
Europe	18,212	7,619	9,168	4,191
Africa	56,049	32,449	44,556	24,000
Asia	6,880	2,911	7,195	2,964
Australia/Oceania	14,773	7,689	15,337	10,756
Total Consolidated Subsidiaries	139,546	71,764	118,609	60,678
Equity Companies				
United States	189	73	203	76
Europe	366	105	100	25
Africa	596	149	596	149
Asia	73	5	73	5
Total Equity Companies	1,224	332	972	255
Total gross and net undeveloped acreage	140,770	72,096	119,581	60,933

(1) Includes undeveloped acreage in Other Americas of 25,327 gross and 12,065 net thousands of acres for 2019 and 23,872 gross and 9,595 net thousands of acres for 2018.

ExxonMobil's investment in developed and undeveloped acreage is comprised of numerous concessions, blocks and leases. The terms and conditions under which the Corporation maintains exploration and/or production rights to the acreage are property-specific, contractually defined and vary significantly from property to property. Work programs are designed to ensure that the exploration potential of any property is fully evaluated before expiration. In some instances, the Corporation may elect to relinquish acreage in advance of the contractual expiration date if the evaluation process is complete and there is not a business basis for extension. In cases where additional time may be required to fully evaluate acreage, the Corporation has generally been successful in obtaining extensions. The scheduled expiration of leases and concessions for undeveloped acreage over the next three years is not expected to have a material adverse impact on the Corporation.

D. Summary of Acreage Terms

UNITED STATES

Oil and gas exploration and production rights are acquired from mineral interest owners through a lease. Mineral interest owners include the Federal and State governments, as well as private mineral interest owners. Leases typically have an exploration period ranging from one to ten years, and a production period that normally remains in effect until production ceases. Under certain circumstances, a lease may be held beyond its exploration term even if production has not commenced. In some instances regarding private property, a "fee interest" is acquired where the underlying mineral interests are owned outright.

CANADA / OTHER AMERICAS

Canada

Exploration licenses or leases in onshore areas are acquired for varying periods of time with renewals or extensions possible. These licenses or leases entitle the holder to continue existing licenses or leases upon completing specified work. In general, these license and lease agreements are held as long as there is proven production capability on the licenses and leases. Exploration licenses in offshore eastern Canada and the Beaufort Sea are held by work commitments of various amounts and rentals. They are valid for a maximum term of nine years. Offshore production licenses are valid for 25 years, with rights of extension for continued production. Significant discovery licenses in the offshore, relating to currently undeveloped discoveries, do not have a definite term.

Argentina

The Federal Hydrocarbon Law was amended in 2014. Pursuant to the amended law, the production term for an onshore unconventional concession is 35 years, and 25 years for a conventional concession, with unlimited ten-year extensions possible, once a field has been developed. In 2019, the government granted three offshore exploration licenses, with terms of eight years, divided into two exploration periods of four years, with an optional extension of five years for each license. Three onshore exploration concessions were initially granted prior to the amendment and are governed under Provincial Law with expiration terms between 2020 and 2022.

Guyana

The Petroleum (Exploration and Production) Act authorizes the government of Guyana to grant petroleum prospecting and production licenses and to enter into petroleum agreements for the exploration and production of hydrocarbons. Petroleum agreements provide for an exploration period of up to 10 years and a production period of 20 years, with a 10 year extension.

EUROPE

Germany

Exploration concessions are granted for an initial maximum period of five years, with an unlimited number of extensions up to three years each. Extensions are subject to specific minimum work commitments. Production licenses are normally granted for 20 to 25 years with multiple possible extensions subject to production on the license.

Netherlands

Under the Mining Law, effective January 1, 2003, exploration and production licenses for both onshore and offshore areas are issued for a period as explicitly defined in the license. The term is based on the period of time necessary to perform the activities for which the license is issued. License conditions are stipulated in the license and are based on the Mining Law.

Production rights granted prior to January 1, 2003, remain subject to their existing terms, and differ slightly for onshore and offshore areas. Onshore production licenses issued prior to 1988 were indefinite; from 1988 they were issued for a period as explicitly defined in the license, ranging from 35 to 45 years. Offshore production licenses issued before 1976 were issued for a fixed period of 40 years; from 1976 they were again issued for a period as explicitly defined in the license, ranging from 15 to 40 years.

United Kingdom

Acreage terms are fixed by the government and are periodically changed. For example, many of the early licenses issued under the first four licensing rounds provided an initial term of six years with relinquishment of at least one-half of the original area at the end of the initial term, subject to extension for a further 40 years. At the end of any such 40-year term, licenses may continue in producing areas until cessation of production; or licenses may continue in development areas for periods agreed on a case-by-case basis until they become producing areas; or licenses terminate in all other areas. The majority of traditional licenses currently issued have an initial exploration term of four years with a second term extension of four years, and a final production term of 18 years, with a mandatory relinquishment of 50 percent of the acreage after the initial term and of all acreage that is not covered by a development plan at the end of the second term.

Terms for exploration acreage in technically challenged areas are governed by frontier production licenses, generally covering a larger initial area than traditional licenses, with an initial exploration term of six or nine years with a second term extension of six years, and a final production term of 18 years, with relinquishment of 75 percent of the original area after three years and 50 percent of the remaining acreage after the next three years. Innovate licenses issued replace traditional and frontier licenses and offer greater flexibility with respect to periods and work program commitments.

AFRICA

Angola

Exploration and production activities are governed by production sharing agreements with an initial exploration term of four years and an optional second phase of two to three years. The production period is 25 years, and agreements generally provide for a negotiated extension.

Chad

Exploration permits are issued for a period of five years, and are renewable for one or two further five-year periods. The terms and conditions of the permits, including relinquishment obligations, are specified in a negotiated convention. The production term is 30 years and in 2017 was extended by 20 years to 2050.

Equatorial Guinea

Exploration, development and production activities are governed by production sharing contracts (PSCs) negotiated with the State Ministry of Mines and Hydrocarbons. A new PSC was ratified in 2018; the initial exploration period is five years for oil and gas, with multi-year extensions available at the discretion of the Ministry and limited relinquishments in the absence of commercial discoveries. The production period for crude oil ranges from 25 to 30 years, while the production period for natural gas ranges from 25 to 50 years.

Mozambique

Exploration and production activities are generally governed by concession contracts with the Government of the Republic of Mozambique, represented by the Ministry of Mineral Resources and Energy. An interest in Area 4 offshore Mozambique was acquired in 2017. Terms for Area 4 are governed by the Exploration and Production Concession Contract (EPCC) for Area 4 Offshore of the Rovuma Block. The EPCC expires 30 years after an approved plan of development becomes effective for a given discovery area.

In 2018 an interest was acquired in offshore blocks, A5-B, Z5-C and Z5-D. Terms for the three blocks are governed by their respective EPCCs, which have an initial exploration phase that expires in 2022 with the possibility of two additional exploration phases expiring in 2024 and 2025. The EPCCs provide a development and production period that expires 30 years after the approval of a plan of development.

Nigeria

Exploration and production activities in the deepwater offshore areas are typically governed by production sharing contracts (PSCs) with the national oil company, the Nigerian National Petroleum Corporation (NNPC). NNPC typically holds the underlying Oil Prospecting License (OPL) and any resulting Oil Mining Lease (OML). The terms of the PSCs are generally 30 years, including a ten-year exploration period (an initial exploration phase that can be divided into multiple optional periods) covered by an OPL. Upon commercial discovery, an OPL may be converted to an OML. Partial relinquishment is required under the PSC at the end of the ten-year exploration period, and OMLs have a 20-year production period that may be extended.

Some exploration activities are carried out in deepwater by joint ventures with local companies holding interests in an OPL. OPLs in deepwater offshore areas are valid for 10 years, while in all other areas the licenses are for five years. Demonstrating a commercial discovery is the basis for conversion of an OPL to an OML.

OMLs granted prior to the 1969 Petroleum Act (i.e., under the Mineral Oils Act 1914, repealed by the 1969 Petroleum Act) were for 30 years onshore and 40 years in offshore areas and have been renewed, effective December 1, 2008, for a further period of 20 years, with a further renewal option of 20 years. Operations under these pre-1969 OMLs are conducted under a joint venture agreement with NNPC rather than a PSC. Commercial terms applicable to the existing joint venture oil production are defined by the Petroleum Profits Tax Act.

OMLs granted under the 1969 Petroleum Act, which include all deepwater OMLs, have a maximum term of 20 years without distinction for onshore or offshore location and are renewable, upon 12 months' written notice, for another period of 20 years. OMLs not held by NNPC are also subject to a mandatory 50-percent relinquishment after the first 10 years of their duration.

ASIA

Azerbaijan

The production sharing agreement (PSA) for the development of the Azeri-Chirag-Gunashli field was established for an initial period of 30 years starting from the PSA execution date in 1994. The PSA was amended in September 2017 to extend the term by 25 years to 2049.

Other exploration and production activities are governed by PSAs negotiated with the national oil company of Azerbaijan. The exploration period typically consists of three or four years with the possibility of a one to three-year extension. The production period, which includes development, is for 25 years or 35 years with the possibility of one or two five-year extensions.

Indonesia

Exploration and production activities in Indonesia are generally governed by cooperation contracts, usually in the form of a production sharing contract (PSC), negotiated with BPMIGAS, a government agency established in 2002 to manage upstream oil and gas activities. In 2012, Indonesia's Constitutional Court ruled certain articles of law relating to BPMIGAS to be unconstitutional, but stated that all existing PSCs signed with BPMIGAS should remain in force until their expiry, and the functions and duties previously performed by BPMIGAS are to be carried out by the relevant Ministry of the Government of Indonesia until the promulgation of a new oil and gas law. By presidential decree, SKKMIGAS became the interim successor to BPMIGAS. The current PSCs have an exploration period of six years, which can be extended up to 10 years, and an exploitation period of 20 years. PSCs generally require the contractor to relinquish 10 to 20 percent of the contract area after three years and generally allow the contractor to retain no more than 50 to 80 percent of the original contract area after six years, depending on the acreage and terms.

Iraq

Development and production activities in the state-owned oil and gas fields are governed by contracts with regional oil companies of the Iraqi Ministry of Oil. An ExxonMobil affiliate entered into a contract with Basra Oil Company of the Iraqi Ministry of Oil for the rights to participate in the development and production activities of the West Qurna Phase I oil and gas field effective March 1, 2010. The term of the contract is 20 years with the right to extend for five years. The contract provides for cost recovery plus per-barrel fees for incremental production above specified levels.

Exploration and production activities in the Kurdistan Region of Iraq are governed by production sharing contracts (PSCs) negotiated with the regional government of Kurdistan in 2011. The exploration term is for five years, with extensions available as provided by the PSCs and at the discretion of the regional government of Kurdistan. Current PSCs remain in effect by agreement of the regional government to allow additional time for exploration or evaluation of commerciality. The production period is 20 years with the right to extend for five years.

Kazakhstan

Onshore exploration and production activities are governed by the production license, exploration license and joint venture agreements negotiated with the Republic of Kazakhstan. Existing production operations have a 40-year production period that commenced in 1993.

Offshore exploration and production activities are governed by a production sharing agreement negotiated with the Republic of Kazakhstan. The exploration period is six years followed by separate appraisal periods for each discovery. The production period for each discovery, which includes development, is 20 years from the date of declaration of commerciality with the possibility of two ten-year extensions.

Malaysia

Production activities are governed by production sharing contracts (PSCs) negotiated with the national oil company. The PSCs have exploration and production terms ranging up to 38 years. All extensions are subject to the national oil company's prior written approval. The production periods range from 15 to 29 years, depending on the provisions of the respective contract.

Qatar

The State of Qatar grants gas production development project rights to develop and supply gas from the offshore North Field to permit the economic development and production of gas reserves sufficient to satisfy the gas and LNG sales obligations of these projects.

Russia

Terms for ExxonMobil's Sakhalin acreage are fixed by the current production sharing agreement between the Russian government and the Sakhalin-1 consortium, of which ExxonMobil is the operator.

Thailand

The Petroleum Act of 1971 allows production under ExxonMobil's concessions for 30 years with a ten-year extension at terms generally prevalent at the time. The term of one of the two concessions expires in 2021.

United Arab Emirates

An interest in the development and production activities of the offshore Upper Zakum field was acquired in 2006. In 2017 the governing agreements were extended to 2051.

AUSTRALIA / OCEANIA

Australia

Exploration and production activities conducted offshore in Commonwealth waters are governed by Federal legislation. Exploration permits are granted for an initial term of six years with two possible five-year renewal periods. Retention leases may be granted for resources that are not commercially viable at the time of application, but are expected to become commercially viable within 15 years. These are granted for periods of five years and renewals may be requested. Prior to July 1998, production licenses were granted initially for 21 years, with a further renewal of 21 years and thereafter "indefinitely", i.e., for the life of the field. Effective from July 1998, new production licenses are granted "indefinitely". In each case, a production license may be terminated if no production operations have been carried on for five years.

Papua New Guinea

Exploration and production activities are governed by the Oil and Gas Act. Petroleum prospecting licenses are granted for an initial term of six years with a five-year extension possible (an additional extension of three years is possible in certain circumstances). Generally, a 50-percent relinquishment of the license area is required at the end of the initial six-year term, if extended. Petroleum development licenses are granted for an initial 25-year period. An extension of up to 20 years may be granted at the Minister's discretion. Petroleum retention licenses may be granted for gas resources that are not commercially viable at the time of application, but may become commercially viable within the maximum possible retention time of 15 years. Petroleum retention licenses are granted for five-year terms, and may be extended, at the Minister's discretion, twice for the maximum retention time of 15 years. Extensions of petroleum retention licenses may be for periods of less than one year, renewable annually, if the Minister considers at the time of extension that the resources could become commercially viable in less than five years.

Information with regard to the Downstream segment follows:

ExxonMobil's Downstream segment manufactures, trades and sells petroleum products. The refining and supply operations encompass a global network of manufacturing plants, transportation systems, and distribution centers that provide a range of fuels, lubricants and other products and feedstocks to our customers around the world.

Refining Capacity A	At Year-End 2019	(1)

	fichning Supretty fit fear End 2015 (1)		
		ExxonMobil	ExxonMobil
		Share KBD (2)	Interest %
Jnited States			
Joliet	Illinois	236	100
Baton Rouge	Louisiana	518	100
Billings	Montana	60	100
Baytown	Texas	561	100
Beaumont	Texas	369	100
Total United States		1,744	
Canada			
Strathcona	Alberta	191	69.6
Nanticoke	Ontario	113	69.6
Sarnia	Ontario	119	69.6
Total Canada		423	
Europe			
Antwerp	Belgium	307	100
Fos-sur-Mer	France	133	82.9
Gravenchon	France	240	82.9
Karlsruhe	Germany	78	25
Trecate	Italy	132	75.3
Rotterdam	Netherlands	192	100
Slagen	Norway	116	100
Fawley	United Kingdom	262	100
Total Europe		1,460	
Asia Pacific			
Altona	Australia	86	100
Fujian	China	67	25
Jurong/PAC	Singapore	592	100
Sriracha	Thailand	167	66
Total Asia Pacific		912	
Middle East			
Yanbu	Saudi Arabia	200	50
Fotal Worldwide		4,739	

Capacity data is based on 100 percent of rated refinery process unit stream-day capacities under normal operating conditions, less the impact of (1) shutdowns for regular repair and maintenance activities, averaged over an extended period of time. The listing excludes refining capacity for a minor interest held through equity securities in New Zealand, and the Laffan Refinery in Qatar for which results are reported in the Upstream segment.

Thousands of barrels per day (KBD). ExxonMobil share reflects 100 percent of atmospheric distillation capacity in operations of ExxonMobil and (2) majority-owned subsidiaries. For companies owned 50 percent or less, ExxonMobil share is the greater of ExxonMobil's interest or that portion of distillation capacity normally available to ExxonMobil.

The marketing operations sell products and services throughout the world through our *Exxon*, *Esso* and *Mobil* brands.

Retail Sites At Year-End 2019

United States	
Owned/leased	-
Distributors/resellers	10,830
Total United States	10,830
Canada	
Owned/leased	-
Distributors/resellers	2,175
Total Canada	2,175
Europe	
Owned/leased	197
Distributors/resellers	5,743
Total Europe	5,940
Asia Pacific	
Owned/leased	567
Distributors/resellers	1,134
Total Asia Pacific	1,701
Latin America	
Owned/leased	-
Distributors/resellers	348
Total Latin America	348
Middle East/Africa	
Owned/leased	225
Distributors/resellers	190
Total Middle East/Africa	415
Worldwide	
Owned/leased	989
Distributors/resellers	20,420
Total Worldwide	21,409
25	

Information with regard to the Chemical segment follows:

ExxonMobil's Chemical segment manufactures and sells petrochemicals. The Chemical business supplies olefins, polyolefins, aromatics, and a wide variety of other petrochemicals.

Chemical Complex Capacity At Year-End 2019 (1)

		Ethylene	Polyethylene	Polypropylene	Paraxylene	ExxonMobil Interest %
		Eurytene	5 5	ric tons per year)	Turuxyiciic	interest /0
North America			(minions of mee	rie tons per yeary		
Baton Rouge	Louisiana	1.1	1.3	0.4	-	100
Baytown	Texas	3.8	-	0.7	0.6	100
Beaumont	Texas	0.9	1.7	-	0.3	100
Mont Belvieu	Texas	-	2.3	-	-	100
Sarnia	Ontario	0.3	0.5	_	-	69.6
Total North America		6.1	5.8	1.1	0.9	
Europe						
Antwerp	Belgium	-	0.4	-	-	100
Fife	United Kingdom	0.4	-	-	-	50
Gravenchon	France	0.4	0.4	0.3	-	100
Meerhout	Belgium	-	0.5	-	-	100
Rotterdam	Netherlands	-	-	-	0.7	100
Total Europe	-	0.8	1.3	0.3	0.7	_
Middle East						
Al Jubail	Saudi Arabia	0.6	0.7	-	-	50
Yanbu	Saudi Arabia	1.0	0.7	0.2	-	50
Total Middle East	-	1.6	1.4	0.2	-	_
Asia Pacific						
Fujian	China	0.3	0.2	0.2	0.2	25
Singapore	Singapore	1.9	1.9	0.9	1.8	100
Sriracha	Thailand	-	-	-	0.5	66
Total Asia Pacific	-	2.2	2.1	1.1	2.5	_
Total Worldwide	-	10.7	10.6	2.7	4.1	_

(1) Capacity reflects 100 percent for operations of ExxonMobil and majority-owned subsidiaries. For companies owned 50 percent or less, capacity is ExxonMobil's interest.

ITEM 3. LEGAL PROCEEDINGS

Regarding a matter last reported in the Corporation's Form 10-Q for the third quarter of 2019, on December 31, 2019, the United States Federal District Court, Northern District of Texas (the Federal Court), vacated the civil penalty assessed by the United States Department of Treasury, Office of Foreign Assets Control (OFAC) against Exxon Mobil Corporation, ExxonMobil Development Company and ExxonMobil Oil Corporation on July 20, 2017, for allegedly violating the Ukraine-Related Sanctions Regulations, 31 C.F.R. part 589. The civil penalty vacated by the Federal Court was in the amount of \$2,000,000. OFAC is currently determining whether to appeal the Federal Court's order to the 5th Circuit Court of Appeals.

Refer to the relevant portions of "Note 16: Litigation and Other Contingencies" of the Financial Section of this report for additional information on legal proceedings.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

Information about our Executive Officers

(positions and ages as of February 26, 2020)

	Chairman of the Board	
Held current title since:	January 1, 2017	Age: 55
	President of Exxon Mobil Corporation June 1, 2014 – December 3: 2016, and Chairman of the Board and Chief Executive Officer on	
Neil A. Chapman	Senior Vice President	
Held current title since:	January 1, 2018	Age: 57
-	ExxonMobil Chemical Company and Vice President of Exxon Mob of Exxon Mobil Corporation on January 1, 2018, a position he cont	
Andrew P. Swiger	Senior Vice President	
Held current title since:	April 1, 2009	Age: 63
Mr. Andrew P. Swiger became Senior V	ice President of Exxon Mobil Corporation on April 1, 2009, a posit	
Jack P. Williams, Jr.	Senior Vice President	
Held current title since:	June 1, 2014	Age: 56
Mr. Jack P. Williams, Jr. became Senior	Vice President of Exxon Mobil Corporation on June 1, 2014, a posi	ition he continues to hold as of this filing date.
	Vice President of Exxon Mobil Corporation on June 1, 2014, a posi President, ExxonMobil Upstream Integrated Solutions	<u> </u>
Linda D. DuCharme Held current title since:	President, ExxonMobil Upstream Integrated Solutions April 1, 2019	s Company Age: 55
Linda D. DuCharme Held current title since: Ms. Linda D. DuCharme was Vice Presi 2015. She was Vice President, Americ President of ExxonMobil Global Servi	President, ExxonMobil Upstream Integrated Solutions	Age: 55 Age: 55 Iarketing Company February 1, 2011 – June 30, npany July 1, 2015 – July 31, 2016. She was
Linda D. DuCharme Held current title since: Ms. Linda D. DuCharme was Vice Presi 2015. She was Vice President, Americ President of ExxonMobil Global Servi Solutions Company on April 1, 2019, a	President, ExxonMobil Upstream Integrated Solutions April 1, 2019 dent, Europe, Russia and Caspian for ExxonMobil Gas & Power M as, Africa and Asia, ExxonMobil Gas & Power Marketing Com ces Company August 1, 2016 – March 31, 2019. She became F	Age: 55 Age: 55 Iarketing Company February 1, 2011 – June 30, npany July 1, 2015 – July 31, 2016. She was
Linda D. DuCharme Held current title since: Ms. Linda D. DuCharme was Vice Presi 2015. She was Vice President, Americ President of ExxonMobil Global Servi Solutions Company on April 1, 2019, a Neil W. Duffin Held current title since:	President, ExxonMobil Upstream Integrated Solutions April 1, 2019 dent, Europe, Russia and Caspian for ExxonMobil Gas & Power M as, Africa and Asia, ExxonMobil Gas & Power Marketing Com ces Company August 1, 2016 – March 31, 2019. She became H position she continues to hold as of this filing date. President, ExxonMobil Global Projects Company April 1, 2019	Age: 55 Age: 55 Arketing Company February 1, 2011 – June 30, apany July 1, 2015 – July 31, 2016. She was President of ExxonMobil Upstream Integrated Age: 63
Linda D. DuCharme Held current title since: Ms. Linda D. DuCharme was Vice Presi 2015. She was Vice President, Americ President of ExxonMobil Global Servi Solutions Company on April 1, 2019, a p Neil W. Duffin Held current title since: Mr. Neil W. Duffin was President of D Production Company and Vice Presider	President, ExxonMobil Upstream Integrated Solutions April 1, 2019 dent, Europe, Russia and Caspian for ExxonMobil Gas & Power M as, Africa and Asia, ExxonMobil Gas & Power Marketing Com ces Company August 1, 2016 – March 31, 2019. She became H position she continues to hold as of this filing date. President, ExxonMobil Global Projects Company	Age: 55 Age: 55 Aarketing Company February 1, 2011 – June 30, Apany July 1, 2015 – July 31, 2016. She was President of ExxonMobil Upstream Integrated Age: 63 r 31, 2016. He was President of ExxonMobil
Linda D. DuCharme Held current title since: Ms. Linda D. DuCharme was Vice Presi 2015. She was Vice President, Americ President of ExxonMobil Global Servi Solutions Company on April 1, 2019, a Neil W. Duffin Held current title since: Mr. Neil W. Duffin was President of D Production Company and Vice Presider	President, ExxonMobil Upstream Integrated Solutions April 1, 2019 dent, Europe, Russia and Caspian for ExxonMobil Gas & Power M ras, Africa and Asia, ExxonMobil Gas & Power Marketing Com ces Company August 1, 2016 – March 31, 2019. She became H position she continues to hold as of this filing date. President, ExxonMobil Global Projects Company April 1, 2019 ExxonMobil Development Company April 13, 2007 – December at of Exxon Mobil Corporation January 1, 2017 – March 31, 2019	Age: 55 Age: 55 Aarketing Company February 1, 2011 – June 30, Apany July 1, 2015 – July 31, 2016. She was President of ExxonMobil Upstream Integrated Age: 63 r 31, 2016. He was President of ExxonMobil

Stephen M. Greenlee	Vice President	
Held current title since:	September 1, 2010	Age: 62
	nt of ExxonMobil Exploration Company and Vice President of E of ExxonMobil Upstream Business Development Company and V	Exxon Mobil Corporation September 1, 2010
Neil A. Hansen	Vice President – Investor Relations and Secretary	
Held current title since:	July 1, 2018	Age: 45
31, 2017. He was Controller, ExxonMe Controller, ExxonMobil Fuels & Lubri	d Country Manager and Business Services Manager, Esso (Thailan bil Fuels, Lubricants & Specialties Marketing Company April 1, 20 cants Company January 1, 2018 – June 30, 2018. He became Vice 18, positions he continues to hold as of this filing date.	017 – December 31, 2017. He was Value Chai
Liam M. Mallon	Vice President	
Held current title since:	April 1, 2019	Age: 57
Mr. Liam M. Mallon was Executive V ExxonMobil Development Company J	ice President, ExxonMobil Development Company February 1, 20 anuary 1, 2017 – March 31, 2019. He became President of Exxonl on April 1, 2019, positions he continues to hold as of this filing date	Mobil Upstream Oil & Gas Company and Vic
Karen T. McKee	Vice President	
Held current title since:	April 1, 2019	Age: 53
President, Basic Chemicals, Integration	dent, Basic Chemicals, ExxonMobil Chemical Company. May 1, n & Growth, ExxonMobil Chemical Company August 1, 2017 fice President of Exxon Mobil Corporation on April 1, 2019, positio	- March 31, 2019. She became President of
Bryan W. Milton	Vice President	
Held current title since:	August 1, 2016	Age: 55
Lubricants & Specialties Marketing (ExxonMobil Global Services Company April 1, 2011 – July 31, company and Vice President of Exxon Mobil Corporation Augustricants Company and Vice President of Exxon Mobil Corporation	st 1, 2016 – December 31, 2017. He becam
David S. Rosenthal	Vice President and Controller	
Held current title since:	October 1, 2008 (Vice President) September 1, 2014 (Controller)	Age: 63
	sident – Investor Relations and Secretary of Exxon Mobil Corpor f Exxon Mobil Corporation on September 1, 2014, positions he con	ration October 1, 2008 – August 31, 2014. H
Robert N. Schleckser	Vice President and Treasurer	
Held current title since:	May 1, 2011	Age: 63
Mr. Robert N. Schleckser became Vic filing date.	President and Treasurer of Exxon Mobil Corporation on May 1,	2011, positions he continues to hold as of thi

James M. Spellings, Jr.	Vice President and General Tax Counsel	
	March 1, 2010 and General Tax Counsel of Exxon Mobil Corporation on March 1, 2010, posi	Age: 58 tions he continues to
hold as of this filing date.		
Theodore J. Wojnar, Jr.	Vice President – Corporate Strategic Planning	
Held current title since:	August 1, 2017	Age: 60
	Mobil Research and Engineering Company April 1, 2011 – July 31, 2017. He becapration on August 1, 2017, a position he continues to hold as of this filing date.	ame Vice President –

Officers are generally elected by the Board of Directors at its meeting on the day of each annual election of directors, with each such officer serving until a successor has been elected and qualified.

PART II

ITEM 5. MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

Reference is made to the "Quarterly Information" portion of the Financial Section of this report and Item 12 in Part III of this report.

Issuer Purchases of Equity Securities for Quarter Ended December 31, 2019

			Total Number of	
			Shares	
			Purchased as	Maximum Number
			Part of Publicly	of Shares that May
	Total Number of	Average Price	Announced	Yet Be Purchased
	Shares	Paid per	Plans or	Under the Plans or
Period	Purchased	Share	Programs	Programs
October 2019	-		-	
November 2019	-		-	
December 2019	-		-	
Total	-		-	(See Note 1)

During the fourth quarter, the Corporation did not purchase any shares of its common stock for the treasury, and did not issue or sell any unregistered equity securities.

Note 1 - On August 1, 2000, the Corporation announced its intention to resume purchases of shares of its common stock for the treasury both to offset shares issued in conjunction with company benefit plans and programs and to gradually reduce the number of shares outstanding. The announcement did not specify an amount or expiration date. The Corporation has continued to purchase shares since this announcement and to report purchased volumes in its quarterly earnings releases. In its earnings release dated February 2, 2016, the Corporation stated it will continue to acquire shares to offset dilution in conjunction with benefit plans and programs, but had suspended making purchases to reduce shares outstanding effective beginning the first quarter of 2016.

ITEM 6. SELECTED FINANCIAL DATA

	Years Ended December 31,						
	2019	2018	2017	2016	2015		
	(millions of dollars, except per share amounts)						
Sales and other operating revenue	255,583	279,332	237,162	200,628	239,854		
Net income attributable to ExxonMobil	14,340	20,840	19,710	7,840	16,150		
Earnings per common share	3.36	4.88	4.63	1.88	3.85		
Earnings per common share - assuming dilution	3.36	4.88	4.63	1.88	3.85		
Cash dividends per common share	3.43	3.23	3.06	2.98	2.88		
Total assets	362,597	346,196	348,691	330,314	336,758		
Long-term debt	26,342	20,538	24,406	28,932	19,925		

ITEM 7. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Reference is made to the section entitled "Management's Discussion and Analysis of Financial Condition and Results of Operations" in the Financial Section of this report.

ITEM 7A. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Reference is made to the section entitled "Market Risks, Inflation and Other Uncertainties", excluding the part entitled "Inflation and Other Uncertainties", in the Financial Section of this report. All statements, other than historical information incorporated in this Item 7A, are forward-looking statements. The actual impact of future market changes could differ materially due to, among other things, factors discussed in this report.

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Reference is made to the following in the Financial Section of this report:

- Consolidated financial statements, together with the report thereon of PricewaterhouseCoopers LLP dated February 26, 2020, beginning with the section entitled "Report of Independent Registered Public Accounting Firm" and continuing through "Note 20: Sale of Norway Assets";
- "Quarterly Information" (unaudited);
- [] "Supplemental Information on Oil and Gas Exploration and Production Activities" (unaudited); and
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Financial Statement Schedules have been omitted because they are not applicable or the required information is shown in the consolidated financial statements or notes thereto.

ITEM 9. CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A. CONTROLS AND PROCEDURES

Management's Evaluation of Disclosure Controls and Procedures

As indicated in the certifications in Exhibit 31 of this report, the Corporation's Chief Executive Officer, Principal Financial Officer and Principal Accounting Officer have evaluated the Corporation's disclosure controls and procedures as of December 31, 2019. Based on that evaluation, these officers have concluded that the Corporation's disclosure controls and procedures are effective in ensuring that information required to be disclosed by the Corporation in the reports that it files or submits under the Securities Exchange Act of 1934, as amended, is accumulated and communicated to them in a manner that allows for timely decisions regarding required disclosures and are effective in ensuring that such information is recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms.

Management's Report on Internal Control Over Financial Reporting

Management, including the Corporation's Chief Executive Officer, Principal Financial Officer and Principal Accounting Officer, is responsible for establishing and maintaining adequate internal control over the Corporation's financial reporting. Management conducted an evaluation of the effectiveness of internal control over financial reporting based on criteria established in *Internal Control - Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this evaluation, management concluded that Exxon Mobil Corporation's internal control over financial reporting was effective as of December 31, 2019.

PricewaterhouseCoopers LLP, an independent registered public accounting firm, audited the effectiveness of the Corporation's internal control over financial reporting as of December 31, 2019, as stated in their report included in the Financial Section of this report.

Changes in Internal Control Over Financial Reporting

There were no changes during the Corporation's last fiscal quarter that materially affected, or are reasonably likely to materially affect, the Corporation's internal control over financial reporting.

ITEM 9B. OTHER INFORMATION

None.

PART III

ITEM 10. DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Reference is made to the section of this report titled "Information about our Executive Officers".

Incorporated by reference to the following from the registrant's definitive proxy statement for the 2020 annual meeting of shareholders (the "2020 Proxy Statement"):

- The section entitled "Election of Directors";
- The portion entitled "Section 16(a) Beneficial Ownership Reporting Compliance" of the section entitled "Director and Executive Officer Stock Ownership";
- The portions entitled "Director Qualifications", "Board Succession", and "Code of Ethics and Business Conduct" of the section entitled "Corporate Governance"; and
- The "Audit Committee" portion, "Director Independence" portion, and the membership table of the portions entitled "Board Meetings and Annual Meeting Attendance" and "Board Committees" of the section entitled "Corporate Governance".

ITEM 11. EXECUTIVE COMPENSATION

Incorporated by reference to the sections entitled "Director Compensation", "Compensation Committee Report", "Compensation Discussion and Analysis", "Executive Compensation Tables", and "Pay Ratio" of the registrant's 2020 Proxy Statement.

ITEM 12. SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information required under Item 403 of Regulation S-K is incorporated by reference to the sections "Director and Executive Officer Stock Ownership" and "Certain Beneficial Owners" of the registrant's 2020 Proxy Statement.

Equity Compensation Plan Information			
Plan Category	(a) Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants and Rights	(b) Weighted- Average Exercise Price of Outstanding Options, Warrants and Rights	(c) Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans [Excluding Securities Reflected in Column (a)]
Equity compensation plans approved by security holders	42,636,850 (1)	-	76,488,320 (2)(3)
Equity compensation plans not approved by security holders Total	- 42,636,850	-	- 76,488,320

(1) The number of restricted stock units to be settled in shares.

(2) Available shares can be granted in the form of restricted stock or other stock-based awards. Includes 76,036,620 shares available for award under the 2003 Incentive Program and 451,700 shares available for award under the 2004 Non-Employee Director Restricted Stock Plan.

(3) Under the 2004 Non-Employee Director Restricted Stock Plan approved by shareholders in May 2004, and the related standing resolution adopted by the Board, each non-employee director automatically receives 8,000 shares of restricted stock when first elected to the Board and, if the director remains in office, an additional 2,500 restricted shares each following year. While on the Board, each non-employee director receives the same cash dividends on restricted shares as a holder of regular common stock, but the director is not allowed to sell the shares. The restricted shares may be forfeited if the director leaves the Board early.

ITEM 13. CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

Incorporated by reference to the portions entitled "Related Person Transactions and Procedures" and "Director Independence" of the section entitled "Corporate Governance" of the registrant's 2020 Proxy Statement.

ITEM 14. PRINCIPAL ACCOUNTING FEES AND SERVICES

Incorporated by reference to the portion entitled "Audit Committee" of the section entitled "Corporate Governance" and the section entitled "Ratification of Independent Auditors" of the registrant's 2020 Proxy Statement.

PART IV

ITEM 15. EXHIBITS, FINANCIAL STATEMENT SCHEDULES

(a) (1) and (2) Financial Statements:

See Table of Contents of the Financial Section of this report.

(a) (3) Exhibits:

See Index to Exhibits of this report.

ITEM 16. FORM 10-K SUMMARY

None.

FINANCIAL SECTION

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BUSINESS PROFILE

					Return	1 on	Capital	and
	Earnings	After	Average	Capital	Average (Capital	Explora	ition
	Income	Taxes	Emplo	oyed	Emplo	yed	Expendi	tures
Financial	2019	2018	2019	2018	2019	2018	2019	2018
		(millions o	f dollars)		(perce	ent)	(millions of a	lollars)
Upstream								
United States	536	1,739	72,152	69,981	0.7	2.5	11,653	7,670
Non-U.S.	13,906	12,340	107,271	107,893	13.0	11.4	11,832	12,524
Total	14,442	14,079	179,423	177,874	8.0	7.9	23,485	20,194
Downstream								
United States	1,717	2,962	9,515	8,725	18.0	33.9	2,353	1,186
Non-U.S.	606	3,048	18,518	17,015	3.3	17.9	2,018	2,243
Total	2,323	6,010	28,033	25,740	8.3	23.3	4,371	3,429
Chemical								
United States	206	1,642	13,196	12,171	1.6	13.5	2,547	1,747
Non-U.S.	386	1,709	18,113	18,249	2.1	9.4	718	488
Total	592	3,351	31,309	30,420	1.9	11.0	3,265	2,235
Corporate and financing	(3,017)	(2,600)	(2,162)	(1,660)	-	-	27	65
Total	14,340	20,840	236,603	232,374	6.5	9.2	31,148	25,923

See Frequently Used Terms for a definition and calculation of capital employed and return on average capital employed.

Operating	2019	2018		2019	2018
	(thousands of	barrels daily)		(thousands o	f barrels daily)
Net liquids production			Refinery throughput		
United States	646	551	United States	1,532	1,588
Non-U.S.	1,740	1,715	Non-U.S.	2,449	2,684
Total	2,386	2,266	Total	3,981	4,272
	(millions of cu	bic feet daily)		(thousands o	f barrels daily)
Natural gas production available for sale			Petroleum product sales (2)		
United States	2,778	2,574	United States	2,292	2,210
Non-U.S.	6,616	6,831	Non-U.S.	3,160	3,302
Total	9,394	9,405	Total	5,452	5,512
(thous	ands of oil-equivalent	barrels daily)		(thousands	of metric tons)
Oil-equivalent production (1)	3,952	3,833	Chemical prime product sales (2) (3)		
			United States	9,127	9,824
			Non-U.S.	17,389	17,045
			Total	26,516	26,869

(1) Natural gas is converted to an oil-equivalent basis at six million cubic feet per one thousand barrels.

(2) Petroleum product and chemical prime product sales data reported net of purchases/sales contracts with the same counterparty.

(3) Prime product sales are total product sales including ExxonMobil's share of equity company volumes and finished-product transfers to the Downstream.

FINANCIAL INFORMATION

	2019	2018	2017	2016	2015
		(millions of dollars	, except where stated	l otherwise)	
Sales and other operating revenue	255,583	279,332	237,162	200,628	239,854
Earnings					
Upstream	14,442	14,079	13,355	196	7,101
Downstream	2,323	6,010	5,597	4,201	6,557
Chemical	592	3,351	4,518	4,615	4,418
Corporate and financing	(3,017)	(2,600)	(3,760)	(1,172)	(1,926)
Net income attributable to ExxonMobil	14,340	20,840	19,710	7,840	16,150
Earnings per common share (dollars)	3.36	4.88	4.63	1.88	3.85
Earnings per common share – assuming dilution (dollars)	3.36	4.88	4.63	1.88	3.85
Earnings to average ExxonMobil share of equity (percent)	7.5	11.0	11.1	4.6	9.4
Working capital	(13,937)	(9,165)	(10,637)	(6,222)	(11,353)
Ratio of current assets to current liabilities (times)	0.78	0.84	0.82	0.87	0.79
Additions to property, plant and equipment	24,904	20,051	24,901	16,100	27,475
Property, plant and equipment, less allowances	253,018	247,101	252,630	244,224	251,605
Total assets	362,597	346,196	348,691	330,314	336,758
Exploration expenses, including dry holes	1,269	1,466	1,790	1,467	1,523
Research and development costs	1,214	1,116	1,063	1,058	1,008
Long-term debt	26,342	20,538	24,406	28,932	19,925
Total debt	46,920	37,796	42,336	42,762	38,687
Debt to capital (percent)	19.1	16.0	17.9	19.7	18.0
Net debt to capital (percent) (1)	18.1	14.9	16.8	18.4	16.5
ExxonMobil share of equity at year-end	191,650	191,794	187,688	167,325	170,811
ExxonMobil share of equity per common share (dollars) Weighted average number of common shares	45.26	45.27	44.28	40.34	41.10
outstanding (millions)	4,270	4,270	4,256	4,177	4,196
Number of regular employees at year-end (thousands) (2)	74.9	71.0	69.6	71.1	73.5

(1) Debt net of cash.

(2) Regular employees are defined as active executive, management, professional, technical and wage employees who work full time or part time for the Corporation and are covered by the Corporation's benefit plans and programs. Regular employees do not include employees of the company-operated retail sites (CORS). The number of CORS employees is not significant.

FREQUENTLY USED TERMS

Listed below are definitions of several of ExxonMobil's key business and financial performance measures. These definitions are provided to facilitate understanding of the terms and their calculation.

Cash Flow From Operations and Asset Sales

Cash flow from operations and asset sales is the sum of the net cash provided by operating activities and proceeds associated with sales of subsidiaries, property, plant and equipment, and sales and returns of investments from the Consolidated Statement of Cash Flows. This cash flow reflects the total sources of cash from both operating the Corporation's assets and from the divesting of assets. The Corporation employs a long-standing and regular disciplined review process to ensure that all assets are contributing to the Corporation's strategic objectives. Assets are divested when they are no longer meeting these objectives or are worth considerably more to others. Because of the regular nature of this activity, we believe it is useful for investors to consider proceeds associated with asset sales together with cash provided by operating activities when evaluating cash available for investment in the business and financing activities, including shareholder distributions.

Cash flow from operations and asset sales	2019	2018	2017
		(millions of dollars)	
Net cash provided by operating activities Proceeds associated with sales of subsidiaries, property, plant and equipment,	29,716	36,014	30,066
and sales and returns of investments	3,692	4,123	3,103
Cash flow from operations and asset sales	33,408	40,137	33,169

Capital Employed

Capital employed is a measure of net investment. When viewed from the perspective of how the capital is used by the businesses, it includes ExxonMobil's net share of property, plant and equipment and other assets less liabilities, excluding both short-term and long-term debt. When viewed from the perspective of the sources of capital employed in total for the Corporation, it includes ExxonMobil's share of total debt and equity. Both of these views include ExxonMobil's share of amounts applicable to equity companies, which the Corporation believes should be included to provide a more comprehensive measure of capital employed.

Capital employed	2019	2018	2017
		(millions of dollars)	
Business uses: asset and liability perspective			
Total assets	362,597	346,196	348,691
Less liabilities and noncontrolling interests share of assets and liabilities			
Total current liabilities excluding notes and loans payable	(43,411)	(39,880)	(39,841)
Total long-term liabilities excluding long-term debt	(73,328)	(69,992)	(72,014)
Noncontrolling interests share of assets and liabilities	(8,839)	(7,958)	(8,298)
Add ExxonMobil share of debt-financed equity company net assets	3,906	3,914	3,929
Total capital employed	240,925	232,280	232,467
Total corporate sources: debt and equity perspective			
Notes and loans payable	20,578	17,258	17,930
Long-term debt	26,342	20,538	24,406
ExxonMobil share of equity	191,650	191,794	187,688
Less noncontrolling interests share of total debt	(1,551)	(1,224)	(1,486)
Add ExxonMobil share of equity company debt	3,906	3,914	3,929
Total capital employed	240,925	232,280	232,467
38			

FREQUENTLY USED TERMS

Return on Average Capital Employed

Return on average capital employed (ROCE) is a performance measure ratio. From the perspective of the business segments, ROCE is annual business segment earnings divided by average business segment capital employed (average of beginning and end-of-year amounts). These segment earnings include ExxonMobil's share of segment earnings of equity companies, consistent with our capital employed definition, and exclude the cost of financing. The Corporation's total ROCE is net income attributable to ExxonMobil excluding the after-tax cost of financing, divided by total corporate average capital employed. The Corporation has consistently applied its ROCE definition for many years and views it as the best measure of historical capital productivity in our capital-intensive, long-term industry, both to evaluate management's performance and to demonstrate to shareholders that capital has been used wisely over the long term. Additional measures, which are more cash flow based, are used to make investment decisions.

Return on average capital employed	2019	2018	2017
	(millions of dollars)		
Net income attributable to ExxonMobil Financing costs (after tax)	14,340	20,840	19,710
Gross third-party debt	(1,075)	(912)	(709)
ExxonMobil share of equity companies	(207)	(192)	(204)
All other financing costs – net	141	498	515
Total financing costs	(1,141)	(606)	(398)
Earnings excluding financing costs	15,481	21,446	20,108
Average capital employed	236,603	232,374	222,631
Return on average capital employed – corporate total	6.5%	9.2%	9.0%

QUARTERLY INFORMATION

			2019					2018		
	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Year	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Year
Volumes										
Production of crude oil,					(thousands of	barrels daily)				
natural gas liquids, synthetic oil and bitumen	2,327	2,389	2,392	2,436	2,386	2,216	2,212	2,286	2,348	2,266
Refinery throughput	3,886	3,930	4,052	4,053	3,981	4,293	4,105	4,392	4,298	4,272
Petroleum product sales (1)	5,415	5,408	5,504	5,482	5,452	5,432	5,502	5,616	5,495	5,512
Natural gas production					(millions of cu	ıbic feet daily)				
available for sale	9,924	9,120	9,045	9,495	9,394	10,038	8,613	9,001	9,974	9,405
				(thou	ısands of oil-equ	ivalent barrels da	ily)			
Oil-equivalent production (2)	3,981	3,909	3,899	4,018	3,952	3,889	3,647	3,786	4,010	3,833
					(thousands o	f metric tons)				
Chemical prime product sales (1)	6,772	6,699	6,476	6,569	26,516	6,668	6,852	6,677	6,672	26,869
Summarized financial data										
Sales and other operating					(millions o	of dollars)				
revenue	61,646	67,491	63,422	63,024	255,583	65,436	71,456	74,187	68,253	279,332
Gross profit (3)	13,304	14,396	14,411	13,847	55,958	16,187	16,622	18,656	16,268	67,733
Net income attributable to										
ExxonMobil (4)	2,350	3,130	3,170	5,690	14,340	4,650	3,950	6,240	6,000	20,840
Per share data					(dollars p	ver share)				
Earnings per common share (5) Earnings per common share	0.55	0.73	0.75	1.33	3.36	1.09	0.92	1.46	1.41	4.88
– assuming dilution (5)	0.55	0.73	0.75	1.33	3.36	1.09	0.92	1.46	1.41	4.88

(1) Petroleum product and chemical prime product sales data reported net of purchases/sales contracts with the same counterparty.

(2) Natural gas is converted to an oil-equivalent basis at six million cubic feet per one thousand barrels.

(3) Gross profit equals sales and other operating revenue less estimated costs associated with products sold.

(4) Fourth quarter 2019 included a gain of \$3,655 million on the sale of non-operated upstream assets in Norway.

(5) Computed using the average number of shares outstanding during each period. The sum of the four quarters may not add to the full year.

The principal market where ExxonMobil common stock (XOM) is traded is the New York Stock Exchange, although the stock is traded on other exchanges in and outside the United States.

There were 354,828 registered shareholders of ExxonMobil common stock at December 31, 2019. At January 31, 2020, the registered shareholders of ExxonMobil common stock numbered 352,585.

On January 29, 2020, the Corporation declared an \$0.87 dividend per common share, payable March 10, 2020.

FUNCTIONAL EARNINGS	2019	2018	2017	
	(millions of	(millions of dollars, except per share amounts)		
Earnings (U.S. GAAP)				
Upstream				
United States	536	1,739	6,622	
Non-U.S.	13,906	12,340	6,733	
Downstream				
United States	1,717	2,962	1,948	
Non-U.S.	606	3,048	3,649	
Chemical				
United States	206	1,642	2,190	
Non-U.S.	386	1,709	2,328	
Corporate and financing	(3,017)	(2,600)	(3,760)	
Net income attributable to ExxonMobil (U.S. GAAP)	14,340	20,840	19,710	
Earnings per common share	3.36	4.88	4.63	
Earnings per common share – assuming dilution	3.36	4.88	4.63	

References in this discussion to total corporate earnings mean net income attributable to ExxonMobil (U.S. GAAP) from the consolidated income statement. Unless otherwise indicated, references to earnings, Upstream, Downstream, Chemical and Corporate and financing segment earnings, and earnings per share are ExxonMobil's share after excluding amounts attributable to noncontrolling interests.

FORWARD-LOOKING STATEMENTS

Statements in this discussion related to outlooks, projections, goals, targets, descriptions of strategic plans and objectives, and other statements of future events or conditions are forward-looking statements. Actual future results, including business and project plans, capacities, costs, and timing; capital spending; proceeds from asset sales; resource recoveries and production rates; asset carrying values; proved reserves; financing sources; the resolution of contingencies and uncertain tax positions; and the impact of new technologies, including to increase capital efficiency and production and to reduce greenhouse gas emissions, could differ materially due to a number of factors. These include global or regional changes in supply and demand for oil, gas, petrochemicals, feedstocks and other market conditions that impact prices and differentials; reservoir performance; the outcome of exploration projects and timely completion of development and construction projects; the impact of fiscal and commercial terms and the outcome of commercial negotiations or acquisitions; changes in law, taxes, or regulation including environmental regulations, and timely granting of governmental permits; war, trade agreements, shipping blockades or harassment, and other political, public health or security disturbances; opportunities for and regulatory approval of potential investments or divestments; the actions of competitors; the capture of efficiencies between business lines; unforeseen technical or operating difficulties; unexpected technological developments; the ability to bring new technologies to commercial scale on a cost-competitive basis, including large-scale hydraulic fracturing projects; general economic conditions including the occurrence and duration of economic recessions; the results of research programs; and other factors discussed herein and in Item 1A. Risk Factors. We assume no duty to update these statements as of any future date. The term "project" as used in this report can refer to a variety of diffe

OVERVIEW

The following discussion and analysis of ExxonMobil's financial results, as well as the accompanying financial statements and related notes to consolidated financial statements to which they refer, are the responsibility of the management of Exxon Mobil Corporation. The Corporation's accounting and financial reporting fairly reflect its integrated business model involving exploration for, and production of, crude oil and natural gas and manufacture, trade, transport and sale of crude oil, natural gas, petroleum products, petrochemicals and a wide variety of specialty products.

ExxonMobil, with its resource base, financial strength, disciplined investment approach and technology portfolio, is well-positioned to participate in substantial investments to develop new energy supplies. The company's integrated business model, with significant investments in Upstream, Downstream and Chemical segments, reduces the Corporation's risk from changes in commodity prices. While commodity prices depend on supply and demand and may be volatile on a short-term basis, ExxonMobil's investment decisions are grounded on fundamentals reflected in our long-term business outlook, and use a disciplined approach in selecting and pursuing the most attractive investment opportunities. The corporate plan is a fundamental annual management process that is the basis for setting near-term operating and capital objectives in addition to providing the longer-term economic assumptions used for investment evaluation purposes. Volumes are based on individual field production profiles, which are also updated annually. Price ranges for crude oil, natural gas, refined products, and chemical products are based on corporate plan assumptions developed annually by major region and are utilized for investment evaluation purposes. Major investment opportunities are evaluated over a range of potential market conditions. Once major investments are made, a reappraisal process is completed to ensure relevant lessons are learned and improvements are incorporated into future projects.



BUSINESS ENVIRONMENT AND RISK ASSESSMENT

Long-Term Business Outlook

The Long-Term Business Outlook is based on the Corporation's 2019 *Outlook for Energy*, which is used to help inform our long term business strategies and investment plans. By 2040, the world's population is projected at around 9.2 billion people, or about 1.6 billion more than in 2017. Coincident with this population increase, the Corporation expects worldwide economic growth to average close to 3 percent per year, with economic output nearly doubling by 2040. As economies and populations grow, and as living standards improve for billions of people, the need for energy is expected to continue to rise. Even with significant efficiency gains, global energy demand is projected to rise by about 20 percent from 2017 to 2040. This increase in energy demand is expected to be driven by developing countries (i.e., those that are not member nations of the Organisation for Economic Co-operation and Development (OECD)).

As expanding prosperity helps drive global energy demand higher, increasing use of energy efficient technologies and practices as well as lower-emission products will continue to help significantly reduce energy consumption and emissions per unit of economic output over time. Substantial efficiency gains are likely in all key aspects of the world's economy through 2040, affecting energy requirements for power generation, transportation, industrial applications, and residential and commercial needs.

Global electricity demand is expected to increase approximately 60 percent from 2017 to 2040, with developing countries likely to account for about 85 percent of the increase. Consistent with this projection, power generation is expected to remain the largest and fastest growing major segment of global primary energy demand, supported by a wide variety of energy sources. The share of coal fired generation is likely to decline substantially and approach 25 percent of the world's electricity in 2040, versus nearly 40 percent in 2017, in part as a result of policies to improve air quality as well as reduce greenhouse gas emissions to address the risks related to climate change. From 2017 to 2040, the amount of electricity supplied using natural gas, nuclear power, and renewables is likely to grow by two thirds, accounting for the entire growth in electricity supplies and offsetting the reduction of coal. Electricity from wind and solar is likely to increase about 400 percent, helping total renewables (including other sources, e.g. hydropower) to account for about 75 percent of the increase in electricity supplies worldwide through 2040. Total renewables will likely reach nearly 40 percent of global electricity supplies by 2040. Natural gas and nuclear are also expected to increase shares over the period to 2040, reaching almost 30 percent and about 15 percent of global electricity supplies respectively by 2040. Supplies of electricity by energy type will reflect significant differences across regions reflecting a wide range of factors including the cost and availability of various energy supplies and policy developments.

Energy for transportation – including cars, trucks, ships, trains and airplanes – is expected to increase more than 25 percent from 2017 to 2040. Transportation energy demand is likely to account for approximately 60 percent of the growth in liquid fuels demand worldwide over this period. Light-duty vehicle demand for liquid fuels is projected to peak prior to 2025 and then decline to levels seen in the early-2010s by 2040 as the impact of better fuel economy and significant growth in electric cars, led by China, Europe, and the United States, work to offset growth in the worldwide car fleet of about 70 percent. By 2040, light-duty vehicles are expected to account for about 20 percent of global liquid fuels demand. During the same time period, nearly all the world's transportation fleets are likely to continue to run on liquid fuels, which are widely available and offer practical advantages in providing a large quantity of energy in small volumes.

Liquid fuels provide the largest share of global energy supplies today reflecting broad-based availability, affordability, ease of transportation, and fitness as a practical solution to meet a wide variety of needs. By 2040, global demand for liquid fuels is projected to grow to approximately 114 million barrels of oil equivalent per day, an increase of about 16 percent from 2017. The non-OECD share of global liquid fuels demand is expected to increase to about 65 percent by 2040, as liquid fuels demand in the OECD is likely to decline by close to 10 percent. Much of the global liquid fuels demand today is met by crude production from traditional conventional sources; these supplies will remain important, and significant development activity is expected to offset much of the natural declines from these fields. At the same time, a variety of emerging supply sources – including tight oil, deepwater, oil sands, natural gas liquids and biofuels – are expected to grow to help meet rising demand. The world's resource base is sufficient to meet projected demand through 2040 as technology advances continue to expand the availability of economic and lower carbon supply options. However, timely investments will remain critical to meeting global needs with reliable and affordable supplies.

Natural gas is a low-emission, versatile and practical fuel for a wide variety of applications, and it is expected to grow the most of any primary energy type from 2017 to 2040, meeting more than 40 percent of global energy demand growth. Global natural gas demand is expected to rise about 35 percent from 2017 to 2040, with about half of that increase coming from the Asia Pacific region. Significant growth in supplies of unconventional gas – the natural gas found in shale and other tight rock formations – will help meet these needs. In total, about 60 percent of the growth in natural gas supplies is expected to be from unconventional sources. At the same time, conventionally-produced natural gas is likely to remain the cornerstone of global supply, meeting more than two thirds of worldwide demand in 2040. Liquefied natural gas (LNG) trade will expand significantly, meeting about 40 percent of the increase in global demand growth, with much of this supply expected to help meet rising demand in Asia Pacific.

The world's energy mix is highly diverse and will remain so through 2040. Oil is expected to remain the largest source of energy with its share remaining close to 30 percent in 2040. Coal is currently the second largest source of energy, but it is likely to lose that position to natural gas in the 2020-2025 timeframe. The share of natural gas is expected to reach about 25 percent by 2040, while the share of coal falls to about 20 percent. Nuclear power is projected to grow significantly, as many nations are likely to expand nuclear capacity to address rising electricity needs as well as energy security and environmental issues. Total renewable energy is likely to exceed 15 percent of global energy by 2040, with biomass, hydro and geothermal contributing a combined share of more than 10 percent. Total energy supplied from wind, solar and biofuels is expected to increase rapidly, growing nearly 250 percent from 2017 to 2040, when they will likely be just over 5 percent of the world energy mix.

The Corporation anticipates that the world's available oil and gas resource base will grow not only from new discoveries, but also from increases in previously discovered fields. Technology will underpin these increases. The investments to develop and supply resources to meet global demand through 2040 will be significant – even if demand remains flat. This reflects a fundamental aspect of the oil and natural gas business as the International Energy Agency (IEA) describes in its *World Energy Outlook 2019*. According to the IEA's Stated Energy Policies Scenario, the investment required to meet oil and natural gas supply requirements worldwide over the period 2019-2040 will be about \$20 trillion (measured in 2018 dollars). In the IEA's Sustainable Development Scenario, which is in line with the objectives of the Paris Agreement on climate change, the investment need would still accumulate to \$13 trillion.

International accords and underlying regional and national regulations covering greenhouse gas emissions continue to evolve with uncertain timing and outcome, making it difficult to predict their business impact. For many years, the Corporation has taken into account policies established to reduce energy related greenhouse gas emissions in its long-term *Outlook for Energy*. The climate accord reached at the Conference of the Parties (COP 21) in Paris set many new goals, and many related policies are still emerging. Our *Outlook* reflects an environment with increasingly stringent climate policies and is consistent with the aggregation of Nationally Determined Contributions, which were submitted by signatories to the United Nations Framework Convention on Climate Change (UNFCCC) 2015 Paris Agreement. Our *Outlook* seeks to identify potential impacts of climate related policies, which often target specific sectors. It estimates potential impacts of these policies on consumer energy demand by using various assumptions and tools – including, depending on the sector, application of a proxy cost of carbon or assessment of targeted policies (e.g. automotive fuel economy standards). For purposes of the *Outlook*, a proxy cost or energy-related CO₂ emissions is assumed to reach about \$80 per tonne in 2040 in OECD nations. China and other leading non-OECD nations are expected to trail OECD policy initiatives. Nevertheless, as people and nations look for ways to reduce risks of global climate change, they will continue to need practical solutions that do not jeopardize the affordability or reliability of the energy they need.

Practical solutions to the world's energy and climate challenges will benefit from market competition in addition to well-informed, well-designed, and transparent policy approaches that carefully weigh costs and benefits. Such policies are likely to help manage the risks of climate change while also enabling societies to pursue other high priority goals around the world – including clean air and water, access to reliable, affordable energy, and economic progress for all people. All practical and economically-viable energy sources, both conventional and unconventional, will need to be pursued to continue meeting global energy demand, recognizing the scale and variety of worldwide energy needs as well as the importance of expanding access to modern energy to promote better standards of living for billions of people.

The information provided in the Long-Term Business Outlook includes ExxonMobil's internal estimates and forecasts based upon internal data and analyses as well as publicly available information from external sources including the International Energy Agency.

Upstream

ExxonMobil continues to sustain a diverse growth portfolio of exploration and development opportunities, which enables the Corporation to be selective, maximizing shareholder value and mitigating political and technical risks. ExxonMobil's fundamental strategies guide our global Upstream business, including capturing material and accretive opportunities to continually high-grade the resource portfolio, selectively developing attractive oil and natural gas resources, developing and applying high-impact technologies, and pursuing productivity and efficiency gains. These strategies are underpinned by a relentless focus on operational excellence, development of our employees, and investment in the communities within which we operate.

As future development projects and drilling activities bring new production online, the Corporation expects a shift in the geographic mix and in the type of opportunities from which volumes are produced. Based on current investment plans, oil-equivalent production from the Americas is expected to increase to be a majority of total production over the next several years. Further, the proportion of our global production from unconventional, deepwater, and LNG resource types currently contributes nearly half of global production, and is expected to grow to be about 60 percent in the next few years.

The Corporation anticipates several projects will come online over the next few years providing additional production capacity. However, actual volumes will vary from year to year due to the timing of individual project start-ups; operational outages; reservoir performance; performance of enhanced oil recovery projects; regulatory changes; the impact of fiscal and commercial terms; asset sales; weather events; price effects on production sharing contracts; changes in the amount and timing of capital investments that may vary depending on the oil and gas price environment; and other factors described in Item 1A. Risk Factors.

The markets for crude oil and natural gas have a history of significant price volatility. ExxonMobil believes prices over the long term will continue to be driven by market supply and demand, with the demand side largely being a function of general economic activities, levels of prosperity, technology advances, consumer preference and government policies. On the supply side, prices may be significantly impacted by political events, the actions of OPEC and other large government resource owners, and other factors. To manage the risks associated with price, ExxonMobil evaluates annual plans and major investments across a range of price scenarios.

In 2019, the Upstream business produced 4.0 million oil-equivalent barrels per day. The Corporation continued to have exploration success in Guyana and Cyprus, and also made strategic acreage acquisitions in Argentina, Brazil, Greece, Egypt, and Namibia. In the more mature conventional operations, our primary goal is to maximize cash flow generation through ExxonMobil's world-class workforce and best practices in reliability and project execution. As a result, assets in Russia, Indonesia, Kazakhstan, and the United Arab Emirates all recorded their highest daily production rates to-date.

Downstream

ExxonMobil's Downstream is a large, diversified business with global logistics, trading, refining, and marketing. The Corporation has a presence with established markets in the Americas and Europe, as well as in the growing Asia Pacific region.

ExxonMobil's fundamental Downstream business strategies competitively position the company across a range of market conditions. These strategies include targeting best in class operations in all aspects of the business, maximizing value from advanced technologies, capitalizing on integration across ExxonMobil businesses, selectively investing for resilient, advantaged returns, operating efficiently and effectively, and providing quality, valued and differentiated products and services to customers.

ExxonMobil's operating results, as noted in Item 2. Properties, reflect 21 refineries, located in 14 countries, with distillation capacity of 4.7 million barrels per day and lubricant basestock manufacturing capacity of 129 thousand barrels per day. ExxonMobil's fuels and lubes value chains have significant global reach, with multiple channels to market serving a diverse customer base. Our portfolio of world-renowned brands includes *Exxon, Mobil, Esso, Synergy,* and *Mobil 1*.

Demand for products grew 1 million barrels per day or about 1 percent in 2019, but was outpaced by global refining capacity, which expanded by about 1.8 million barrels per day, resulting in weaker refining margins. Canadian crude differentials narrowed in 2019 as Alberta imposed limits on crude production, which resulted in lower refinery margins in Canada and the Midwest region of the U.S. New pipeline capacity in the Permian reduced the crude differentials between Midland and Houston. In the near term, we expect to continue to see variability in refining margins following the dynamics of the supply/demand balance.

Refining margins are largely driven by differences in commodity prices and are a function of the difference between what a refinery pays for its raw materials (primarily crude oil) and the market prices for the range of products produced (primarily gasoline, heating oil, diesel oil, jet fuel and fuel oil). Crude oil and many products are widely traded with published prices, including those quoted on multiple exchanges around the world (e.g., New York Mercantile Exchange and Intercontinental Exchange). Prices for these commodities are determined by the global marketplace and are influenced by many factors, including global and regional supply/demand balances, inventory levels, industry refinery operations, import/export balances, currency fluctuations, seasonal demand, weather, and political climate.

ExxonMobil's long term outlook is that industry refining margins will remain volatile subject to the pace of new capacity growth relative to global demand growth. ExxonMobil's integration including logistics, trading, refining, and marketing enhances our ability to generate returns across the value chain in both fuels and lubricants businesses.

As described in more detail in Item 1A. Risk Factors, proposed carbon policy and other climate related regulations in many countries, as well as the continued growth in biofuels mandates, could have negative impacts on the Downstream business.



The Downstream portfolio is continually evaluated during all parts of the business cycle, and numerous asset divestments have been made over the past decade. When investing in the Downstream, ExxonMobil remains focused on selective and resilient projects. The three key projects that started up at the end of 2018 (Antwerp coker, Rotterdam advanced hydrocracker and Beaumont hydrofiner) have added incremental earnings in 2019 to the Downstream by upgrading resid and intermediates into high value clean products and basestocks. Four other strategic projects have been approved during the first half of 2019. The Singapore resid upgrade project will use proprietary technology to upgrade the resid streams from the refinery and chemical plant into clean fuels and basestocks; the Fawley hydrofiner will upgrade high sulfur distillates into finished diesel and the project will also strengthen the logistics into the UK market; the Beaumont light crude expansion will enable the site to increase the processing capability of advantaged tight oil crudes; and finally, the Wink to Webster pipeline will provide efficient transportation of more than 1 million barrels per day of crude oil from the Permian to the Houston refining center.

ExxonMobil continues to grow its product sales in new markets near major production assets with continued progress on the Mexico and Indonesia market entries. The lubricants business continues to grow, leveraging world class brands and integration with industry leading basestock refining capability. Through the Mobil branded properties, such as *Mobil 1*, Mobil is the worldwide leader among synthetic motor oils.

Chemical

ExxonMobil is a major manufacturer and marketer of petrochemicals and a wide variety of specialty products. ExxonMobil sustains its competitive advantage through continued operational excellence, investment and cost discipline, a balanced portfolio of products, and integration with downstream and upstream operations, all underpinned by proprietary technology.

Demand for chemical products continued to grow in 2019. Polyolefin and aromatics product margins were however further impacted by capacity additions outpacing global demand growth.

Over the long term, demand for chemical products is forecast to outpace growth in global GDP and energy demand for the next two decades. ExxonMobil estimates that global demand for chemicals will rise by approximately 45 percent by 2030, driven by continued global growth of the middle class. ExxonMobil's integration with refining, together with unparalleled project execution capacity, enhances our ability to generate industry-leading returns across a range of market environments.

These competitive advantages enable us to continue to invest in projects that are robust to the chemical market cycles. In 2019, we started up the expansion of the polyethylene plant in Beaumont, Texas ahead of schedule, capitalizing on advantaged feedstock and energy supplies in North America. This capacity, together with the world-scale Baytown polyethylene lines started up in 2017, help to meet the rapidly growing global demand for performance polymers. We also made full funding decisions for a suite of Chemical projects. A 450-thousand-tonnes-per-year performance polypropylene line will add to our existing polypropylene capacity in Baton Rouge. The Baytown Chemical Expansion Project broke ground in 2019, and includes a 400-thousand-tonnes-per-year *Vistamaxx* performance polymer unit and a 350-thousand-tonnes-per-year alpha olefins unit, further expanding ExxonMobil's product portfolio. Construction also began in San Patricio County, Texas on our joint venture ethane cracker and associated derivative units. In addition, we continued to progress plans for a world-scale steam cracker and performance derivative units in Guangdong Province, China.

REVIEW OF 2019 AND 2018 RESULTS

	2019	2018	2017
Earnings (U.S. GAAP)		(millions of dollars)	
Net income attributable to ExxonMobil (U.S. GAAP)	14,340	20,840	19,710

Upstream					
	2019	2018	2017		
TT		(millions of dollars)			
Upstream					
United States	536	1,739	6,622		
Non-U.S.	13,906	12,340	6,733		
Total	14,442	14,079	13,355		

2019

Upstream earnings were \$14,442 million, up \$363 million from 2018.

- Lower realizations reduced earnings by \$2.7 billion.
- Favorable volume and mix effects increased earnings by \$860 million.
- All other items increased earnings by \$2.2 billion, as a \$3.7 billion gain from the Norway non-operated divestment was partly offset by higher expenses of \$1.1 billion.
- U.S. Upstream earnings were \$536 million and included asset impairments of \$146 million.
- Non-U.S. Upstream earnings were \$13,906 million, including the \$3.7 billion gain from the Norway non-operated divestment.
- On an oil-equivalent basis, production of 4.0 million barrels per day was up 3 percent compared to 2018.
- Liquids production of 2.4 million barrels per day increased 120,000 barrels per day reflecting growth and higher entitlements.
- Natural gas production of 9.4 billion cubic feet per day decreased 11 million cubic feet per day from 2018, with the impact from divestments and higher downtime offset by growth and higher entitlements.

2018

Upstream earnings were \$14,079 million, up \$724 million from 2017.

- Higher realizations increased earnings by \$7 billion.
- Unfavorable volume and mix effects decreased earnings by \$240 million.
- All other items decreased earnings by \$6.1 billion, primarily due to lower favorable impacts of \$6.9 billion from U.S. tax reform, partly offset by lower asset impairments of \$1.1 billion.
- U.S. Upstream earnings were \$1,739 million, including asset impairments of \$297 million.
- Non-U.S. Upstream earnings were \$12,340 million, including a favorable impact of \$271 million from U.S. tax reform.
- On an oil-equivalent basis, production of 3.8 million barrels per day was down 4 percent compared to 2017.
- Liquids production of 2.3 million barrels per day decreased 17,000 barrels per day as growth in North America was more than offset by decline, lower entitlements, and divestments.
- Natural gas production of 9.4 billion cubic feet per day decreased 806 million cubic feet per day from 2017 due to decline, lower entitlements, divestments, and higher downtime.

Upstream Additional Information

	2019	2018
	(thousands of ba	rrels daily)
Volumes Reconciliation (Oil-equivalent production) (1)		
Prior Year	3,833	3,985
Entitlements - Net Interest	(1)	(3)
Entitlements - Price / Spend / Other	34	(68)
Quotas	-	-
Divestments	(27)	(58)
Growth / Other	113	(23)
Current Year	3,952	3,833

(1) Natural gas is converted to an oil-equivalent basis at six million cubic feet per one thousand barrels.

Listed below are descriptions of ExxonMobil's volumes reconciliation factors which are provided to facilitate understanding of the terms.

Entitlements - *Net Interest* are changes to ExxonMobil's share of production volumes caused by non-operational changes to volume-determining factors. These factors consist of net interest changes specified in Production Sharing Contracts (PSCs) which typically occur when cumulative investment returns or production volumes achieve defined thresholds, changes in equity upon achieving pay-out in partner investment carry situations, equity redeterminations as specified in venture agreements, or as a result of the termination or expiry of a concession. Once a net interest change has occurred, it typically will not be reversed by subsequent events, such as lower crude oil prices.

Entitlements - Price, Spend and Other are changes to ExxonMobil's share of production volumes resulting from temporary changes to non-operational volume-determining factors. These factors include changes in oil and gas prices or spending levels from one period to another. According to the terms of contractual arrangements or government royalty regimes, price or spending variability can increase or decrease royalty burdens and/or volumes attributable to ExxonMobil. For example, at higher prices, fewer barrels are required for ExxonMobil to recover its costs. These effects generally vary from period to period with field spending patterns or market prices for oil and natural gas. Such factors can also include other temporary changes in net interest as dictated by specific provisions in production agreements.

Quotas are changes in ExxonMobil's allowable production arising from production constraints imposed by countries which are members of the Organization of the Petroleum Exporting Countries (OPEC). Volumes reported in this category would have been readily producible in the absence of the quota.

Divestments are reductions in ExxonMobil's production arising from commercial arrangements to fully or partially reduce equity in a field or asset in exchange for financial or other economic consideration.

Growth and Other factors comprise all other operational and non-operational factors not covered by the above definitions that may affect volumes attributable to ExxonMobil. Such factors include, but are not limited to, production enhancements from project and work program activities, acquisitions including additions from asset exchanges, downtime, market demand, natural field decline, and any fiscal or commercial terms that do not affect entitlements.



Downstream

	2019	2018	2017
		(millions of dollars)	
Downstream			
United States	1,717	2,962	1,948
Non-U.S.	606	3,048	3,649
Total	2,323	6,010	5,597

2019

Downstream earnings of \$2,323 million decreased \$3,687 million from 2018.

- Margins decreased earnings by \$3 billion including the impact of lower North American crude differentials.
- Volume and mix effects lowered earnings by \$50 million as project contributions and portfolio improvement were more than offset by increased downtime/maintenance and unfavorable yield/sales mix.
- All other items decreased earnings by \$660 million, mainly driven by the absence of prior year divestment gains and higher expenses reflecting increased maintenance and project startups, partly offset by favorable foreign exchange impacts and LIFO inventory gains.
- U.S. Downstream earnings were \$1,717 million, compared to \$2,962 million in the prior year.
- Non-U.S. Downstream earnings were \$606 million, compared to \$3,048 million in the prior year.
- Petroleum product sales of 5.5 million barrels per day were 60,000 barrels per day lower than 2018.

2018

Downstream earnings of \$6,010 million increased \$413 million from 2017.

- Margins increased earnings by \$660 million primarily due to the capture of North American crude differentials.
- □ Volume and mix effects increased earnings by \$650 million due to improved yield/sales mix.
- All other items decreased earnings by \$900 million, mainly driven by the absence of favorable U.S. tax reform impacts of \$618 million, unfavorable foreign exchange impacts, and higher downtime/maintenance, partly offset by higher divestment gains and favorable tax impacts.
- U.S. Downstream earnings were \$2,962 million, compared to \$1,948 million in the prior year which included a favorable impact of \$618 million from U.S. tax reform.
- Non-U.S. Downstream earnings were \$3,048 million, compared to \$3,649 million in the prior year.
- Petroleum product sales of 5.5 million barrels per day were 18,000 barrels per day lower than 2017.

Chemical

	2019	2018	2017	
		(millions of dollars)		
Chemical				
United States	206	1,642	2,190	
Non-U.S.	386	1,709	2,328	
Total	592	3,351	4,518	

2019

Chemical earnings of \$592 million decreased \$2,759 million from 2018.

- U Weaker margins decreased earnings by \$1.8 billion.
- U Volume and mix effects were essentially flat, as lower sales volumes were offset by new asset contributions.
- All other items decreased earnings by \$940 million, primarily due to higher expenses associated with new assets, business growth, and maintenance activity, the absence of a favorable tax item in the prior year, and unfavorable foreign exchange impacts.
- U.S. Chemical earnings were \$206 million in 2019, compared with \$1,642 million in the prior year.
- Non-U.S. Chemical earnings were \$386 million, compared with \$1,709 million in the prior year.
- Prime product sales of 26.5 million metric tons were down 0.4 million metric tons from 2018.

2018

Chemical earnings of \$3,351 million decreased \$1,167 million from 2017.

- Weaker margins decreased earnings by \$910 million.
- □ Volume and mix effects increased earnings by \$280 million, primarily due to sales growth.
- All other items decreased earnings by \$540 million, primarily due to the absence of favorable impacts from U.S. tax reform of \$335 million, higher downtime/maintenance, and growth-related expenses, partly offset by a favorable tax item and favorable foreign exchange impacts.
- U.S. Chemical earnings were \$1,642 million in 2018, compared with \$2,190 million in the prior year which included \$335 million in favorable impacts from U.S. tax reform.
- Non-U.S. Chemical earnings were \$1,709 million, compared with \$2,328 million in the prior year.
- Prime product sales of 26.9 million metric tons were up 1.4 million metric tons from 2017.

Corporate and Financing			
	2019	2018	2017
		(millions of dollars)	
Corporate and financing	(3,017)	(2,600)	(3,760)

2019

1.01

Corporate and financing expenses were \$3,017 million in 2019 compared to \$2,600 million in 2018, with the increase mainly due to unfavorable tax impacts and higher financing costs.

2018

Corporate and financing expenses were \$2,600 million in 2018 compared to \$3,760 million in 2017, with the decrease mainly due to the absence of prior year unfavorable impacts of \$2.1 billion from U.S. tax reform, partly offset by higher pension and financing related costs, the lower U.S. tax rate, and lower net favorable tax items.

LIQUIDITY AND CAPITAL RESOURCES

Sources and Uses of Cash

2019	2018	2017
	(millions of dollars)	
29,716	36,014	30,066
(23,084)	(16,446)	(15,730)
(6,618)	(19,446)	(15,130)
33	(257)	314
47	(135)	(480)
	(December 31)	
3,089	3,042	3,177
	29,716 (23,084) (6,618) <u>33</u> 47	(millions of dollars) 29,716 36,014 (23,084) (16,446) (6,618) (19,446) 33 (257) 47 (135) (December 31)

Total cash and cash equivalents were \$3.1 billion at the end of 2019, up \$47 million from the prior year. The major sources of funds in 2019 were net income including noncontrolling interests of \$14.8 billion, the adjustment for the noncash provision of \$19.0 billion for depreciation and depletion, a net debt increase of \$8.7 billion, and proceeds from asset sales of \$3.7 billion. The major uses of funds included spending for additions to property, plant and equipment of \$24.4 billion, dividends to shareholders of \$14.7 billion, and additional investments and advances of \$3.9 billion.

Total cash and cash equivalents were \$3.0 billion at the end of 2018, down \$0.1 billion from the prior year. The major sources of funds in 2018 were net income including noncontrolling interests of \$21.4 billion, the adjustment for the noncash provision of \$18.7 billion for depreciation and depletion, and proceeds from asset sales of \$4.1 billion. The major uses of funds included spending for additions to property, plant and equipment of \$19.6 billion, dividends to shareholders of \$13.8 billion, net debt repayments of \$4.9 billion, an increase in inventories of \$3.1 billion, the adjustment for net gains on asset sales of \$2.0 billion, and additional investments and advances of \$2.0 billion.

The Corporation has access to significant capacity of long-term and short-term liquidity. Internally generated funds are generally expected to cover financial requirements, supplemented by short-term and long-term debt as required. Commercial paper is used to balance short-term liquidity requirements, and is reflected in "Notes and loans payable" on the Consolidated Balance Sheet with changes in outstanding commercial paper between periods included in the Consolidated Statement of Cash Flows. On December 31, 2019, the Corporation had unused committed short-term lines of credit of \$7.9 billion and unused committed long-term lines of credit of \$0.2 billion. Cash that may be available as surplus to the Corporation's immediate needs is carefully managed through counterparty quality and investment guidelines to ensure it is secure and readily available to meet the Corporation's cash requirements, and to optimize returns.

To support cash flows in future periods the Corporation will need to continually find or acquire and develop new fields, and continue to develop and apply new technologies and recovery processes to existing fields, in order to maintain or increase production. After a period of production at plateau rates, it is the nature of oil and gas fields eventually to produce at declining rates for the remainder of their economic life. Decline rates can vary widely by individual field due to a number of factors, including, but not limited to, the type of reservoir, fluid properties, recovery mechanisms, work activity, and age of the field. In particular, the Corporation's key tight-oil plays have higher initial decline rates which tend to moderate over time. Furthermore, the Corporation's net interest in production for individual fields can vary with price and the impact of fiscal and commercial terms.

The Corporation has long been successful at offsetting the effects of natural field decline through disciplined investments in quality opportunities and project execution. The Corporation anticipates several projects will come online over the next few years providing additional production capacity. However, actual volumes will vary from year to year due to the timing of individual project start-ups; operational outages; reservoir performance; performance of enhanced oil recovery projects; regulatory changes; the impact of fiscal and commercial terms; asset sales; weather events; price effects on production sharing contracts; and changes in the amount and timing of investments that may vary depending on the oil and gas price environment. The Corporation's cash flows are also highly dependent on crude oil and natural gas prices. Please refer to Item 1A. Risk Factors for a more complete discussion of risks.

The Corporation's financial strength enables it to make large, long-term capital expenditures. Capital and exploration expenditures in 2019 were \$31.1 billion, reflecting the Corporation's continued active investment program. The Corporation anticipates an investment level of up to \$33 billion in 2020.

Actual spending could vary depending on the progress of individual projects and property acquisitions. The Corporation has a large and diverse portfolio of development projects and exploration opportunities, which helps mitigate the overall political and technical risks of the Corporation's Upstream segment and associated cash flow. Further, due to its financial strength, debt capacity and diverse portfolio of opportunities, the risk associated with failure or delay of any single project would not have a significant impact on the Corporation's liquidity or ability to generate sufficient cash flows for operations and its fixed commitments.

The Corporation, as part of its ongoing asset management program, continues to evaluate its mix of assets for potential upgrade. Because of the ongoing nature of this program, dispositions will continue to be made from time to time which will result in either gains or losses. Additionally, the Corporation continues to evaluate opportunities to enhance its business portfolio through acquisitions of assets or companies, and enters into such transactions from time to time. Key criteria for evaluating acquisitions include potential for future growth and attractive current valuations. Acquisitions may be made with cash, shares of the Corporation's common stock, or both.

ExxonMobil closely monitors the potential impacts of Brexit and Interbank Offered Rate (IBOR) reforms, including LIBOR, under a number of scenarios and has taken steps to mitigate their potential impact. Accordingly, ExxonMobil does not believe these events represent a material risk to the Corporation's consolidated results of operations or financial condition.

Cash Flow from Operating Activities

2019

Cash provided by operating activities totaled \$29.7 billion in 2019, \$6.3 billion lower than 2018. The major source of funds was net income including noncontrolling interests of \$14.8 billion, a decrease of \$6.6 billion. The noncash provision for depreciation and depletion was \$19.0 billion, up \$0.3 billion from the prior year. The adjustment for the net gain on asset sales was \$1.7 billion, a decrease of \$0.3 billion. The adjustment for dividends received less than equity in current earnings of equity companies was a reduction of \$0.9 billion, compared to a reduction of \$1.7 billion in 2018. Changes in operational working capital, excluding cash and debt, increased cash in 2019 by \$0.9 billion.

2018

Cash provided by operating activities totaled \$36.0 billion in 2018, \$5.9 billion higher than 2017. The major source of funds was net income including noncontrolling interests of \$21.4 billion, an increase of \$1.6 billion. The noncash provision for depreciation and depletion was \$18.7 billion, down \$1.1 billion from the prior year. The adjustment for the net gain on asset sales was \$2.0 billion, an increase of \$1.7 billion. The adjustment for dividends received less than equity in current earnings of equity companies was a reduction of \$1.7 billion, compared to an increase of \$0.1 billion in 2017. The adjustment for deferred income tax credits was \$0.1 billion, compared to \$8.6 billion in 2017. Changes in operational working capital, excluding cash and debt, decreased cash in 2018 by \$1.4 billion.

Cash Flow from Investing Activities

2019

Cash used in investing activities netted to \$23.1 billion in 2019, \$6.6 billion higher than 2018. Spending for property, plant and equipment of \$24.4 billion increased \$4.8 billion from 2018. Proceeds associated with sales of subsidiaries, property, plant and equipment, and sales and returns of investments of \$3.7 billion compared to \$4.1 billion in 2018. Additional investments and advances were \$1.9 billion higher in 2019, while proceeds from other investing activities including collection of advances increased by \$0.5 billion.

2018

Cash used in investing activities netted to \$16.4 billion in 2018, \$0.7 billion higher than 2017. Spending for property, plant and equipment of \$19.6 billion increased \$4.2 billion from 2017. Proceeds associated with sales of subsidiaries, property, plant and equipment, and sales and returns of investments of \$4.1 billion compared to \$3.1 billion in 2017. Additional investments and advances were \$3.5 billion lower in 2018, while proceeds from other investing activities including collection of advances decreased by \$1.1 billion.



Cash Flow from Financing Activities

2019

Cash used in financing activities was \$6.6 billion in 2019, \$12.8 billion lower than 2018. Dividend payments on common shares increased to \$3.43 per share from \$3.23 per share and totaled \$14.7 billion. During the third quarter of 2019, the Corporation issued \$7.0 billion of long-term debt. Total debt increased \$9.1 billion to \$46.9 billion at year-end.

ExxonMobil share of equity decreased \$0.1 billion to \$191.7 billion. The addition to equity for earnings was \$14.3 billion. This was offset by reductions for distributions to ExxonMobil shareholders of \$14.7 billion, all in the form of dividends. Foreign exchange translation effects of \$1.4 billion for the weaker U.S. currency increased equity, while a \$1.4 billion change in the funded status of the postretirement benefits reserves reduced equity.

During 2019, Exxon Mobil Corporation acquired 8 million shares of its common stock for the treasury. Purchases were made to offset shares or units settled in shares issued in conjunction with the company's benefit plans and programs. Shares outstanding decreased from 4,237 million to 4,234 million at the end of 2019.

2018

Cash used in financing activities was \$19.4 billion in 2018, \$4.3 billion higher than 2017. Dividend payments on common shares increased to \$3.23 per share from \$3.06 per share and totaled \$13.8 billion. Total debt decreased \$4.5 billion to \$37.8 billion at year-end. The reduction was principally driven by net short-term debt and commercial paper repayments of \$5.0 billion.

ExxonMobil share of equity increased \$4.1 billion to \$191.8 billion. The addition to equity for earnings was \$20.8 billion. This was partly offset by reductions for distributions to ExxonMobil shareholders of \$13.8 billion, all in the form of dividends. Foreign exchange translation effects of \$4.4 billion for the stronger U.S. currency reduced equity, while a \$1.1 billion change in the funded status of the postretirement benefits reserves increased equity.

During 2018, Exxon Mobil Corporation acquired 8 million shares of its common stock for the treasury. Purchases were made to offset shares or units settled in shares issued in conjunction with the company's benefit plans and programs. Shares outstanding decreased from 4,239 million to 4,237 million at the end of 2018.

Commitments

Set forth below is information about the outstanding commitments of the Corporation's consolidated subsidiaries at December 31, 2019. The table combines data from the Consolidated Balance Sheet and from individual notes to the Consolidated Financial Statements.

	Payments Due by Period					
	Note				2025	
	Reference		2021-	2023-	and	
Commitments	Number	2020	2022	2024	Beyond	Total
		(millions of dollars)				
Long-term debt excluding finance lease obligations (1)	6, 14	1,617	6,119	3,391	15,162	26,289
Asset retirement obligations (2)	9	1,001	1,027	806	8,446	11,280
Pension and other postretirement obligations (3)	17	2,332	1,777	1,735	16,169	22,013
Lease commitments (4)	11					
Operating and finance leases - commenced		1,632	2,468	1,313	2,188	7,601
Operating and finance leases - not yet commenced		327	569	1,046	2,627	4,569
Take-or-pay and unconditional purchase obligations (5)		3,836	7,093	5,580	17,148	33,657
Firm capital commitments (6)		10,982	5,278	1,149	686	18,095

This table excludes commodity purchase obligations (volumetric commitments but no fixed or minimum price) which are resold shortly after purchase, either in an active, highly liquid market or under long-term, unconditional sales contracts with similar pricing terms. Examples include long-term, noncancelable LNG and natural gas purchase commitments and commitments to purchase refinery products at market prices. Inclusion of such commitments would not be meaningful in assessing liquidity and cash flow, because these purchases will be offset in the same periods by cash received from the related sales transactions. The table also excludes unrecognized tax benefits totaling \$8.8 billion as of December 31, 2019, because the Corporation is unable to make reasonably reliable estimates of the timing of cash settlements with the respective taxing authorities. Further details on the unrecognized tax benefits can be found in "Note 19: Income and Other Taxes".

Notes:

(1) The amount due in 2020 is included in Notes and loans payable of \$20,578 million. The amounts due 2021 and beyond are included in Long-term debt of \$26,342 million.

(2) Asset retirement obligations are primarily upstream asset removal costs at the completion of field life.

- (3) The amount by which the benefit obligations exceeded the fair value of fund assets for U.S. and non-U.S. pension and other postretirement plans at year-end. The payments by period include expected contributions to funded pension plans in 2020 and estimated benefit payments for unfunded plans in all years.
- (4) Commitments for operating and finance leases cover drilling equipment, tankers and other assets.
- (5) Take-or-pay obligations are noncancelable, long-term commitments for goods and services. Unconditional purchase obligations are those long-term commitments that are noncancelable or cancelable only under certain conditions, and that third parties have used to secure financing for the facilities that will provide the contracted goods or services. The obligations mainly pertain to pipeline, manufacturing supply and terminal agreements.
- (6) Firm capital commitments represent legally binding payment obligations to third parties where agreements specifying all significant terms have been executed for the construction and purchase of fixed assets and other permanent investments. In certain cases where the Corporation executes contracts requiring commitments to a work scope, those commitments have been included to the extent that the amounts and timing of payments can be reliably estimated. Firm capital commitments, shown on an undiscounted basis, totaled \$18.1 billion, including \$8.7 billion in the U.S.

Firm capital commitments for the non-U.S. Upstream of \$6.9 billion were primarily associated with projects in Angola, Malaysia, Guyana, United Kingdom, Australia, United Arab Emirates, Canada and Brazil. The Corporation expects to fund the majority of these commitments with internally generated funds, supplemented by short-term and long-term debt as required.



Guarantees

The Corporation and certain of its consolidated subsidiaries were contingently liable at December 31, 2019, for guarantees relating to notes, loans and performance under contracts (Note 16). Where guarantees for environmental remediation and other similar matters do not include a stated cap, the amounts reflect management's estimate of the maximum potential exposure. These guarantees are not reasonably likely to have a material effect on the Corporation's financial condition, changes in financial condition, revenues or expenses, results of operations, liquidity, capital expenditures or capital resources.

Financial Strength

On December 31, 2019, the Corporation's unused short-term committed lines of credit totaled \$7.9 billion (Note 6) and unused long-term committed lines of credit totaled \$0.2 billion (Note 14). The table below shows the Corporation's consolidated debt-to-capital ratios. The data demonstrates the Corporation's creditworthiness.

	2019	2018	2017
Debt to capital (percent)	19.1	16.0	17.9
Net debt to capital (percent)	18.1	14.9	16.8

Management views the Corporation's financial strength, as evidenced by the above financial ratios and other similar measures, to be a competitive advantage of strategic importance. The Corporation's sound financial position gives it the opportunity to access the world's capital markets in the full range of market conditions, and enables the Corporation to take on large, long-term capital commitments in the pursuit of maximizing shareholder value.

Litigation and Other Contingencies

As discussed in Note 16, a variety of claims have been made against ExxonMobil and certain of its consolidated subsidiaries in a number of pending lawsuits. Based on a consideration of all relevant facts and circumstances, the Corporation does not believe the ultimate outcome of any currently pending lawsuit against ExxonMobil will have a material adverse effect upon the Corporation's operations, financial condition, or financial statements taken as a whole. There are no events or uncertainties beyond those already included in reported financial information that would indicate a material change in future operating results or financial condition. Refer to Note 16 for additional information on legal proceedings and other contingencies.

CAPITAL AND EXPLORATION EXPENDITURES

Capital and exploration expenditures (Capex) represents the combined total of additions at cost to property, plant and equipment, and exploration expenses on a before-tax basis from the Consolidated Statement of Income. ExxonMobil's Capex includes its share of similar costs for equity companies. Capex excludes assets acquired in nonmonetary exchanges, the value of ExxonMobil shares used to acquire assets, and depreciation on the cost of exploration support equipment and facilities recorded to property, plant and equipment when acquired. While ExxonMobil's management is responsible for all investments and elements of net income, particular focus is placed on managing the controllable aspects of this group of expenditures.

		2019			2018	
	U.S.	Non-U.S.	Total	U.S.	Non-U.S.	Total
			(millions o	of dollars)		
Upstream (1)	11,653	11,832	23,485	7,670	12,524	20,194
Downstream	2,353	2,018	4,371	1,186	2,243	3,429
Chemical	2,547	718	3,265	1,747	488	2,235
Other	27	-	27	65	-	65
Total	16,580	14,568	31,148	10,668	15,255	25,923

(1) Exploration expenses included.

Capex in 2019 was \$31.1 billion, as the Corporation continued to pursue opportunities to find and produce new supplies of oil and natural gas to meet global demand for energy. The Corporation anticipates an investment level of up to \$33 billion in 2020. Actual spending could vary depending on the progress of individual projects and property acquisitions.



Upstream spending of \$23.5 billion in 2019 was up 16 percent from 2018. Investments in 2019 included growth in the U.S. Permian Basin and key development projects in Guyana and Mozambique. Development projects typically take several years from the time of recording proved undeveloped reserves to the start of production and can exceed five years for large and complex projects. The percentage of proved developed reserves was 66 percent of total proved reserves at year-end 2019, and has been over 60 percent for the last ten years.

Capital investments in the Downstream totaled \$4.4 billion in 2019, an increase of \$0.9 billion from 2018, reflecting global project spending. Chemical capital expenditures of \$3.3 billion, increased \$1 billion, representing investments in growth projects.

TAXES

2019	2018	2017	
(millions of dollars)			
5,282	9,532	(1,174)	
34%	37%	5%	
33,186	35,230	32,459	
38,468	44,762	31,285	
	5,282 34% 33,186	(millions of dollars) 5,282 9,532 34% 37% 33,186 35,230	

2019

Total taxes on the Corporation's income statement were \$38.5 billion in 2019, a decrease of \$6.3 billion from 2018. Income tax expense, both current and deferred, was \$5.3 billion compared to \$9.5 billion in 2018. The effective tax rate, which is calculated based on consolidated company income taxes and ExxonMobil's share of equity company income taxes, was 34 percent compared to 37 percent in the prior year due primarily to the impact of the divestment of non-operated upstream assets in Norway. Total other taxes and duties of \$33.2 billion in 2019 decreased \$2.0 billion.

2018

Total taxes on the Corporation's income statement were \$44.8 billion in 2018, an increase of \$13.5 billion from 2017. Income tax expense, both current and deferred, was \$9.5 billion compared to a credit of \$1.2 billion in 2017. The effective tax rate, which is calculated based on consolidated company income taxes and ExxonMobil's share of equity company income taxes, was 37 percent compared to 5 percent. The increase principally reflects the absence of the impact of U.S. tax reform in the prior year. Total other taxes and duties of \$35.2 billion in 2018 increased \$2.8 billion.

U.S. Tax Reform

Following the December 22, 2017, enactment of the U.S. Tax Cuts and Jobs Act, in accordance with Accounting Standard Codification Topic 740 (Income Taxes) and following the guidance outlined in the SEC Staff Accounting Bulletin No. 118, the Corporation included a \$5,942 million credit in its 2017 results, representing a reasonable estimate of the income tax effects of the changes in tax law and tax rate. The Corporation's results for 2018 include a \$291 million tax credit, mainly in the Non-U.S. Upstream, reflecting an updated estimate of the impact of U.S. tax reform including clarifications provided in tax regulations issued by the U.S. Treasury. The Corporation completed its accounting for the enactment-date income tax effects of the U.S. Tax Cuts and Jobs Act in accordance with Accounting Standard Codification Topic 740 (Income Taxes) during 2018.

ENVIRONMENTAL MATTERS

Environmental Even en ditures

Environmental Expenditures		
•	2019	2018
	(millions o	f dollars)
Capital expenditures	1,276	1,294
Other expenditures	3,969	3,558
Total	5,245	4,852

Throughout ExxonMobil's businesses, new and ongoing measures are taken to prevent and minimize the impact of our operations on air, water and ground. These include a significant investment in refining infrastructure and technology to manufacture clean fuels, as well as projects to monitor and reduce nitrogen oxide, sulfur oxide and greenhouse gas emissions, and expenditures for asset retirement obligations. Using definitions and guidelines established by the American Petroleum Institute, ExxonMobil's 2019 worldwide environmental expenditures for all such preventative and remediation steps, including ExxonMobil's share of equity company expenditures, were \$5.2 billion, of which \$4.0 billion were included in expenses with the remainder in capital expenditures. The total cost for such activities is expected to increase to approximately \$5.9 billion in 2020 and 2021. Capital expenditures are expected to account for approximately 35 percent of the total.

Environmental Liabilities

The Corporation accrues environmental liabilities when it is probable that obligations have been incurred and the amounts can be reasonably estimated. This policy applies to assets or businesses currently owned or previously disposed. ExxonMobil has accrued liabilities for probable environmental remediation obligations at various sites, including multiparty sites where the U.S. Environmental Protection Agency has identified ExxonMobil as one of the potentially responsible parties. The involvement of other financially responsible companies at these multiparty sites could mitigate ExxonMobil's actual joint and several liability exposure. At present, no individual site is expected to have losses material to ExxonMobil's operations or financial condition. Consolidated company provisions made in 2019 for environmental liabilities were \$290 million (\$330 million in 2018) and the balance sheet reflects liabilities of \$835 million as of December 31, 2018.

MARKET RISKS, INFLATION AND OTHER UNCERTAINTIES

Worldwide Average Realizations (1)	2019	2018	2017
Crude oil and NGL (\$ per barrel)	56.32	62.79	48.91
Natural gas (\$ per thousand cubic feet)	3.05	3.87	3.04

(1) Consolidated subsidiaries.

Crude oil, natural gas, petroleum product and chemical prices have fluctuated in response to changing market forces. The impacts of these price fluctuations on earnings from Upstream, Downstream and Chemical operations have varied. In the Upstream, a \$1 per barrel change in the weighted-average realized price of oil would have approximately a \$475 million annual after-tax effect on Upstream consolidated plus equity company earnings, excluding the impact of derivatives. Similarly, a \$0.10 per thousand cubic feet change in the worldwide average gas realization would have approximately a \$175 million annual after-tax effect on Upstream consolidated plus equity company earnings, excluding the impact of derivatives. For any given period, the extent of actual benefit or detriment will be dependent on the price movements of individual types of crude oil, results of trading activities, taxes and other government take impacts, price adjustment lags in long-term gas contracts, and crude and gas production volumes. Accordingly, changes in benchmark prices for crude oil and natural gas only provide broad indicators of changes in the earnings experienced in any particular period.

In the very competitive downstream and chemical environments, earnings are primarily determined by margin capture rather than absolute price levels of products sold. Refining margins are a function of the difference between what a refiner pays for its raw materials (primarily crude oil) and the market prices for the range of products produced. These prices in turn depend on global and regional supply/demand balances, inventory levels, refinery operations, import/export balances and weather.

The global energy markets can give rise to extended periods in which market conditions are adverse to one or more of the Corporation's businesses. Such conditions, along with the capital-intensive nature of the industry and very long lead times associated with many of our projects, underscore the importance of maintaining a strong financial position. Management views the Corporation's financial strength as a competitive advantage.

In general, segment results are not dependent on the ability to sell and/or purchase products to/from other segments. Instead, where such sales take place, they are the result of efficiencies and competitive advantages of integrated refinery/chemical complexes. Additionally, intersegment sales are at market-based prices. The products bought and sold between segments can also be acquired in worldwide markets that have substantial liquidity, capacity and transportation capabilities. Refer to Note 18 for additional information on intersegment revenue.

Although price levels of crude oil and natural gas may rise or fall significantly over the short to medium term due to global economic conditions, political events, decisions by OPEC and other major government resource owners and other factors, industry economics over the long term will continue to be driven by market supply and demand. Accordingly, the Corporation evaluates the viability of its major investments over a range of prices.

The Corporation has an active asset management program in which underperforming assets are either improved to acceptable levels or considered for divestment. The asset management program includes a disciplined, regular review to ensure that all assets are contributing to the Corporation's strategic objectives resulting in an efficient capital base.

Risk Management

The Corporation's size, strong capital structure, geographic diversity and the complementary nature of the Upstream, Downstream and Chemical businesses reduce the Corporation's enterprise-wide risk from changes in commodity prices, currency rates and interest rates. In addition, the Corporation uses commodity-based contracts, including derivatives, to manage commodity price risk and for trading purposes. The Corporation's commodity derivatives are not accounted for under hedge accounting. At times, the Corporation also enters into currency and interest rate derivatives, none of which are material to the Corporation's financial position as of December 31, 2019 and 2018, or results of operations for the years ended 2019, 2018 and 2017. Credit risk associated with the Corporation's derivative position is mitigated by several factors, including the use of derivative clearing exchanges and the quality of and financial limits placed on derivative counterparties. No material market or credit risks to the Corporation's financial position, results of operation as a system of controls that includes the authorization, reporting and monitoring of derivative activity.

The Corporation is exposed to changes in interest rates, primarily on its short-term debt and the portion of long-term debt that carries floating interest rates. The impact of a 100-basis-point change in interest rates affecting the Corporation's debt would not be material to earnings, cash flow or fair value. The Corporation has access to significant capacity of long-term and short-term liquidity. Internally generated funds are generally expected to cover financial requirements, supplemented by long-term and short-term debt as required. Commercial paper is used to balance short-term liquidity requirements. Some joint-venture partners are dependent on the credit markets, and their funding ability may impact the development pace of joint-venture projects.

The Corporation conducts business in many foreign currencies and is subject to exchange rate risk on cash flows related to sales, expenses, financing and investment transactions. Fluctuations in exchange rates are often offsetting and the impacts on ExxonMobil's geographically and functionally diverse operations are varied. The Corporation makes limited use of currency exchange contracts to mitigate the impact of changes in currency values, and exposures related to the Corporation's use of these contracts are not material.

Inflation and Other Uncertainties

The general rate of inflation in many major countries of operation has remained moderate over the past few years, and the associated impact on non-energy costs has generally been mitigated by cost reductions from efficiency and productivity improvements. Prices for services and materials continue to evolve in response to constant changes in commodity markets and industry activities, impacting operating and capital costs. The Corporation monitors market trends and works to minimize costs in all commodity price environments through its economies of scale in global procurement and its efficient project management practices.



RECENTLY ISSUED ACCOUNTING STANDARDS

Effective January 1, 2020, the Corporation adopted the Financial Accounting Standards Board's update, *Financial Instruments – Credit Losses (Topic 326)*, as amended. The standard requires a valuation allowance for credit losses be recognized for certain financial assets that reflects the current expected credit loss over the asset's contractual life. The valuation allowance considers the risk of loss, even if remote, and considers past events, current conditions and expectations of the future. The standard is not expected to have a material impact on the Corporation's financial statements.

CRITICAL ACCOUNTING ESTIMATES

The Corporation's accounting and financial reporting fairly reflect its integrated business model involving exploration for, and production of, crude oil and natural gas and manufacture, trade, transport and sale of crude oil, natural gas, petroleum products, petrochemicals and a wide variety of specialty products. The preparation of financial statements in conformity with U.S. Generally Accepted Accounting Principles (GAAP) requires management to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses and the disclosure of contingent assets and liabilities. The Corporation's accounting policies are summarized in Note 1.

Oil and Natural Gas Reserves

The estimation of proved reserves is an ongoing process based on rigorous technical evaluations, commercial and market assessments and detailed analysis of well information such as flow rates and reservoir pressure declines, development and production costs, among other factors. The estimation of proved reserves is controlled by the Corporation through long-standing approval guidelines. Reserve changes are made within a well-established, disciplined process driven by senior level geoscience and engineering professionals, assisted by the Global Reserves and Resources Group which has significant technical experience, culminating in reviews with and approval by senior management. Notably, the Corporation does not use specific quantitative reserve targets to determine compensation. Key features of the reserve estimation process are covered in Disclosure of Reserves in Item 2.

Oil and natural gas reserves include both proved and unproved reserves.

Proved oil and natural gas reserves are determined in accordance with Securities and Exchange Commission (SEC) requirements. Proved reserves are those quantities of oil and natural gas which, by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be economically producible under existing economic and operating conditions and government regulations. Proved reserves are determined using the average of first-of-month oil and natural gas prices during the reporting year.

Proved reserves can be further subdivided into developed and undeveloped reserves. Proved developed reserves include amounts which are expected to be recovered through existing wells with existing equipment and operating methods. Proved undeveloped reserves include amounts expected to be recovered from new wells on undrilled proved acreage or from existing wells where a relatively major expenditure is required for completion. Proved undeveloped reserves are recognized only if a development plan has been adopted indicating that the reserves are scheduled to be drilled within five years, unless specific circumstances support a longer period of time.

The percentage of proved developed reserves was 66 percent of total proved reserves at year-end 2019 (including both consolidated and equity company reserves), a decrease from 68 percent in 2018, and has been over 60 percent for the last ten years. Although the Corporation is reasonably certain that proved reserves will be produced, the timing and amount recovered can be affected by a number of factors including completion of development projects, reservoir performance, regulatory approvals, government policy, consumer preferences and significant changes in long-term oil and natural gas prices.

Unproved reserves are quantities of oil and natural gas with less than reasonable certainty of recoverability and include probable reserves. Probable reserves are reserves that, together with proved reserves, are as likely as not to be recovered.

Revisions in previously estimated volumes of proved reserves for existing fields can occur due to the evaluation or re-evaluation of (1) already available geologic, reservoir or production data, (2) new geologic, reservoir or production data or (3) changes in the average of first-of-month oil and natural gas prices and / or costs that are used in the estimation of reserves. Revisions can also result from significant changes in development strategy or production equipment and facility capacity.

Unit-of-Production Depreciation

Oil and natural gas reserve quantities are used as the basis to calculate unit-of-production depreciation rates for most upstream assets. Depreciation is calculated by taking the ratio of asset cost to total proved reserves or proved developed reserves applied to actual production. The volumes produced and asset cost are known, while proved reserves are based on estimates that are subject to some variability.



In the event that the unit-of-production method does not result in an equitable allocation of cost over the economic life of an upstream asset, an alternative method is used. The straight-line method may be used in limited situations where the expected life of the asset does not reasonably correlate with that of the underlying reserves. For example, certain assets used in the production of oil and natural gas have a shorter life than the reserves, and as such, the Corporation uses straight-line depreciation to ensure the asset is fully depreciated by the end of its useful life.

To the extent that proved reserves for a property are substantially de-booked and that property continues to produce such that the resulting depreciation charge does not result in an equitable allocation of cost over the expected life, assets will be depreciated using a unit-of-production method based on reserves determined at the most recent SEC price which results in a more meaningful quantity of proved reserves, appropriately adjusted for production and technical changes.

Impairment

The Corporation tests assets or groups of assets for recoverability on an ongoing basis whenever events or changes in circumstances indicate that the carrying amounts may not be recoverable. Among the events or changes in circumstances which could indicate that the carrying value of an asset or asset group may not be recoverable are the following:

- a significant decrease in the market price of a long-lived asset;
- a significant adverse change in the extent or manner in which an asset is being used or in its physical condition including a significant decrease in current and projected reserve volumes;
- a significant adverse change in legal factors or in the business climate that could affect the value, including an adverse action or assessment by a regulator;
- an accumulation of project costs significantly in excess of the amount originally expected;
- a current-period operating loss combined with a history and forecast of operating or cash flow losses; and
- a current expectation that, more likely than not, a long-lived asset will be sold or otherwise disposed of significantly before the end of its previously estimated useful life.

Asset valuation analyses, profitability reviews and other periodic control processes assist the Corporation in assessing whether events or changes in circumstances indicate the carrying amounts of any of its assets may not be recoverable.

In general, the Corporation does not view temporarily low prices or margins as an indication of impairment. Management believes that prices over the long term must be sufficient to generate investments in energy supply to meet global demand. Although prices will occasionally drop significantly, industry prices over the long term will continue to be driven by market supply and demand fundamentals. On the supply side, industry production from mature fields is declining. This is being offset by investments to generate production from new discoveries, field developments and technology and efficiency advancements. OPEC investment activities and production policies also have an impact on world oil supplies. The demand side is largely a function of general economic activities and levels of prosperity. Because the lifespans of the vast majority of the Corporation's major assets are measured in decades, the value of these assets is predominantly based on long-term views of future commodity prices, and development and production costs. During the lifespan of these major assets, the Corporation expects that oil and gas prices will experience significant volatility, and consequently these assets will experience periods of higher earnings and periods of lower earnings, or even losses.

In assessing whether the events or changes in circumstances indicate the carrying value of an asset may not be recoverable, the Corporation considers recent periods of operating losses in the context of its longer-term view of prices. While near-term prices are subject to wide fluctuations, longer-term price views are more stable and meaningful for purposes of assessing future cash flows.

When the industry experiences a prolonged and deep reduction in commodity prices, the market supply and demand conditions may result in changes to the Corporation's long-term price or margin assumptions it uses for its capital investment decisions. To the extent those changes result in a significant reduction to its long-term oil price, natural gas price or margin ranges, the Corporation may consider that situation, in conjunction with other events or changes in circumstances such as a history of operating losses, an indicator of potential impairment for certain assets.

In the Upstream, the standardized measure of discounted cash flows included in the Supplemental Information on Oil and Gas Exploration and Production Activities is required to use prices based on the average of first-of-month prices. These prices represent discrete points in time and could be higher or lower than the Corporation's long-term price assumptions which are used for impairment assessments. The Corporation believes the standardized measure does not provide a reliable estimate of the expected future cash flows to be obtained from the development and production of its oil and gas properties or of the value of its oil and gas reserves and therefore does not consider it relevant in determining whether events or changes in circumstances indicate the need for an impairment assessment.

The Corporation has a robust process to monitor for indicators of potential impairment across its asset groups throughout the year. This process is aligned with the requirements of ASC 360 and relies in part on the Corporation's planning and budgeting cycle. If events or changes in circumstances indicate that the carrying value of an asset may not be recoverable, the Corporation estimates the future undiscounted cash flows of the affected properties to judge the recoverability of carrying amounts. In performing this assessment, assets are grouped at the lowest level for which there are identifiable cash flows that are largely independent of the cash flows of other groups of assets. Cash flows used in recoverability assessments are based on the Corporation's assumptions which are developed in the annual planning and budgeting process, and are consistent with the criteria management uses to evaluate investment opportunities. These evaluations make use of the Corporation's assumptions of future capital allocations, crude oil and natural gas commodity prices including price differentials, refining and chemical margins, volumes, development and operating costs, and foreign currency exchange rates. Volumes are based on projected field and facility production profiles, throughput, or sales. Management's estimate of upstream production volumes used for projected cash flows makes use of proved reserve quantities and may include risk-adjusted unproved reserve quantities. Cash flow estimates for impairment testing exclude the effects of derivative instruments.

An asset group is impaired if its estimated undiscounted cash flows are less than the asset's carrying value. Impairments are measured by the amount by which the carrying value exceeds fair value. Fair value is based on market prices if an active market exists for the asset group, or discounted cash flows using a discount rate commensurate with the risk. Significant unproved properties are assessed for impairment individually, and valuation allowances against the capitalized costs are recorded based on the estimated economic chance of success and the length of time that the Corporation expects to hold the properties. Properties that are not individually significant are aggregated by groups and amortized based on development risk and average holding period.

The Corporation's 2019 results include after-tax charges of \$0.1 billion to reduce the carrying value of assets to fair value. The assessment of fair value requires the use of Level 3 inputs and assumptions that are based upon the views of a likely market participant. The principal parameters used to establish fair value include estimates of both proved and unproved reserves, future commodity prices which were consistent with the average of third-party industry experts and government agencies, drilling and development costs, discount rates which are reflective of the characteristics of the asset group, and comparable market transactions.

Factors which could put further assets at risk of impairment in the future include reductions in the Corporation's long-term price outlooks, changes in the allocation of capital, and operating cost increases which exceed the pace of efficiencies or the pace of oil and natural gas price increases. However, due to the inherent difficulty in predicting future commodity prices, and the relationship between industry prices and costs, it is not practicable to reasonably estimate the existence or range of any potential future impairment charges related to the Corporation's long-lived assets.

Asset Retirement Obligations

The Corporation incurs retirement obligations for certain assets. The fair values of these obligations are recorded as liabilities on a discounted basis, which is typically at the time the assets are installed. In the estimation of fair value, the Corporation uses assumptions and judgments regarding such factors as the existence of a legal obligation for an asset retirement obligation; technical assessments of the assets; estimated amounts and timing of settlements; discount rates; and inflation rates. Asset retirement obligations are disclosed in Note 9 to the financial statements.

Suspended Exploratory Well Costs

The Corporation continues capitalization of exploratory well costs when the well has found a sufficient quantity of reserves to justify its completion as a producing well and the Corporation is making sufficient progress assessing the reserves and the economic and operating viability of the project. Exploratory well costs not meeting these criteria are charged to expense. The facts and circumstances that support continued capitalization of suspended wells at year-end are disclosed in Note 10 to the financial statements.

Consolidations

The Consolidated Financial Statements include the accounts of subsidiaries the Corporation controls. They also include the Corporation's share of the undivided interest in certain upstream assets, liabilities, revenues and expenses. Amounts representing the Corporation's interest in entities that it does not control, but over which it exercises significant influence, are accounted for using the equity method of accounting.

Investments in companies that are partially owned by the Corporation are integral to the Corporation's operations. In some cases they serve to balance worldwide risks, and in others they provide the only available means of entry into a particular market or area of interest. The other parties, who also have an equity interest in these companies, are either independent third parties or host governments that share in the business results according to their ownership. The Corporation does not invest in these companies in order to remove liabilities from its balance sheet. In fact, the Corporation has long been on record supporting an alternative accounting method that would require each investor to consolidate its share of all assets and liabilities in these partially-owned companies rather than only its interest in net equity. This method of accounting for investments in partially-owned companies is not permitted by U.S. GAAP except where the investments are in the direct ownership of a share of upstream assets and liabilities. However, for purposes of calculating return on average capital employed, which is not covered by U.S. GAAP standards, the Corporation includes its share of debt of these partially-owned companies in the determination of average capital employed.

Pension Benefits

The Corporation and its affiliates sponsor nearly 90 defined benefit (pension) plans in over 40 countries. The Pension and Other Postretirement Benefits footnote (Note 17) provides details on pension obligations, fund assets and pension expense.

Some of these plans (primarily non-U.S.) provide pension benefits that are paid directly by their sponsoring affiliates out of corporate cash flow rather than a separate pension fund because applicable tax rules and regulatory practices do not encourage advance funding. Book reserves are established for these plans. The portion of the pension cost attributable to employee service is expensed as services are rendered. The portion attributable to the increase in pension obligations due to the passage of time is expensed over the term of the obligations, which ends when all benefits are paid. The primary difference in pension expense for unfunded versus funded plans is that pension expense for funded plans also includes a credit for the expected long-term return on fund assets.

For funded plans, including those in the U.S., pension obligations are financed in advance through segregated assets or insurance arrangements. These plans are managed in compliance with the requirements of governmental authorities and meet or exceed required funding levels as measured by relevant actuarial and government standards at the mandated measurement dates. In determining liabilities and required contributions, these standards often require approaches and assumptions that differ from those used for accounting purposes.

The Corporation will continue to make contributions to these funded plans as necessary. All defined-benefit pension obligations, regardless of the funding status of the underlying plans, are fully supported by the financial strength of the Corporation or the respective sponsoring affiliate.

Pension accounting requires explicit assumptions regarding, among others, the long-term expected earnings rate on fund assets, the discount rate for the benefit obligations and the long-term rate for future salary increases. Pension assumptions are reviewed annually by outside actuaries and senior management. These assumptions are adjusted as appropriate to reflect changes in market rates and outlook. The long-term expected earnings rate on U.S. pension plan assets in 2019 was 5.3 percent. The 10-year and 20-year actual returns on U.S. pension plan assets were 9 percent and 6 percent, respectively. The Corporation establishes the long-term expected rate of return by developing a forward-looking, long-term return assumption for each pension fund asset class, taking into account factors such as the expected real return for the specific asset class and inflation. A single, long-term rate of return is then calculated as the weighted average of the target asset allocation percentages and the long-term return assumption for each asset class. A worldwide reduction of 0.5 percent in the long-term rate of return on assets would increase annual pension expense by approximately \$180 million before tax.

Differences between actual returns on fund assets and the long-term expected return are not recognized in pension expense in the year that the difference occurs. Such differences are deferred, along with other actuarial gains and losses, and are amortized into pension expense over the expected remaining service life of employees.

Litigation Contingencies

A variety of claims have been made against the Corporation and certain of its consolidated subsidiaries in a number of pending lawsuits. Management has regular litigation reviews, including updates from corporate and outside counsel, to assess the need for accounting recognition or disclosure of these contingencies. The status of significant claims is summarized in Note 16.

The Corporation accrues an undiscounted liability for those contingencies where the incurrence of a loss is probable, and the amount can be reasonably estimated. These amounts are not reduced by amounts that may be recovered under insurance or claims against third parties, but undiscounted receivables from insurers or other third parties may be accrued separately. The Corporation revises such accruals in light of new information. For contingencies where an unfavorable outcome is reasonably possible and which are significant, the Corporation discloses the nature of the contingency and, where feasible, an estimate of the possible loss. For purposes of our litigation contingency disclosures, "significant" includes material matters as well as other items which management believes should be disclosed.

Management judgment is required related to contingent liabilities and the outcome of litigation because both are difficult to predict. However, the Corporation has been successful in defending litigation in the past. Payments have not had a material adverse effect on operations or financial condition. In the Corporation's experience, large claims often do not result in large awards. Large awards are often reversed or substantially reduced as a result of appeal or settlement.

Tax Contingencies

The Corporation is subject to income taxation in many jurisdictions around the world. Significant management judgment is required in the accounting for income tax contingencies and tax disputes because the outcomes are often difficult to predict.

The benefits of uncertain tax positions that the Corporation has taken or expects to take in its income tax returns are recognized in the financial statements if management concludes that it is more likely than not that the position will be sustained with the tax authorities. For a position that is likely to be sustained, the benefit recognized in the financial statements is measured at the largest amount that is greater than 50 percent likely of being realized. A reserve is established for the difference between a position taken or expected to be taken in an income tax return and the amount recognized in the financial statements. The Corporation's unrecognized tax benefits and a description of open tax years are summarized in Note 19.

Foreign Currency Translation

The method of translating the foreign currency financial statements of the Corporation's international subsidiaries into U.S. dollars is prescribed by U.S. GAAP. Under these principles, it is necessary to select the functional currency of these subsidiaries. The functional currency is the currency of the primary economic environment in which the subsidiary operates. Management selects the functional currency after evaluating this economic environment.

Factors considered by management when determining the functional currency for a subsidiary include the currency used for cash flows related to individual assets and liabilities; the responsiveness of sales prices to changes in exchange rates; the history of inflation in the country; whether sales are into local markets or exported; the currency used to acquire raw materials, labor, services and supplies; sources of financing; and significance of intercompany transactions.

MANAGEMENT'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING

Management, including the Corporation's Chief Executive Officer, Principal Financial Officer, and Principal Accounting Officer, is responsible for establishing and maintaining adequate internal control over the Corporation's financial reporting. Management conducted an evaluation of the effectiveness of internal control over financial reporting based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this evaluation, management concluded that Exxon Mobil Corporation's internal control over financial reporting was effective as of December 31, 2019.

PricewaterhouseCoopers LLP, an independent registered public accounting firm, audited the effectiveness of the Corporation's internal control over financial reporting as of December 31, 2019, as stated in their report included in the Financial Section of this report.

W(J)

Darren W. Woods Chief Executive Officer

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Andrew P. Swiger Senior Vice President (Principal Financial Officer)

David L. Rodenths

David S. Rosenthal Vice President and Controller (Principal Accounting Officer)



To the Board of Directors and Shareholders of Exxon Mobil Corporation

Opinions on the Financial Statements and Internal Control over Financial Reporting

We have audited the accompanying consolidated balance sheet of Exxon Mobil Corporation and its subsidiaries (the "Corporation") as of December 31, 2019 and 2018, and the related consolidated statements of income, comprehensive income, changes in equity and cash flows for each of the three years in the period ended December 31, 2019, including the related notes (collectively referred to as the "consolidated financial statements"). We also have audited the Corporation's internal control over financial reporting as of December 31, 2019 based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Corporation as of December 31, 2019 and 2018, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2019 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Corporation maintained, in all material respects, effective internal control over financial reporting as of December 31, 2019, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the COSO.

Basis for Opinions

The Corporation's management is responsible for these consolidated financial statements, 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. Our responsibility is to express opinions on the Corporation's consolidated financial statements and on the Corporation's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Corporation 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 audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated 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 consolidated 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 consolidated financial statements. Our audit of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

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 (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) 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 (iii) 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.

Critical Audit Matters

The critical audit matter communicated below is a matter arising from the current period audit of the consolidated financial statements that was communicated or required to be communicated to the audit committee and that (i) relates to accounts or disclosures that are material to the consolidated financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

The Impact of Proved Oil and Natural Gas Reserves on Upstream Property, Plant and Equipment, Net

As described in Notes 1, 9 and 18 to the consolidated financial statements, the Corporation's consolidated upstream property, plant and equipment (PP&E) balance, net was \$197 billion as of December 31, 2019, and the related depreciation, depletion and amortization (DD&A) expense for the year ended December 31, 2019 was \$15 billion. Management uses the successful efforts method to account for its exploration and production activities. Costs incurred to purchase, lease, or otherwise acquire a property (whether unproved or proved) are capitalized when incurred. As disclosed by management, proved oil and natural gas reserve quantities are used as the basis to calculate unit-of-production depreciation rates for most upstream assets. The estimation of proved oil and natural gas reserves is an ongoing process based on technical evaluations, commercial and market assessments, and detailed analysis of well information such as flow rates and reservoir pressure declines, development and production costs, among other factors. Reserve changes are made within a well-established, disciplined process driven by senior level geoscience and engineering professionals, assisted by the Global Reserves and Resources Group (together "management's specialists").

The principal consideration for our determination that performing procedures relating to the impact of proved oil and natural gas reserves on upstream PP&E, net is a critical audit matter is that there was significant judgment by management, including the use of management's specialists, when developing the estimates of proved oil and natural gas reserves. This in turn led to a high degree of auditor judgment, subjectivity, and effort in performing procedures and evaluating evidence obtained related to the significant assumptions used by management, including development costs and production volumes.

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to management's estimates of proved oil and natural gas reserves and the calculation of DD&A expense. These procedures also included, among others (i) testing the completeness, accuracy, and relevance of underlying data used in developing management's estimates, (ii) evaluating the methods and significant assumptions used by management in developing these estimates, including development costs and production volumes, and (iii) testing the unit-of-production rates used to calculate DD&A expense. Evaluating the significant assumptions relating to the estimates of proved oil and natural gas reserves also involved obtaining evidence to support the reasonableness of the assumptions, including whether the assumptions used were reasonable considering the past performance of the Company, and whether they were consistent with evidence obtained in other areas of the audit. The work of management's specialists was used in performing the procedures to evaluate the reasonableness of these estimates of proved oil and natural gas reserves. As a basis for using this work, the specialists' qualifications and objectivity were understood, as well as the methods and assumptions used by the specialists. The procedures performed also included tests of data used by management's specialists, and an evaluation of the specialists' findings.

/s/ PricewaterhouseCoopers LLP

Dallas, Texas February 26, 2020

We have served as the Corporation's auditor since 1934.

CONSOLIDATED STATEMENT OF INCOME

	Note			
	Reference			
	Number	2019	2018	2017
			(millions of dollars)	
Revenues and other income				
Sales and other operating revenue		255,583	279,332	237,162
Income from equity affiliates	7	5,441	7,355	5,380
Other income		3,914	3,525	1,821
Total revenues and other income		264,938	290,212	244,363
Costs and other deductions				
Crude oil and product purchases		143,801	156,172	128,217
Production and manufacturing expenses		36,826	36,682	32,690
Selling, general and administrative expenses		11,398	11,480	10,649
Depreciation and depletion	9	18,998	18,745	19,893
Exploration expenses, including dry holes		1,269	1,466	1,790
Non-service pension and postretirement benefit expense	17	1,235	1,285	1,745
Interest expense		830	766	601
Other taxes and duties	19	30,525	32,663	30,104
Total costs and other deductions		244,882	259,259	225,689
Income before income taxes		20,056	30,953	18,674
Income taxes	19	5,282	9,532	(1,174)
Net income including noncontrolling interests		14,774	21,421	19,848
Net income attributable to noncontrolling interests		434	581	138
Net income attributable to ExxonMobil		14,340	20,840	19,710
Earnings per common share (dollars)	12	3.36	4.88	4.63
Earnings per common share - assuming dilution (dollars)	12	3.36	4.88	4.63

The information in the Notes to Consolidated Financial Statements is an integral part of these statements.

CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME

	2019	2018	2017
	((millions of dollars)	
Net income including noncontrolling interests	14,774	21,421	19,848
Other comprehensive income (net of income taxes)			
Foreign exchange translation adjustment	1,735	(5,077)	5,352
Adjustment for foreign exchange translation (gain)/loss			
included in net income	-	196	234
Postretirement benefits reserves adjustment (excluding amortization)	(2,092)	280	(219)
Amortization and settlement of postretirement benefits reserves			
adjustment included in net periodic benefit costs	582	931	1,165
Total other comprehensive income	225	(3,670)	6,532
Comprehensive income including noncontrolling interests	14,999	17,751	26,380
Comprehensive income attributable to noncontrolling interests	588	174	693
Comprehensive income attributable to ExxonMobil	14,411	17,577	25,687

The information in the Notes to Consolidated Financial Statements is an integral part of these statements.

CONSOLIDATED BALANCE SHEET

	Note Reference Number	D 34	D 11
		Dec. 31 2019	Dec. 31 2018
	Tumber	2019 (millions of	
Assets		(minons of	uonui sy
Current assets			
Cash and cash equivalents		3,089	3,042
Notes and accounts receivable, less estimated doubtful amounts	6	26,966	24,701
Inventories		,	,
Crude oil, products and merchandise	3	14,010	14,803
Materials and supplies		4,518	4,155
Other current assets		1,469	1,272
Total current assets		50,052	47,973
Investments, advances and long-term receivables	8	43,164	40,790
Property, plant and equipment, at cost, less accumulated depreciation			,
and depletion	9	253,018	247,101
Other assets, including intangibles, net		16,363	10,332
Total assets		362,597	346,196
		,	,
Liabilities			
Current liabilities			
Notes and loans payable	6	20,578	17,258
Accounts payable and accrued liabilities	6	41,831	37,268
Income taxes payable		1,580	2,612
Total current liabilities		63,989	57,138
Long-term debt	14	26,342	20,538
Postretirement benefits reserves	17	22,304	20,272
Deferred income tax liabilities	19	25,620	27,244
Long-term obligations to equity companies		3,988	4,382
Other long-term obligations		21,416	18,094
Total liabilities		163,659	147,668
Commitments and contingencies	16		
Equity			
Common stock without par value			
(9,000 million shares authorized, 8,019 million shares issued)		15,637	15,258
Earnings reinvested		421,341	421,653
Accumulated other comprehensive income		(19,493)	(19,564)
Common stock held in treasury			. ,
(3,785 million shares in 2019 and 3,782 million shares in 2018)		(225,835)	(225,553)
ExxonMobil share of equity		191,650	191,794
Noncontrolling interests		7,288	6,734
Total equity		198,938	198,528
Total liabilities and equity		362,597	346,196

The information in the Notes to Consolidated Financial Statements is an integral part of these statements.

CONSOLIDATED STATEMENT OF CASH FLOWS

		Note			
		Reference Number	2019	2018	2017
		Number		millions of dollars)	2017
Cash flows from operating activit	ies		· · · · · · · · · · · · · · · · · · ·		
Net income including noncontrolling interests			14,774	21,421	19,848
Adjustments for noncash trar	-		,	,	,
Depreciation and deplet		9	18,998	18,745	19,893
Deferred income tax cha		5	(944)	(60)	(8,577)
Postretirement benefits			(0.1)		(-)-)
in excess of/(less than) net payments			109	1,070	1,135
Other long-term obligati			100	_,	_,
in excess of/(less th			(3,038)	(68)	(610)
	han/(less than) equity in current		(3,030)	(00)	(010)
earnings of equity comp			(936)	(1,684)	131
	ing capital, excluding cash and debt		(550)	(1,004)	101
Reduction/(increase)	- Notes and accounts receivable		(2,640)	(545)	(3,954)
Reduction/(increase)	- Inventories		(2,040)	(3,107)	(1,682)
	- Other current assets		(234)	(3,107)	(1,002)
Increase/(reduction)	- Accounts and other payables		3,725	2,321	5,104
Net (gain) on asset sales	- Accounts and other payables	-	(1,710)	(1,993)	(334)
All other items - net		5	1,540	(1,555)	(771)
Net cash provided by op	perating activities		29,716	36,014	30,066
iver cash provided by op			23,710	30,014	50,000
Cash flows from investing activiti			(24.201)	(10 574)	(15 402)
Additions to property, plant and equipment			(24,361)	(19,574)	(15,402)
	es of subsidiaries, property, plant		2 602	4 4 9 9	2 4 0 2
and equipment, and sales and returns of investments			3,692	4,123	3,103
Additional investments and advances			(3,905)	(1,981)	(5,507)
Other investing activities including collection of advances			1,490	986	2,076
Net cash used in investi	ng activities		(23,084)	(16,446)	(15,730)
Cash flows from financing activit	ies				
Additions to long-term debt			7,052	46	60
Reductions in long-term debt			(1)	-	-
Additions to short-term debt			-	-	1,735
Reductions in short-term debt			(4,043)	(4,752)	(5,024)
	mmercial paper, and debt with				
three months or less mat	turity	5	5,654	(219)	2,181
Cash dividends to ExxonMol	bil shareholders		(14,652)	(13,798)	(13,001)
Cash dividends to noncontrol	lling interests		(192)	(243)	(184)
Changes in noncontrolling interests			158	146	(150)
Common stock acquired			(594)	(626)	(747)
Net cash used in financi	ing activities		(6,618)	(19,446)	(15,130)
Effects of exchange rate changes of			33	(257)	314
Increase/(decrease) in cash and cash equivalents			47	(135)	(480)
Cash and cash equivalents at beginning of year			3,042	3,177	3,657
Cash and cash equivalents at end			3,089	3,042	3,177
and caon equivalence at that	,		3,000	5,012	5,17

The information in the Notes to Consolidated Financial Statements is an integral part of these statements.

CONSOLIDATED STATEMENT OF CHANGES IN EQUITY

	ExxonMobil Share of Equity						
	Common Stock	Earnings Reinvested	Accumulated Other Comprehensive Income	Common Stock Held in Treasury	ExxonMobil Share of Equity	Non- controlling Interests	Total Equity
			(mill	ions of dollars)			
Balance as of December 31, 2016 Amortization of stock-based awards	12,157 801	407,831	(22,239)	(230,424)	167,325 801	6,505	173,830 801
Other Net income for the year	(380)	19,710	-	-	(380) 19,710	(52) 138	(432) 19,848
Dividends - common shares Other comprehensive income	-	(13,001)	- 5,977	-	(13,001) 5,977	(184) 555	(13,185) 6,532
Acquisitions, at cost Issued for acquisitions Dispositions	2,078	-	-	(828) 5,711 295	(828) 7,789 295	(150)	(978) 7,789 295
Balance as of December 31, 2017 Amortization of stock-based awards	14,656 758	414,540	(16,262)	(225,246)	187,688 758	6,812	194,500 758
Other Net income for the year	(156)	- 20,840	-	-	(156) 20,840	436 581	280 21,421
Dividends - common shares Cumulative effect of accounting change	-	(13,798) 71	- (39)	-	(13,798) 32	(243) 15	(14,041) 47
Other comprehensive income Acquisitions, at cost Dispositions	- - -		(3,263)	- (626) 319	(3,263) (626) 319	(407) (460)	(3,670) (1,086) 319
Balance as of December 31, 2018 Amortization of stock-based awards	15,258 697	421,653	(19,564)	(225,553)	191,794 697	6,734	198,528 697
Other Net income for the year Dividends - common shares	(318)	- 14,340 (14,652)	-	-	(318) 14,340 (14,652)	489 434 (192)	171 14,774 (14,844)
Other comprehensive income Acquisitions, at cost	-	(14,652)	71	- - (594)	(14,652) 71 (594)	(192) 154 (331)	(14,844) 225 (925)
Dispositions Balance as of December 31, 2019		421,341	(19,493)	(225,835)	<u>312</u> 191,650	7.288	<u>312</u> 198,938
Datance as of December 31, 2013	13,037	441,041	(13,433)	(220,000)	131,000	7,200	130,330

		Held in	
Common Stock Share Activity	Issued	Treasury	Outstanding
		(millions of shares)	
Balance as of December 31, 2016	8,019	(3,871)	4,148
Acquisitions	-	(10)	(10)
Issued for acquisitions	-	96	96
Dispositions	-	5	5
Balance as of December 31, 2017	8,019	(3,780)	4,239
Acquisitions	-	(8)	(8)
Dispositions	-	6	6
Balance as of December 31, 2018	8,019	(3,782)	4,237
Acquisitions	-	(8)	(8)
Dispositions	-	5	5
Balance as of December 31, 2019	8,019	(3,785)	4,234

The information in the Notes to Consolidated Financial Statements is an integral part of these statements.

The accompanying consolidated financial statements and the supporting and supplemental material are the responsibility of the management of Exxon Mobil Corporation.

The Corporation's principal business involves exploration for, and production of, crude oil and natural gas and manufacture, trade, transport and sale of crude oil, natural gas, petroleum products, petrochemicals and a wide variety of specialty products.

The preparation of financial statements in conformity with U.S. Generally Accepted Accounting Principles (GAAP) requires management to make estimates that affect the reported amounts of assets, liabilities, revenues and expenses and the disclosure of contingent assets and liabilities. Actual results could differ from these estimates. Prior years' data has been reclassified in certain cases to conform to the 2019 presentation basis.

1. Summary of Accounting Policies

Principles of Consolidation and Accounting for Investments

The Consolidated Financial Statements include the accounts of subsidiaries the Corporation controls. They also include the Corporation's share of the undivided interest in certain upstream assets, liabilities, revenues and expenses. Amounts representing the Corporation's interest in entities that it does not control, but over which it exercises significant influence, are included in "Investments, advances and long-term receivables". The Corporation's share of the net income of these companies is included in the Consolidated Statement of Income caption "Income from equity affiliates".

Majority ownership is normally the indicator of control that is the basis on which subsidiaries are consolidated. However, certain factors may indicate that a majority-owned investment is not controlled and therefore should be accounted for using the equity method of accounting. These factors occur where the minority shareholders are granted by law or by contract substantive participating rights. These include the right to approve operating policies, expense budgets, financing and investment plans, and management compensation and succession plans.

Evidence of loss in value that might indicate impairment of investments in companies accounted for on the equity method is assessed to determine if such evidence represents a loss in value that is other than temporary. Examples of key indicators include a history of operating losses, negative earnings and cash flow outlook, significant downward revisions to oil and gas reserves, and the financial condition and prospects for the investee's business segment or geographic region. If evidence of an other than temporary loss in fair value below carrying amount is determined, an impairment is recognized. In the absence of market prices for the investment, discounted cash flows are used to assess fair value.

Investments in equity securities other than consolidated subsidiaries and equity method investments are measured at fair value with changes in fair value recognized in net income. The Corporation uses the modified approach for equity securities that do not have a readily determinable fair value. This modified approach measures investments at cost minus impairment, if any, plus or minus changes resulting from observable price changes in orderly transactions in a similar investment of the same issuer.

The Corporation's share of the cumulative foreign exchange translation adjustment for equity method investments is reported in "Accumulated other comprehensive income".

Revenue Recognition

The Corporation generally sells crude oil, natural gas and petroleum and chemical products under short-term agreements at prevailing market prices. In some cases (e.g., natural gas), products may be sold under long-term agreements, with periodic price adjustments to reflect market conditions. Revenue is recognized at the amount the Corporation expects to receive when the customer has taken control, which is typically when title transfers and the customer has assumed the risks and rewards of ownership. The prices of certain sales are based on price indices that are sometimes not available until the next period. In such cases, estimated realizations are accrued when the sale is recognized, and are finalized when the price is available. Such adjustments to revenue from performance obligations satisfied in previous periods are not significant. Payment for revenue transactions is typically due within 30 days. Future volume delivery obligations that are unsatisfied at the end of the period are expected to be fulfilled through ordinary production or purchases. These performance obligations are based on market prices at the time of the transaction and are fully constrained due to market price volatility.

Purchases and sales of inventory with the same counterparty that are entered into in contemplation of one another are combined and recorded as exchanges measured at the book value of the item sold.

"Sales and other operating revenue" and "Notes and accounts receivable" primarily arise from contracts with customers. Long-term receivables are primarily from non-customers. Contract assets are mainly from marketing assistance programs and are not significant. Contract liabilities are mainly customer prepayments and accruals of expected volume discounts and are not significant.

Income and Other Taxes

The Corporation excludes from the Consolidated Statement of Income certain sales and value-added taxes imposed on and concurrent with revenue-producing transactions with customers and collected on behalf of governmental authorities. Similar taxes, for which the Corporation is not considered to be an agent for the government, are reported on a gross basis (included in both "Sales and other operating revenue" and "Other taxes and duties").

The Corporation accounts for U.S. tax on global intangible low-taxed income as an income tax expense in the period in which it is incurred.

Derivative Instruments

The Corporation may use derivative instruments for trading purposes and to offset exposures associated with commodity prices, foreign currency exchange rates and interest rates that arise from existing assets, liabilities, firm commitments and forecasted transactions. All derivative instruments, except those designated as normal purchase and normal sale, are recorded at fair value. Derivative assets and liabilities with the same counterparty are netted if the right of offset exists and certain other criteria are met. Collateral payables or receivables are netted against derivative assets and derivative liabilities, respectively.

Recognition and classification of the gain or loss that results from adjusting a derivative to fair value depends on the purpose for the derivative. All gains and losses from derivative instruments for which the Corporation does not apply hedge accounting are immediately recognized in earnings. We may designate derivatives as fair value or cash flow hedges. For fair value hedges, the gain or loss from derivative instruments and the offsetting gain or loss from the hedged item are recognized in earnings. For cash flow hedges, the gain or loss from the derivative instrument is initially reported as a component of other comprehensive income and subsequently reclassified into earnings in the period that the forecasted transaction affects earnings.

Fair Value

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. Hierarchy Levels 1, 2 and 3 are terms for the priority of inputs to valuation techniques used to measure fair value. Hierarchy Level 1 inputs are quoted prices in active markets for identical assets or liabilities. Hierarchy Level 2 inputs are inputs other than quoted prices included within Level 1 that are directly or indirectly observable for the asset or liability. Hierarchy Level 3 inputs are inputs that are not observable in the market.

Inventories

Crude oil, products and merchandise inventories are carried at the lower of current market value or cost (generally determined under the last-in, first-out method – LIFO). Inventory costs include expenditures and other charges (including depreciation) directly and indirectly incurred in bringing the inventory to its existing condition and location. Selling expenses and general and administrative expenses are reported as period costs and excluded from inventory cost. Inventories of materials and supplies are valued at cost or less.

Property, Plant and Equipment

Cost Basis. The Corporation uses the "successful efforts" method to account for its exploration and production activities. Under this method, costs are accumulated on a field-by-field basis. Costs incurred to purchase, lease, or otherwise acquire a property (whether unproved or proved) are capitalized when incurred. Exploratory well costs are carried as an asset when the well has found a sufficient quantity of reserves to justify its completion as a producing well and where the Corporation is making sufficient progress assessing the reserves and the economic and operating viability of the project. Exploratory well costs not meeting these criteria are charged to expense. Other exploratory expenditures, including geophysical costs and annual lease rentals, are expensed as incurred. Development costs, including costs of productive wells and development dry holes, are capitalized.

Depreciation, Depletion and Amortization. Depreciation, depletion and amortization are primarily determined under either the unit-of-production method or the straight-line method, which is based on estimated asset service life taking obsolescence into consideration.

Acquisition costs of proved properties are amortized using a unit-of-production method, computed on the basis of total proved oil and gas reserves. Capitalized exploratory drilling and development costs associated with productive depletable extractive properties are amortized using the unit-of-production rates based on the amount of proved developed reserves of oil and gas that are estimated to be recoverable from existing facilities using current operating methods. Under the unit-of-production method, oil and gas volumes are considered produced once they have been measured through meters at custody transfer or sales transaction points at the outlet valve on the lease or field storage tank. In the event that the unit-of-production method does not result in an equitable allocation of cost over the economic life of an upstream asset, an alternative method is used. The straight-line method is used in limited situations where the expected life of the asset does not reasonably correlate with that of the underlying reserves. For example, certain assets used in the production of oil and natural gas have a shorter life than the reserves, and as such, the Corporation uses straight-line depreciation to ensure the asset is fully depreciated by the end of its useful life.

To the extent that proved reserves for a property are substantially de-booked and that property continues to produce such that the resulting depreciation charge does not result in an equitable allocation of cost over the expected life, assets will be depreciated using a unit-of-production method based on reserves determined at the most recent SEC price which results in a more meaningful quantity of proved reserves, appropriately adjusted for production and technical changes.

Investments in refinery, chemical process, and lubes basestock manufacturing equipment are generally depreciated on a straight-line basis over a 25-year life. Service station buildings and fixed improvements generally are depreciated over a 20-year life. Maintenance and repairs, including planned major maintenance, are expensed as incurred. Major renewals and improvements are capitalized and the assets replaced are retired.

Impairment Assessment. The Corporation tests assets or groups of assets for recoverability on an ongoing basis whenever events or changes in circumstances indicate that the carrying amounts may not be recoverable. Among the events or changes in circumstances which could indicate that the carrying value of an asset or asset group may not be recoverable are the following:

- a significant decrease in the market price of a long-lived asset;
- a significant adverse change in the extent or manner in which an asset is being used or in its physical condition including a significant decrease in current and projected reserve volumes;
- a significant adverse change in legal factors or in the business climate that could affect the value, including an adverse action or assessment by a regulator;
- an accumulation of project costs significantly in excess of the amount originally expected;
- a current-period operating loss combined with a history and forecast of operating or cash flow losses; and
- a current expectation that, more likely than not, a long-lived asset will be sold or otherwise disposed of significantly before the end of its previously estimated useful life.

Asset valuation analysis, profitability reviews and other periodic control processes assist the Corporation in assessing whether events or changes in circumstances indicate the carrying amounts of any of its assets may not be recoverable.

In general, the Corporation does not view temporarily low prices or margins as an indication of impairment. Management believes that prices over the long term must be sufficient to generate investments in energy supply to meet global demand. Although prices will occasionally drop significantly, industry prices over the long term will continue to be driven by market supply and demand fundamentals. On the supply side, industry production from mature fields is declining. This is being offset by investments to generate production from new discoveries, field developments and technology and efficiency advancements. OPEC investment activities and production policies also have an impact on world oil supplies. The demand side is largely a function of general economic activities and levels of prosperity. Because the lifespans of the vast majority of the Corporation's major assets are measured in decades, the value of these assets is predominantly based on long-term views of future commodity prices and development and production costs. During the lifespan of these major assets, the Corporation expects that oil and gas prices will experience significant volatility, and consequently these assets will experience periods of higher earnings and periods of lower earnings, or even losses.

In assessing whether the events or changes in circumstances indicate the carrying value of an asset may not be recoverable, the Corporation considers recent periods of operating losses in the context of its longer-term view of prices. While near-term prices are subject to wide fluctuations, longer-term price views are more stable and meaningful for purposes of assessing future cash flows.

When the industry experiences a prolonged and deep reduction in commodity prices, the market supply and demand conditions may result in changes to the Corporation's long-term price or margin assumptions it uses for its capital investment decisions. To the extent those changes result in a significant reduction to its long-term oil price, natural gas price or margin ranges, the Corporation may consider that situation, in conjunction with other events or changes in circumstances such as a history of operating losses, an indicator of potential impairment for certain assets.

In the Upstream, the standardized measure of discounted cash flows included in the Supplemental Information on Oil and Gas Exploration and Production activities is required to use prices based on the average of first-of-month prices. These prices represent discrete points in time and could be higher or lower than the Corporation's long-term price assumptions which are used for impairment assessments. The Corporation believes the standardized measure does not provide a reliable estimate of the expected future cash flows to be obtained from the development and production of its oil and gas properties or of the value of its oil and gas reserves and therefore does not consider it relevant in determining whether events or changes in circumstances indicate the need for an impairment assessment.

The Corporation has a robust process to monitor for indicators of potential impairment across its asset groups throughout the year. This process is aligned with the requirements of ASC 360 and relies in part on the Corporation's planning and budgeting cycle. If events or changes in circumstances indicate that the carrying value of an asset may not be recoverable, the Corporation estimates the future undiscounted cash flows of the affected properties to judge the recoverability of carrying amounts. In performing this assessment, assets are grouped at the lowest level for which there are identifiable cash flows that are largely independent of the cash flows of other groups of assets. Cash flows used in recoverability assessments are based on the Corporation's assumptions which are developed in the annual planning and budgeting process, and are consistent with the criteria management uses to evaluate investment opportunities. These evaluations make use of the Corporation's assumptions of future capital allocations, crude oil and natural gas commodity prices including price differentials, refining and chemical margins, volumes, development and operating costs, and foreign currency exchange rates. Volumes are based on projected field and facility production profiles, throughput, or sales. Management's estimate of upstream production volumes used for projected cash flows makes use of proved reserve quantities and may include risk-adjusted unproved reserve quantities. Cash flow estimates for impairment testing exclude the effects of derivative instruments.

An asset group is impaired if its estimated undiscounted cash flows are less than the asset's carrying value. Impairments are measured by the amount by which the carrying value exceeds fair value. Fair value is based on market prices if an active market exists for the asset group, or discounted cash flows using a discount rate commensurate with the risk. Significant unproved properties are assessed for impairment individually, and valuation allowances against the capitalized costs are recorded based on the estimated economic chance of success and the length of time that the Corporation expects to hold the properties. Properties that are not individually significant are aggregated by groups and amortized based on development risk and average holding period.

Other. Gains on sales of proved and unproved properties are only recognized when there is neither uncertainty about the recovery of costs applicable to any interest retained nor any substantial obligation for future performance by the Corporation. Losses on properties sold are recognized when incurred or when the properties are held for sale and the fair value of the properties is less than the carrying value.

Interest costs incurred to finance expenditures during the construction phase of multiyear projects are capitalized as part of the historical cost of acquiring the constructed assets. The project construction phase commences with the development of the detailed engineering design and ends when the constructed assets are ready for their intended use. Capitalized interest costs are included in property, plant and equipment and are depreciated over the service life of the related assets.

Asset Retirement Obligations and Environmental Liabilities

The Corporation incurs retirement obligations for certain assets. The fair values of these obligations are recorded as liabilities on a discounted basis, which is typically at the time the assets are installed. The costs associated with these liabilities are capitalized as part of the related assets and depreciated. Over time, the liabilities are accreted for the change in their present value.

Liabilities for environmental costs are recorded when it is probable that obligations have been incurred and the amounts can be reasonably estimated. These liabilities are not reduced by possible recoveries from third parties, and projected cash expenditures are not discounted.

Foreign Currency Translation

The Corporation selects the functional reporting currency for its international subsidiaries based on the currency of the primary economic environment in which each subsidiary operates.

Downstream and Chemical operations primarily use the local currency. However, the U.S. dollar is used in countries with a history of high inflation (primarily in Latin America) and Singapore, which predominantly sells into the U.S. dollar export market. Upstream operations which are relatively self-contained and integrated within a particular country, such as Canada, the United Kingdom, Norway and continental Europe, use the local currency. Some Upstream operations, primarily in Asia and Africa, use the U.S. dollar because they predominantly sell crude and natural gas production into U.S. dollar-denominated markets.

For all operations, gains or losses from remeasuring foreign currency transactions into the functional currency are included in income.

2. Accounting Changes

Effective January 1, 2019, the Corporation adopted the Financial Accounting Standards Board's Standard, *Leases (Topic 842)*, as amended. The standard requires all leases to be recorded on the balance sheet as a right of use asset and a lease liability. The Corporation used a transition method that applies the new lease standard at January 1, 2019. The Corporation applied a policy election to exclude short-term leases from balance sheet recognition and also elected certain practical expedients at adoption. As permitted, the Corporation did not reassess whether existing contracts are or contain leases, the lease classification for any existing leases, initial direct costs for any existing lease and whether existing land easements and rights of way, which were not previously accounted for as leases, are or contain a lease. At adoption on January 1, 2019, an operating lease liability of \$3.3 billion was recorded and the operating lease right of use asset was \$4.3 billion, including \$1.0 billion of previously recorded prepaid leases. There was no cumulative earnings effect adjustment.

Effective January 1, 2020, the Corporation adopted the Financial Accounting Standards Board's update, *Financial Instruments – Credit Losses (Topic 326)*, as amended. The standard requires a valuation allowance for credit losses be recognized for certain financial assets that reflects the current expected credit loss over the asset's contractual life. The valuation allowance considers the risk of loss, even if remote, and considers past events, current conditions and expectations of the future. The standard is not expected to have a material impact on the Corporation's financial statements.

3. Miscellaneous Financial Information

Research and development expenses totaled \$1,214 million in 2019, \$1,116 million in 2018, and \$1,063 million in 2017.

Net income included before-tax aggregate foreign exchange transaction losses of \$104 million and \$138 million in 2019 and 2018, respectively, and a gain of \$6 million in 2017.

In 2019, 2018, and 2017, net income included gains of \$523 million and \$107 million, and a loss of \$10 million, respectively, attributable to the combined effects of LIFO inventory accumulations and drawdowns. The aggregate replacement cost of inventories was estimated to exceed their LIFO carrying values by \$9.7 billion and \$8.2 billion at December 31, 2019, and 2018, respectively.

Crude oil, products and merchandise as of year-end 2019 and 2018 consist of the following:

	2019	2018
	(millions	of dollars)
Crude oil	5,111	4,783
Petroleum products	5,281	5,666
Chemical products	3,240	3,821
Gas/other	378	533
Total	14,010	14,803
76		

4. Other Comprehensive Income Information

ExxonMobil Share of Accumulated Other Comprehensive Income	i E Tr	mulative 'oreign xchange anslation justment	Post- retirement Benefits Reserves Adjustment	Total
		,	(millions of dollars)	
Balance as of December 31, 2016 Current period change excluding amounts reclassified from accumulated other comprehensive income	(14,501) 4,879	(7,738)	(22,239) 4,709
Amounts reclassified from accumulated other comprehensive income		140	(170) 1,128	1,268
Total change in accumulated other comprehensive income Balance as of December 31, 2017		5,019 (9,482)	958 (6,780)	5,977 (16,262)
Current period change excluding amounts reclassified from accumulated other comprehensive income Amounts reclassified from accumulated other		(4,595)	201	(4,394)
comprehensive income Total change in accumulated other comprehensive income		196 (4,399)	896 1,097	1,092 (3,302)
Balance as of December 31, 2018	(13,881)	(5,683)	(19,564)
Current period change excluding amounts reclassified from accumulated other comprehensive income Amounts reclassified from accumulated other		1,435	(1,927)	(492)
comprehensive income Total change in accumulated other comprehensive income		- 1,435	563 (1,364)	563 71
Balance as of December 31, 2019		12,446)	(7,047)	(19,493)
Amounts Reclassified Out of Accumulated Other Comprehensive Income - Before-tax Income/(Expense)	2	019	2018	2017
			(millions of dollars)	
Foreign exchange translation gain/(loss) included in net income (Statement of Income line: Other income) Amortization and settlement of postretirement benefits reserves adjustment included in net periodic benefit costs		-	(196)	(234)
(Statement of Income line: Non-service pension and postretirement benefit expense)		(751)	(1,208)	(1,656)
Income Tax (Expense)/Credit For Components of Other Comprehensive Income	20	19	2018	2017
·			(millions of dollars)	
Foreign exchange translation adjustment Postretirement benefits reserves adjustment (excluding amortization) Amortization and settlement of postretirement benefits reserves		88 719	32 (193)	67 201
adjustment included in net periodic benefit costs Total		(169) 638	(277)	(491) (223)
	77	200	(100)	(223)

5. Cash Flow Information

The Consolidated Statement of Cash Flows provides information about changes in cash and cash equivalents. Highly liquid investments with maturities of three months or less when acquired are classified as cash equivalents.

For 2019, the "Net (gain) on asset sales" on the Consolidated Statement of Cash Flows includes before-tax amounts from the sale of non-operated upstream assets in Norway and upstream asset transactions in the U.S. For 2018, the number includes before-tax amounts from the sale of service stations in Germany, the divestment of the Augusta refinery in Italy, and the sale of an undeveloped upstream property in Australia. For 2017, the number includes before-tax amounts from the sale of service stations in multiple countries, upstream asset transactions in the U.S., and the sale of ExxonMobil's operated upstream business in Norway. These net gains are reported in "Other income" on the Consolidated Statement of Income.

In 2019, the "Additions/(reductions) in commercial paper, and debt with three months or less maturity" on the Consolidated Statement of Cash Flows includes a net \$4.6 billion addition of commercial paper with maturity over three months. The gross amount issued was \$18.9 billion, while the gross amount repaid was \$14.3 billion. In 2018, the number includes a net \$275 million addition of commercial paper with maturity over three months. The gross amount issued was \$4.0 billion, while the gross amount repaid was \$3.8 billion. In 2017, the number includes a net \$121 million repayment of commercial paper with maturity over three months. The gross amount issued was \$3.6 billion, while the gross amount repaid was \$3.7 billion.

In 2017, the Corporation completed the acquisitions of InterOil Corporation, mostly unproved properties in Papua New Guinea, for \$2.7 billion and of companies that own mostly unproved oil and gas properties in the Permian Basin and other assets for \$6.2 billion. These transactions included a significant noncash component associated with the issuance of a total of 96 million shares of Exxon Mobil Corporation common stock in acquisition consideration, having a total acquisition date value of \$7.8 billion.

	2019	2018	2017	
		(millions of dollars)		
Income taxes paid Cash interest paid	7,018	9,294	7,510	
Included in cash flows from operating activities	560	303	383	
Capitalized, included in cash flows from investing activities	731	652	749	
Total cash interest paid	1,291	955	1,132	

6. Additional Working Capital Information

	Dec. 31	Dec. 31
	2019	2018
	(millions of	of dollars)
Notes and accounts receivable		
Trade, less reserves of \$34 million and \$61 million	21,100	19,638
Other, less reserves of \$371 million and \$339 million	5,866	5,063
Total	26,966	24,701
Notes and loans payable		
Bank loans	316	325
Commercial paper	18,561	12,863
Long-term debt due within one year	1,701	4,070
Total	20,578	17,258
Accounts payable and accrued liabilities		
Trade payables	24,694	21,063
Payables to equity companies	6,825	6,863
Accrued taxes other than income taxes	3,301	3,280
Other	7,011	6,062
Total	41,831	37,268

The Corporation has short-term committed lines of credit of \$7.9 billion which were unused as of December 31, 2019. These lines are available for general corporate purposes.

The weighted-average interest rate on short-term borrowings outstanding was 1.7 percent and 2.4 percent at December 31, 2019, and 2018, respectively.

7. Equity Company Information

The summarized financial information below includes amounts related to certain less-than-majority-owned companies and majority-owned subsidiaries where minority shareholders possess the right to participate in significant management decisions (see Note 1). These companies are primarily engaged in oil and gas exploration and production, and natural gas marketing in North America; natural gas exploration, production and distribution in Europe; liquefied natural gas (LNG) operations and transportation of crude oil in Africa; and exploration, production, LNG operations, and the manufacture and sale of petroleum and petrochemical products in Asia and the Middle East. Also included are several refining, petrochemical manufacturing and marketing ventures.

The share of total equity company revenues from sales to ExxonMobil consolidated companies was 13 percent, 14 percent and 15 percent in the years 2019, 2018 and 2017, respectively.

The Corporation's ownership in these ventures is in the form of shares in corporate joint ventures as well as interests in partnerships. Differences between the company's carrying value of an equity investment and its underlying equity in the net assets of the affiliate are assigned to the extent practicable to specific assets and liabilities based on the company's analysis of the factors giving rise to the difference. The amortization of this difference, as appropriate, is included in "Income from equity affiliates" on the Consolidated Statement of Income.

	2019)	2018	3	2	017
Equity Company		ExxonMobil		ExxonMobil		ExxonMobil
Financial Summary	Total	Share	Total	Share	Total	Share
			(millions of	dollars)		
Total revenues	102,365	31,240	112,938	34,539	94,791	29,340
Income before income taxes	29,424	7,927	37,203	10,482	29,748	8,498
Income taxes	9,725	2,500	11,568	3,151	8,421	2,236
Income from equity affiliates	19,699	5,427	25,635	7,331	21,327	6,262
Current assets	36,035	12,661	38,670	13,394	35,367	12,050
Long-term assets	143,321	40,001	128,830	35,970	122,221	34,931
Total assets	179,356	52,662	167,500	49,364	157,588	46,981
Current liabilities	24,583	6,939	27,324	7,606	21,725	6,348
Long-term liabilities	61,022	18,158	56,913	17,109	59,736	17,056
Net assets	93,751	27,565	83,263	24,649	76,127	23,577

A list of significant equity companies as of December 31, 2019, together with the Corporation's percentage ownership interest, is detailed below:

	Percentag Ownershij Interest
Upstream	
Aera Energy LLC	48
Barzan Gas Company Limited	7
BEB Erdgas und Erdoel GmbH & Co. KG	50
Cameroon Oil Transportation Company S.A.	41
Caspian Pipeline Consortium - Kazakhstan	8
Coral FLNG, S.A.	25
Cross Timbers Energy, LLC	50
Golden Pass Pipeline LLC	30
Golden Pass LNG Terminal LLC	30
Marine Well Containment Company LLC	10
Mozambique Rovuma Venture, S.p.A.	36
Nederlandse Aardolie Maatschappij B.V.	50
Papua New Guinea Liquefied Natural Gas Global Company LDC	33
Permian Highway Pipeline LLC	20
Qatar Liquefied Gas Company Limited	10
Qatar Liquefied Gas Company Limited (2)	24
Ras Laffan Liquefied Natural Gas Company Limited	25
Ras Laffan Liquefied Natural Gas Company Limited (II)	31
Ras Laffan Liquefied Natural Gas Company Limited (3)	30
South Hook LNG Terminal Company Limited	24
Tengizchevroil, LLP	25
Terminale GNL Adriatico S.r.l.	71
Downstream	
Alberta Products Pipe Line Ltd.	45
Fujian Refining & Petrochemical Co. Ltd.	25
Permian Express Partners LLC	12
Saudi Aramco Mobil Refinery Company Ltd.	50
Chemical	
Al-Jubail Petrochemical Company	50
Gulf Coast Growth Ventures LLC	50
Infineum Italia s.r.l.	50
Infineum Singapore LLP	50
Saudi Yanbu Petrochemical Co.	50

8. Investments, Advances and Long-Term Receivables

	Dec. 31,	Dec. 31,	
	2019	2018	
	(millions o	f dollars)	
Equity method company investments and advances			
Investments	29,291	26,382	
Advances	8,542	8,608	
Total equity method company investments and advances	37,833	34,990	
Equity securities carried at fair value and other investments at adjusted cost basis	190	210	
Long-term receivables and miscellaneous, net of reserves of \$5,643 million and \$5,471 million	5,141	5,590	
Total	43,164	40,790	

9. Property, Plant and Equipment and Asset Retirement Obligations

	December 31, 2019			December 31, 2018	
Property, Plant and Equipment	Cost	Net	Cost	Net	
	(millions of dollars)				
Upstream	376,041	196,767	372,791	194,662	
Downstream	52,527	24,506	48,241	21,448	
Chemical	40,788	21,260	39,008	20,551	
Other	17,346	10,485	17,150	10,440	
Total	486,702	253,018	477,190	247,101	

The Corporation has a robust process to monitor for indicators of potential impairment across its asset groups throughout the year. This process is aligned with the requirements of ASC 360 and relies in part on the Corporation's planning and budgeting cycle. In 2019, 2018 and 2017, the before-tax impairment charges were \$0.1 billion, \$0.7 billion and \$2.0 billion, respectively.

Accumulated depreciation and depletion totaled \$233,684 million at the end of 2019 and \$230,089 million at the end of 2018. Interest capitalized in 2019, 2018 and 2017 was \$731 million, \$652 million and \$749 million, respectively.

Asset Retirement Obligations

The Corporation incurs retirement obligations for certain assets. The fair values of these obligations are recorded as liabilities on a discounted basis, which is typically at the time the assets are installed. In the estimation of fair value, the Corporation uses assumptions and judgments regarding such factors as the existence of a legal obligation for an asset retirement obligation; technical assessments of the assets; estimated amounts and timing of settlements; discount rates; and inflation rates. Asset retirement obligations incurred in the current period were Level 3 fair value measurements. The costs associated with these liabilities are capitalized as part of the related assets and depreciated as the reserves are produced. Over time, the liabilities are accreted for the change in their present value.

Asset retirement obligations for downstream and chemical facilities generally become firm at the time the facilities are permanently shut down and dismantled. These obligations may include the costs of asset disposal and additional soil remediation. However, these sites have indeterminate lives based on plans for continued operations and as such, the fair value of the conditional legal obligations cannot be measured, since it is impossible to estimate the future settlement dates of such obligations.

The following table summarizes the activity in the liability for asset retirement obligations:

	2019	2018
	(millions o	f dollars)
Beginning balance	12,103	12,705
Accretion expense and other provisions	649	681
Reduction due to property sales	(1,085)	(333)
Payments made	(827)	(600)
Liabilities incurred	89	46
Foreign currency translation	84	(481)
Revisions	267	85
Ending balance	11,280	12,103

The long-term Asset Retirement Obligations were \$10,279 million and \$11,185 million at December 31, 2019, and 2018, respectively, and are included in "Other long-term obligations."

10. Accounting for Suspended Exploratory Well Costs

The Corporation continues capitalization of exploratory well costs when the well has found a sufficient quantity of reserves to justify its completion as a producing well and the Corporation is making sufficient progress assessing the reserves and the economic and operating viability of the project. The term "project" as used in this report can refer to a variety of different activities and does not necessarily have the same meaning as in any government payment transparency reports.

The following two tables provide details of the changes in the balance of suspended exploratory well costs as well as an aging summary of those costs.

Change in capitalized suspended exploratory well costs:

	2019	2018	2017
		(millions of dollars)	
Balance beginning at January 1	4,160	3,700	4,477
Additions pending the determination of proved reserves	532	564	906
Charged to expense	(46)	(7)	(1,205)
Reclassifications to wells, facilities and equipment based on the			
determination of proved reserves	(37)	(48)	(497)
Divestments/Other	4	(49)	19
Ending balance at December 31	4,613	4,160	3,700
Ending balance attributed to equity companies included above	306	306	306
Period end capitalized suspended exploratory well costs:			
	2019	2018	2017
		(millions of dollars)	
Capitalized for a period of one year or less	532	564	906
Capitalized for a period of between one and five years	2,206	2,028	1,345
Capitalized for a period of between five and ten years	1,411	1,150	1,064
Capitalized for a period of greater than ten years	464	418	385
Capitalized for a period greater than one year - subtotal	4,081	3,596	2,794
Total	4,613	4,160	3,700

Exploration activity often involves drilling multiple wells, over a number of years, to fully evaluate a project. The table below provides a breakdown of the number of projects with only exploratory well costs capitalized for a period of one year or less and those that have had exploratory well costs capitalized for a period greater than one year.

	2019	2018	2017
Number of projects that only have exploratory well costs capitalized for a period			
of one year or less	4	6	11
Number of projects that have exploratory well costs capitalized for a period			
greater than one year	46	52	46
Total	50	58	57

Of the 46 projects that have exploratory well costs capitalized for a period greater than one year as of December 31, 2019, 14 projects have drilling in the preceding year or exploratory activity planned in the next two years, while the remaining 32 projects are those with completed exploratory activity progressing toward development.

The table below provides additional detail for those 32 projects, which total \$3,176 million.

	Dec. 31,	Years Wells Drilled /	
Country/Project	2019	Acquired	Comment
	of dollars)	- 1	
Angola	• •		
- AB32 Central NE Hub	69	2006-2014	Evaluating development plan for tieback to existing production facilities.
- Kaombo Split Hub Phase 2	20	2005 - 2006	Evaluating development plan to tie into planned production facilities.
Argentina	• •		
- La Invernada	72	2014	Evaluating development plan to tie into planned infrastructure.
Australia			
- East Pilchard	7	2001	Gas field near Kipper/Tuna development, awaiting capacity in existing/ planned infrastructure.
- Gorgon Area Ullage	315	1994 - 2015	Evaluating development plans to tie into existing LNG facilities.
- SE Longtom	10	2010	Gas field near Tuna development, awaiting capacity in existing/planned infrastructure.
- SE Remora	32	2010	Gas field near Marlin development, awaiting capacity in existing/planned infrastructure.
Guyana			
- Payara	120	2017 - 2018	Continuing development plan discussions with the government.
Iraq			
- Kurdistan Pirmam	109	2015	Evaluating commercialization alternatives, while waiting for government approval to enter Gas Holding Period.
Kazakhstan			
- Kairan	53	2004 - 2007	Evaluating commercialization and field development alternatives, while continuing discussions with the government regarding the development plan.
Mozambique			
- Rovuma LNG Future Non-Straddling Train	120	2017	Evaluating/progressing development plan to tie into planned LNG facilities.
- Rovuma LNG Phase 1	150	2017	Progressing development plan to tie into planned LNG facilities.
- Rovuma LNG Unitized Trains	35	2017	Evaluating/progressing development plan to tie into planned LNG facilities.
Nigeria			
- Bolia	15	2002 - 2006	Evaluating development plan, while continuing discussions with the government regarding regional hub strategy.
- Bonga North	34	2004 - 2009	Evaluating/progressing development plan for tieback to existing/planned infrastructure.
- Bosi	79	2002 - 2006	Development activity under way, while continuing discussions with the government regarding development plan.
- Bosi Central	16	2006	Development activity under way, while continuing discussions with the government regarding development plan.
- Erha Northeast	26	2008	Evaluating development plan for tieback to existing production facilities.
- OML 138 Ukot SS	13	2015	Evaluating development plan for tieback to existing production facilities.
- OML 138 Ukot SW	41	2014	Evaluating development plan for tieback to existing production facilities.
- Pegi	32	2009	Awaiting capacity in existing/planned infrastructure.
- Satellite Field Development Phase 2	12	2013	Evaluating development plan to tie into planned production facilities.
- Other (4 projects)	10	2001 - 2002	Evaluating and pursuing development of several additional discoveries.

		Years Wells	
	Dec. 31,	Drilled /	
Country/Project	2019	Acquired	Comment
(millions of	dollars)		
Papua New Guinea			
- Papua LNG	246	2017	Evaluating/progressing development plans.
- P'nyang	115	2012-2018	Evaluating/progressing development plans.
Republic of Congo			
- Mer Tres Profonde Sud	56	2000 - 2007	Evaluating development alternatives, while continuing discussions with the government regarding development plan.
Romania		L	
- Neptun Deep	536	2012-2016	Continuing discussions with the government regarding development plan.
Tanzania			
- Tanzania Block 2	537	2012-2018	Evaluating development alternatives while continuing discussions with the government regarding development plan.
Vietnam			
- Blue Whale	296	2011 - 2015	Evaluating/progressing development plans.
Total 2019 (32 projects)	3,176		
			85

11. Leases

The Corporation and its consolidated affiliates generally purchase the property, plant and equipment used in operations, but there are situations where assets are leased, primarily for drilling equipment, tankers, office buildings, railcars, and other moveable equipment. Right of use assets and lease liabilities are established on the balance sheet for leases with an expected term greater than one year, by discounting the amounts fixed in the lease agreement for the duration of the lease which is reasonably certain, considering the probability of exercising any early termination and extension options. The portion of the fixed payment related to service costs for drilling equipment, tankers and finance leases is excluded from the calculation of right of use assets and lease liabilities. Generally assets are leased only for a portion of their useful lives, and are accounted for as operating leases. In limited situations assets are leased for nearly all of their useful lives, and are accounted for as finance leases.

Variable payments under these lease agreements are not significant. Residual value guarantees, restrictions, or covenants related to leases, and transactions with related parties are also not significant. In general, leases are capitalized using the incremental borrowing rate of the leasing affiliate. The Corporation's activities as a lessor are not significant.

At adoption of the lease accounting change (see Note 2), on January 1, 2019, an operating lease liability of \$3.3 billion was recorded and the operating lease right of use asset was \$4.3 billion, including \$1.0 billion of previously recorded prepaid leases. There was no cumulative earnings effect adjustment.

	Operating Leases				
	Drilling Rigs				
	and Related			Finance	
	Equipment	Other	Total	Leases	
	(millions of dollars)				
Lease Cost		2019			
Operating lease cost	238	1,196	1,434		
Short-term and other (net of sublease rental income)	926	1,116	2,042		
Amortization of right of use assets				121	
Interest on lease liabilities				133	
Total	1,164	2,312	3,476	254	

	Operat	Operating Leases		
	Drilling Rigs			
	and Related			Finance
	Equipment	Other	Total	Leases
		(millions of doll	ars)	
Balance Sheet		December 31, 2	2019	
Right of use assets				
Included in Other assets, including intangibles - net	572	6,061	6,633	
Included in Property, plant and equipment - net				1,997
Total right of use assets	572	6,061	6,633	1,997
Lease liability due within one year				
Included in Accounts payable and accrued liabilities	221	990	1,211	15
Included in Notes and loans payable				84
Long-term lease liability				
Included in Other long-term obligations	330	4,152	4,482	
Included in Long-term debt				1,670
Included in Long-term obligations to equity companies				139
Total lease liability	551	5,142	5,693	1,908
86			<u> </u>	

	Operati	ng Leases		
	Drilling Rigs			
	and Related			Finance
	Equipment	Other	Total	Leases
		(millions of doll	ars)	
Maturity Analysis of Lease Liabilities		December 31, 2	019	
2020	234	1,127	1,361	271
2021	134	886	1,020	576
2022	73	625	698	174
2023	45	468	513	173
2024	30	425	455	172
2025 and beyond	72	2,681	2,753	2,446
Total lease payments	588	6,212	6,800	3,812
Discount to present value	(37)	(1,070)	(1,107)	(1,904)
Total lease liability	551	5,142	5,693	1,908
Weighted average remaining lease term - years	4	11	10	20
Weighted average discount rate - percent	3.1%	3.2%	3.2%	9.7%

In addition to the lease liabilities in the table immediately above, at December 31, 2019, undiscounted commitments for leases not yet commenced totaled \$848 million for operating leases and \$3,721 million for finance leases. The finance leases relate to floating production storage and offloading vessels, LNG transportation vessels, and a long-term hydrogen purchase agreement. The underlying assets for these finance leases were primarily designed by, and are being constructed by, the lessors.

	Operatin Drilling Rigs and Related Equipment	ng Leases Other	Total	Finance Leases
		(millions of doll	lars)	
Other Information		2019		
Cash paid for amounts included in the measurement of lease liabilities				
Cash flows from operating activities		1,116	1,116	54
Cash flows from investing activities	258		258	
Cash flows from financing activities				177
Noncash right of use assets recorded for lease liabilities				
For January 1 adoption of <i>Topic 842</i>	445	2,818	3,263	
In exchange for new lease liabilities during the period	350	3,313	3,663	422

Disclosures under the previous lease standard (ASC 840)

Net rental cost incurred under both cancelable and noncancelable operating leases was \$2,715 million in 2018 and \$2,618 million in 2017. At December 31, 2018, minimum undiscounted lease commitments under noncancelable operating leases and charters for 2019 and beyond were \$6,112 million.

12. Earnings Per Share

Earnings per common share	2019	2018	2017
Net income attributable to ExxonMobil (millions of dollars)	14,340	20,840	19,710
Weighted average number of common shares outstanding (millions of shares)	4,270	4,270	4,256
Earnings per common share (dollars) (1)	3.36	4.88	4.63
Dividends paid per common share (dollars)	3.43	3.23	3.06

(1) The earnings per common share and earnings per common share - assuming dilution are the same in each period shown.

13. Financial Instruments and Derivatives

Financial Instruments. The estimated fair value of financial instruments at December 31, 2019 and December 31, 2018, and the related hierarchy level for the fair value measurement is as follows:

				At Dec	ember 31, 2019			
				(millio	ons of dollars)			
		Fai	r Value				7.10	
	Level 1	Level 2	Level 3	Total Gross Assets & Liabilities	Effect of Counterparty Netting	Effect of Collateral Netting	Difference in Carrying Value and Fair Value	Net Carrying Value
Assets						0	· · · · · · · · · · · · · · · · · · ·	
Derivative assets (1) Advances to/receivables	533	102	-	635	(463)	(70)	-	102
from equity companies $(2)(7)$	-	1,941	6,729	8,670	-	-	(128)	8,542
Other long-term								
financial assets (3)	1,145	-	974	2,119	-	-	44	2,163
Liabilities								
Derivative liabilities (4)	568	70	-	638	(463)	(105)	-	70
Long-term debt (5)	25,652	134	3	25,789	-	-	(1,117)	24,672
Long-term obligations								
to equity companies (7)	-	-	4,245	4,245	-	-	(257)	3,988
Other long-term								
financial liabilities (6)	-	-	1,042	1,042	-	-	16	1,058
				At Dec	ember 31, 2018			

	(millions of dollars)							
	Fai	r Value						
Level 1	Level 2	Level 3	Total Gross Assets & Liabilities	Effect of Counterparty Netting	Effect of Collateral Netting	Difference in Carrying Value and Fair Value	Net Carrying Value	
207			207	(151)	(146)			
297	-	-	297	(151)	(140)	-	-	
-	2,100	6,293	8,393	-	-	215	8,608	
0.40		074	1 000			110	1.024	
848	-	974	1,822	-	-	112	1,934	
151	-	-	151	(151)	-	-	-	
19,029	117	4	19,150	-	-	85	19,235	
		4 330	4 330			52	4,382	
-	-	4,550	4,330	-	-	52	4,302	
-	-	1,046	1,046	-	-	(3)	1,043	
	297 - 848 151 19,029 -	Level 1 Level 2 297 - - 2,100 848 - 151 - 19,029 117 - -	297 - - - 2,100 6,293 848 - 974 151 - - 19,029 117 4 - - 4,330	Fair Value Level 1 Level 2 Level 3 Total Gross Assets & Liabilities 297 - - 297 - 2,100 6,293 8,393 848 - 974 1,822 151 - - 151 19,029 117 4 19,150 - - 4,330 4,330	Fair Value Level 1 Level 2 Level 3 Total Gross Assets Effect of Counterparty Netting 297 - - 297 (151) - 2,100 6,293 8,393 - 848 - 974 1,822 - 151 - - 151 (151) 19,029 117 4 19,150 - - - 4,330 4,330 -	Fair Value Total Gross Assets Effect of Counterparty Netting Effect of Collateral Netting 297 - - 297 (151) (146) - 2,100 6,293 8,393 - - 848 - 974 1,822 - - 151 - - 151 (151) - 19,029 117 4 19,150 - - - - 4,330 4,330 - -	Fair ValueLevel 1Level 2Level 3Total Gross Assets & LiabilitiesEffect of Counterparty NettingEffect of Collateral NettingDifference in Carrying Value and Fair Value297297(151)(146)2,1006,2938,393215848-9741,822112151151(151)19,029117419,15052	

(1) Included in the Balance Sheet lines: Notes and accounts receivable, less estimated doubtful amounts and Other assets, including intangibles, net

(2) Included in the Balance Sheet line: Investments, advances and long-term receivables

(3) Included in the Balance Sheet lines: Investments, advances and long term receivables and Other assets, including intangibles, net

(4) Included in the Balance Sheet lines: Accounts payable and accrued liabilities and Other long-term obligations

(5) Excluding finance lease obligations

(6) Included in the Balance Sheet line: Other long-term obligations

(7) Advances to/receivables from equity companies and long-term obligations to equity companies are mainly designated as hierarchy level 3 inputs. The fair value is calculated by discounting the remaining obligations by a rate consistent with the credit quality and industry of the company.

The increase in the estimated fair value and book value of long-term debt reflects the Corporation's issuance of \$7.0 billion of long-term debt in the third quarter of 2019.

Derivative Instruments. The Corporation's size, strong capital structure, geographic diversity and the complementary nature of the Upstream, Downstream and Chemical businesses reduce the Corporation's enterprise-wide risk from changes in commodity prices, currency rates and interest rates. In addition, the Corporation uses commodity-based contracts, including derivatives, to manage commodity price risk and for trading purposes. Commodity contracts held for trading purposes are presented in the Consolidated Statement of Income on a net basis in the line "Sales and other operating revenue". The Corporation's commodity derivatives are not accounted for under hedge accounting. At times, the Corporation also enters into currency and interest rate derivatives, none of which are material to the Corporation's financial position as of December 31, 2019 and 2018, or results of operations for the years ended 2019, 2018 and 2017.

Credit risk associated with the Corporation's derivative position is mitigated by several factors, including the use of derivative clearing exchanges and the quality of and financial limits placed on derivative counterparties. The Corporation maintains a system of controls that includes the authorization, reporting and monitoring of derivative activity.

At December 31, 2019, the net notional long/(short) position of derivative instruments was 57 million barrels for crude oil, (38) million barrels for products, and (165) million MMBtus of natural gas. At December 31, 2018, the net notional long/(short) position of derivative instruments was (19) million barrels for crude oil and was (9) million barrels for products.

Realized and unrealized gains/(losses) on derivative instruments that were recognized in the Consolidated Statement of Income are included in the following lines on a before-tax basis:

	2019	2018	2017
		(millions of dollars)	
Sales and other operating revenue	(412)	130	6
Crude oil and product purchases	179	(120)	(105)
Total	(233)	10	(99)

14. Long-Term Debt

At December 31, 2019, long-term debt consisted of \$25,710 million due in U.S. dollars and \$632 million representing the U.S. dollar equivalent at year-end exchange rates of amounts payable in foreign currencies. These amounts exclude that portion of long-term debt, totaling \$1,617 million, which matures within one year and is included in current liabilities. The increase in the book value of long-term debt reflects the Corporation's issuance of \$7.0 billion of long-term debt in the third quarter of 2019. The amounts of long-term debt, excluding finance lease obligations, maturing in each of the four years after December 31, 2020, in millions of dollars, are: 2021 – \$2,803; 2022 – \$3,316; 2023 – \$1,261; and 2024 – \$2,130. At December 31, 2019, the Corporation's unused long-term credit lines were \$0.2 billion.

Summarized long-term debt at year-end 2019 and 2018 are shown in the table below:

	Average Rate (1)	2019	2018
		(millions of	dollars)
Exxon Mobil Corporation			
1.912% notes due 2020		-	1,500
2.222% notes due 2021		2,500	2,500
2.397% notes due 2022 (Issued 2015)		1,150	1,150
1.902% notes due 2022 (Issued 2019)		750	-
Floating-rate notes due 2022 (Issued 2015)	2.792%	500	500
Floating-rate notes due 2022 (Issued 2019)	2.414%	750	-
2.726% notes due 2023		1,250	1,250
3.176% notes due 2024 (Issued 2014)		1,000	1,000
2.019% notes due 2024 (Issued 2019)		1,000	_,
2.709% notes due 2025		1,750	1,750
3.043% notes due 2026 (Issued 2016)		2,500	2,500
2.275% notes due 2026 (Issued 2019)		1,000	_,000
2.440% notes due 2029		1,250	_
2.995% notes due 2039		750	_
3.567% notes due 2045		1,000	1,000
4.114% notes due 2046		2,500	2,500
3.095% notes due 2049		1,500	_,000
XTO Energy Inc. (2)			
6.100% senior notes due 2036		193	195
6.750% senior notes due 2037		296	299
6.375% senior notes due 2038		229	230
Mobil Corporation			
8.625% debentures due 2021		250	250
Industrial revenue bonds due 2020-2051	1.388%	2,461	2,513
Other U.S. dollar obligations		89	102
Other foreign currency obligations		64	38
Finance lease obligations	9.518%	1,670	1,303
Debt issuance costs		(60)	(42
Total long-term debt		26,342	20,538

(1) Average effective interest rate for debt and average imputed interest rate for finance leases at December 31, 2019.

(2) Includes premiums of \$92 million in 2019 and \$97 million in 2018.

15. Incentive Program

The 2003 Incentive Program provides for grants of stock options, stock appreciation rights (SARs), restricted stock, and other forms of awards. Awards may be granted to eligible employees of the Corporation and those affiliates at least 50 percent owned. Outstanding awards are subject to certain forfeiture provisions contained in the program or award instrument. Options and SARs may be granted at prices not less than 100 percent of market value on the date of grant and have a maximum life of 10 years. The maximum number of shares of stock that may be issued under the 2003 Incentive Program is 220 million. Awards that are forfeited, expire, or are settled in cash, do not count against this maximum limit. The 2003 Incentive Program does not have a specified term. New awards may be made until the available shares are depleted, unless the Board terminates the plan early. At the end of 2019, remaining shares available for award under the 2003 Incentive Program were 76 million.

Restricted Stock and Restricted Stock Units. Awards totaling 8,936 thousand, 8,771 thousand, and 8,916 thousand of restricted (nonvested) common stock units were granted in 2019, 2018, and 2017, respectively. Compensation expense for these awards is based on the price of the stock at the date of grant and is recognized in income over the requisite service period. Shares for these awards are issued to employees from treasury stock. The units that are settled in cash are recorded as liabilities and their changes in fair value are recognized over the vesting period. During the applicable restricted periods, the shares and units may not be sold or transferred and are subject to forfeiture. The majority of the awards have graded vesting periods, with 50 percent of the shares and units in each award vesting after three years and the remaining 50 percent vesting after seven years. Awards granted to a small number of senior executives have vesting periods of five years for 50 percent of the award and of 10 years or retirement, whichever occurs later, for the remaining 50 percent of the award.

The Corporation has purchased shares in the open market and through negotiated transactions to offset shares or units settled in shares issued in conjunction with benefit plans and programs. Purchases may be discontinued at any time without prior notice.

The following tables summarize information about restricted stock and restricted stock units for the year ended December 31, 2019.

	2019			
	Weighted Average Grant-Date			
Shares	Fair Value	per Share		
(thousands)	(doll	ars)		
40,381	8	86.56		
8,799	2	77.66		
(9,427)	8	36.94		
(125)	8	35.35		
39,628	8	84.50		
2019	2018	2017		
68.77	77.66	81.89		
	(millions of dollars)			
559	620	667		
55	61	63		
614	681	730		
	(thousands) 40,381 8,799 (9,427) (125) 39,628 2019 68.77 559 55	Weighted Grant Shares Fair Value (thousands) (doll 40,381 8 40,381 8 8,799 2 (9,427) 8 39,628 8 2019 2018 68.77 77.66 (millions of dollars) 559 620 55 61		

As of December 31, 2019, there was \$1,754 million of unrecognized compensation cost related to the nonvested restricted awards. This cost is expected to be recognized over a weighted-average period of 4.4 years. The compensation cost charged against income for the restricted stock and restricted stock units was \$741 million, \$774 million, and \$856 million for 2019, 2018, and 2017, respectively. The income tax benefit recognized in income related to this compensation expense was \$51 million, \$42 million, and \$78 million for the same periods, respectively. The fair value of shares and units vested in 2019, 2018, and 2017 was \$647 million, \$722 million, and \$826 million, respectively. Cash payments of \$56 million, \$61 million, and \$64 million for vested restricted stock units settled in cash were made in 2019, 2018, and 2017, respectively.

16. Litigation and Other Contingencies

Litigation. A variety of claims have been made against ExxonMobil and certain of its consolidated subsidiaries in a number of pending lawsuits. Management has regular litigation reviews, including updates from corporate and outside counsel, to assess the need for accounting recognition or disclosure of these contingencies. The Corporation accrues an undiscounted liability for those contingencies where the incurrence of a loss is probable and the amount can be reasonably estimated. If a range of amounts can be reasonably estimated and no amount within the range is a better estimate than any other amount, then the minimum of the range is accrued. The Corporation does not record liabilities when the likelihood that the liability has been incurred is probable but the amount cannot be reasonably estimated or when the liability is believed to be only reasonably possible or remote. For contingencies where an unfavorable outcome is reasonably possible and which are significant, the Corporation discloses the nature of the contingency and, where feasible, an estimate of the possible loss. For purposes of our contingency disclosures, "significant" includes material matters, as well as other matters, which management believes should be disclosed. ExxonMobil will continue to defend itself vigorously in these matters. Based on a consideration of all relevant facts and circumstances, the Corporation does not believe the ultimate outcome of any currently pending lawsuit against ExxonMobil will have a material adverse effect upon the Corporation's operations, financial condition, or financial statements taken as a whole.

Other Contingencies. The Corporation and certain of its consolidated subsidiaries were contingently liable at December 31, 2019, for guarantees relating to notes, loans and performance under contracts. Where guarantees for environmental remediation and other similar matters do not include a stated cap, the amounts reflect management's estimate of the maximum potential exposure.

		December 31, 2019	
	Equity Company Obligations (1)	Other Third-Party Obligations	Total
Guarantees		(millions of dollars)	
Debt-related	827	104	931
Other	873	5,151	6,024
Total	1,700	5,255	6,955

(1) ExxonMobil share.

Additionally, the Corporation and its affiliates have numerous long-term sales and purchase commitments in their various business activities, all of which are expected to be fulfilled with no adverse consequences material to the Corporation's operations or financial condition.

In accordance with a Venezuelan nationalization decree issued in February 2007, a subsidiary of the Venezuelan National Oil Company (PdVSA) assumed the operatorship of the Cerro Negro Heavy Oil Project. The decree also required conversion of the Cerro Negro Project into a "mixed enterprise" and an increase in PdVSA's or one of its affiliate's ownership interest in the Project. ExxonMobil refused to accede to the terms proffered by the government, and on June 27, 2007, the government expropriated ExxonMobil's 41.67 percent interest in the Cerro Negro Project.

ExxonMobil collected awards of \$908 million in an arbitration against PdVSA under the rules of the International Chamber of Commerce in respect of an indemnity related to the Cerro Negro Project and \$260 million in an arbitration for compensation due for the La Ceiba Project and for export curtailments at the Cerro Negro Project under rules of International Centre for Settlement of Investment Disputes (ICSID). An ICSID arbitration award relating to the Cerro Negro Project's expropriation (\$1.4 billion) was annulled based on a determination that a prior Tribunal failed to adequately explain why the cap on damages in the indemnity owed by PdVSA did not affect or limit the amount owed for the expropriation of the Cerro Negro Project. ExxonMobil filed a new claim seeking to restore the original award of damages for the Cerro Negro Project with ICSID on September 26, 2018.

The net impact of this matter on the Corporation's consolidated financial results cannot be reasonably estimated. Regardless, the Corporation does not expect the resolution to have a material effect upon the Corporation's operations or financial condition.

An affiliate of ExxonMobil is one of the Contractors under a Production Sharing Contract (PSC) with the Nigerian National Petroleum Corporation (NNPC) covering the Erha block located in the offshore waters of Nigeria. ExxonMobil's affiliate is the operator of the block and owns a 56.25 percent interest under the PSC. The Contractors are in dispute with NNPC regarding NNPC's lifting of crude oil in excess of its entitlement under the terms of the PSC. In accordance with the terms of the PSC, the Contractors initiated arbitration in Abuja, Nigeria, under the Nigerian Arbitration and Conciliation Act. On October 24, 2011, a three-member arbitral Tribunal issued an award upholding the Contractors' position in all material respects and awarding damages to the Contractors jointly in an amount of approximately \$1.8 billion plus \$234 million in accrued interest. The Contractors petitioned a Nigerian federal court for enforcement of the award, and NNPC petitioned the same court to have the award set aside. On May 22, 2012, the court set aside the award. The Contractors appealed that judgment to the Court of Appeal, Abuja Judicial Division. On July 22, 2016, the Court of Appeal upheld the decision of the lower court setting aside the award. On October 21, 2016, the Contractors appealed the decision to the Supreme Court of Nigeria. In June 2013, the Contractors filed a lawsuit against NNPC in the Nigerian federal high court in order to preserve their ability to seek enforcement of the PSC in the courts if necessary. Following dismissal by this court, the Contractors appealed to the Nigerian Court of Appeal in June 2016. In October 2014, the Contractors filed suit in the United States District Court for the Southern District of New York (SDNY) to enforce, if necessary, the arbitration award against NNPC assets residing within that jurisdiction. NNPC moved to dismiss the lawsuit. On September 4, 2019, the SDNY dismissed the Contractors' petition to recognize and enforce the Erha arbitration award. The Contractors filed a notice of appeal in the Second Circuit on October 2, 2019. At this time, the net impact of this matter on the Corporation's consolidated financial results cannot be reasonably estimated. However, regardless of the outcome of enforcement proceedings, the Corporation does not expect the proceedings to have a material effect upon the Corporation's operations or financial condition.

17. Pension and Other Postretirement Benefits

The benefit obligations and plan assets associated with the Corporation's principal benefit plans are measured on December 31.

		Pension Benefits				
	U.S.	•	Non-U	J.S.	Benef	its
	2019	2018	2019	2018	2019	2018
			(perce	ent)		
Weighted-average assumptions used to determine						
benefit obligations at December 31						
Discount rate	3.50	4.40	2.30	3.00	3.50	4.40
Long-term rate of compensation increase	5.75	5.75	4.80	4.30	5.75	5.75
	(millions of dollars)					
Change in benefit obligation						
Benefit obligation at January 1	18,174	19,310	25,378	27,963	7,471	8,100
Service cost	757	819	551	608	139	152
Interest cost	766	721	763	754	315	301
Actuarial loss/(gain)	2,562	(957)	3,703	(1,034)	556	(630)
Benefits paid (1) (2)	(1,300)	(1,715)	(1,196)	(1,284)	(517)	(528)
Foreign exchange rate changes	-	-	391	(1,664)	25	(49)
Amendments, divestments and other	-	(4)	328	35	124	125
Benefit obligation at December 31	20,959	18,174	29,918	25,378	8,113	7,471
Accumulated benefit obligation at December 31	16,387	14,683	27,236	23,350	-	-

(1) Benefit payments for funded and unfunded plans.

(2) For 2019 and 2018, other postretirement benefits paid are net of \$20 million and \$13 million of Medicare subsidy receipts, respectively.

For selection of the discount rate for U.S. plans, several sources of information are considered, including interest rate market indicators and the effective discount rate determined by use of a yield curve based on high-quality, noncallable bonds applied to the estimated cash outflows for benefit payments. For major non-U.S. plans, the discount rate is determined by using a spot yield curve of high-quality, local-currency-denominated bonds at an average maturity approximating that of the liabilities.

The measurement of the accumulated postretirement benefit obligation assumes a health care cost trend rate of 4.5 percent in 2021 and subsequent years. A one-percentage-point increase in the health care cost trend rate would increase service and interest cost by \$85 million and the postretirement benefit obligation by \$921 million. A one-percentage-point decrease in the health care cost trend rate would decrease service and interest cost by \$63 million and the postretirement benefit obligation by \$726 million.

		Other Postre	tirement							
	U.S.		Non-U	.S.	Benefits					
	2019	2018	2019	2018	2019	2018				
		(millions of dollars)								
Change in plan assets										
Fair value at January 1	11,134	12,782	19,486	21,461	386	427				
Actual return on plan assets	2,521	(710)	3,210	(15)	54	(13)				
Foreign exchange rate changes	-	-	513	(1,320)	-	-				
Company contribution	1,022	491	602	438	41	30				
Benefits paid (1)	(1,041)	(1,429)	(883)	(903)	(56)	(58)				
Other	-	-	(12)	(175)	-	-				
Fair value at December 31	13,636	11,134	22,916	19,486	425	386				

(1) Benefit payments for funded plans.

The funding levels of all qualified pension plans are in compliance with standards set by applicable law or regulation. As shown in the table below, certain smaller U.S. pension plans and a number of non-U.S. pension plans are not funded because local applicable tax rules and regulatory practices do not encourage funding of these plans. All defined benefit pension obligations, regardless of the funding status of the underlying plans, are fully supported by the financial strength of the Corporation or the respective sponsoring affiliate.

		Pension Benefits				
	U.S.		Non-U	J .S.		
	2019	2018	2019	2018		
		(millions of	dollars)			
Assets in excess of/(less than) benefit obligation						
Balance at December 31						
Funded plans	(4,656)	(4,604)	(1,728)	439		
Unfunded plans	(2,667)	(2,436)	(5,274)	(6,331)		
Total	(7,323)	(7,040)	(7,002)	(5,892)		

The authoritative guidance for defined benefit pension and other postretirement plans requires an employer to recognize the overfunded or underfunded status of a defined benefit postretirement plan as an asset or liability in its statement of financial position and to recognize changes in that funded status in the year in which the changes occur through other comprehensive income.

	Other Postre	tirement			
U.S.		Non-U.S.		Benef	its
2019	2018	2019	2018	2019	2018
		(millions of	dollars)		
(7,323)	(7,040)	(7,002)	(5,892)	(7,688)	(7,085)
-	-	1,151	1,174	-	-
(242)	(243)	(267)	(314)	(351)	(362)
(7,081)	(6,797)	(7,886)	(6,752)	(7,337)	(6,723)
(7,323)	(7,040)	(7,002)	(5,892)	(7,688)	(7,085)
3,971	3,831	5,662	4,713	1,339	877
1	6	360	(93)	(315)	(357)
3,972	3,837	6,022	4,620	1,024	520
	2019 (7,323) (242) (7,081) (7,323) 3,971 1	U.S. 2019 2018 (7,323) (7,040) (242) (243) (7,081) (6,797) (7,323) (7,040) 3,971 3,831 1 6	2019 2018 2019 (millions of (millions of (7,323) (7,040) (7,002) - - 1,151 (242) (243) (267) (7,081) (6,797) (7,886) (7,323) (7,040) (7,002) 3,971 3,831 5,662 1 6 360	$\begin{tabular}{ c c c c c c c } \hline U.S. & Non-U.S. \\ \hline 2019 & 2018 & 2019 & 2018 \\ (millions of dollars) \\ \hline (7,323) & (7,040) & (7,002) & (5,892) \\ \hline (7,323) & (7,040) & (7,002) & (5,892) \\ \hline (7,081) & (6,797) & (7,886) & (6,752) \\ \hline (7,323) & (7,040) & (7,002) & (5,892) \\ \hline (7,323) & (7,040) & (7,002) & (5,892) \\ \hline (3,971 & 3,831 & 5,662 & 4,713 \\ 1 & 6 & 360 & (93) \\ \hline \end{tabular}$	U.S.Non-U.S.Benefit20192018201920182019(millions of dollars) $(7,323)$ $(7,040)$ $(7,002)$ $(5,892)$ $(7,688)$ $(7,323)$ $(7,040)$ $(7,002)$ $(5,892)$ $(7,688)$ (242) (243) (267) (314) (351) $(7,081)$ $(6,797)$ $(7,886)$ $(6,752)$ $(7,337)$ $(7,323)$ $(7,040)$ $(7,002)$ $(5,892)$ $(7,688)$ $3,971$ $3,831$ $5,662$ $4,713$ $1,339$ 1 6 360 (93) (315)

(1) Fair value of assets less benefit obligation shown on the preceding page.

The long-term expected rate of return on funded assets shown below is established for each benefit plan by developing a forward-looking, long-term return assumption for each asset class, taking into account factors such as the expected real return for the specific asset class and inflation. A single, long-term rate of return is then calculated as the weighted average of the target asset allocation percentages and the long-term return assumption for each asset class.

		Pension Benefits						Other stretirement	
		U.S.			Non-U.S.	<u> </u>		Benefits	
	2019	2018	2017	2019	2018	2017	2019	2018	2017
Weighted-average assumptions used to									
determine net periodic benefit cost for									
years ended December 31				()	percent)				
Discount rate	4.40	3.80	4.25	3.00	2.80	3.00	4.40	3.80	4.25
Long-term rate of return on funded assets	5.30	6.00	6.50	4.10	4.70	5.20	4.60	6.00	6.50
Long-term rate of compensation increase	5.75	5.75	5.75	4.30	4.30	4.00	5.75	5.75	5.75
Components of net periodic benefit cost	(millions of dollars))			
Service cost	757	819	784	551	608	596	139	152	129
Interest cost	766	721	798	763	754	772	315	301	317
Expected return on plan assets	(568)	(727)	(775)	(777)	(951)	(1,000)	(15)	(23)	(24)
Amortization of actuarial loss/(gain)	305	362	438	306	409	476	55	116	96
Amortization of prior service cost	5	5	5	56	46	47	(42)	(40)	(33)
Net pension enhancement and							. ,	. ,	. ,
curtailment/settlement cost	164	268	609	(98)	44	19	-	-	-
Net periodic benefit cost	1,429	1,448	1,859	801	910	910	452	506	485
Changes in amounts recorded in accumulated									
other comprehensive income:									
Net actuarial loss/(gain)	609	479	(324)	1,268	(66)	(191)	517	(594)	215
Amortization of actuarial (loss)/gain	(469)	(630)	(1,047)	(208)	(453)	(495)	(55)	(116)	(96)
Prior service cost/(credit)	(105)	(050)	(1,017)	379	98	111	(00)	(110)	(50)
Amortization of prior service (cost)/credit	(5)	(5)	(5)	(56)	(46)	(47)	42	40	33
Foreign exchange rate changes	(3)	(0)	-	19	(356)	559	-	(8)	8
Total recorded in other comprehensive income	135	(156)	(1,376)	1,402	(823)	(63)	504	(678)	160
Total recorded in net periodic benefit cost and	155	(150)	(1,570)	1,702	(023)	(00)	504	(0/0)	100
other comprehensive income, before tax	1,564	1,292	483	2,203	87	847	956	(172)	645

Costs for defined contribution plans were \$422 million, \$391 million and \$384 million in 2019, 2018 and 2017, respectively.

A summary of the change in accumulated other comprehensive income is shown in the table below:

	Oth	Total Pension and Other Postretirement Benefits		
	2019	2018	2017	
		(millions of dollars)		
(Charge)/credit to other comprehensive income, before tax				
U.S. pension	(135)	156	1,376	
Non-U.S. pension	(1,402)	823	63	
Other postretirement benefits	(504)	678	(160)	
Total (charge)/credit to other comprehensive income, before tax	(2,041)	1,657	1,279	
(Charge)/credit to income tax (see Note 4)	550	(470)	(290)	
(Charge)/credit to investment in equity companies	(19)	24	(43)	
(Charge)/credit to other comprehensive income including noncontrolling				
interests, after tax	(1,510)	1,211	946	
Charge/(credit) to equity of noncontrolling interests	146	(114)	12	
(Charge)/credit to other comprehensive income attributable to ExxonMobil	(1,364)	1,097	958	

The Corporation's investment strategy for benefit plan assets reflects a long-term view, a careful assessment of the risks inherent in plan assets and liabilities and broad diversification to reduce the risk of the portfolio. The benefit plan assets are primarily invested in passive global equity and local currency fixed income index funds to diversify risk while minimizing costs. The equity funds hold ExxonMobil stock only to the extent necessary to replicate the relevant equity index. The fixed income funds are largely invested in investment grade corporate and government debt securities.

Studies are periodically conducted to establish the preferred target asset allocation percentages. The target asset allocation for the U.S. benefit plans and the major non-U.S. plans is 30 percent equity securities and 70 percent debt securities. The equity targets for the U.S. and certain non-U.S. plans include a small allocation to private equity partnerships that primarily focus on early-stage venture capital of 4 percent and 3 percent, respectively.

The fair value measurement levels are accounting terms that refer to different methods of valuing assets. The terms do not represent the relative risk or credit quality of an investment.

The 2019 fair value of the benefit plan assets, including the level within the fair value hierarchy, is shown in the tables below:

		U	.S. Pension				Non	-U.S. Pension	l	
		Fair Value M	easurement				Fair Value M	easurement		
		at December 31	, 2019, Using:				at December 31	, 2019, Using	:	
				Net	_				Net	-
				Asset					Asset	
	Level 1	Level 2	Level 3	Value (1)	Total	Level 1	Level 2	Level 3	Value (1)	Total
					(millions of	f dollars)				
Asset category:										
Equity securities										
U.S.	-	-	-	1,960	1,960	-	-	-	3,436	3,436
Non-U.S.	-	-	-	1,656	1,656	70 (2)	-	-	3,015	3,085
Private equity	-	-	-	499	499	-	-	-	489	489
Debt securities										
Corporate	-	4,932 ⁽³⁾	-	1	4,933	-	129 <i>(</i> 3 <i>)</i>	-	4,486	4,615
Government	-	4,470 ⁽³⁾	-	2	4,472	280 (4)	139 <i>(</i> 3 <i>)</i>	-	10,511	10,930
Asset-backed	-	-	-	1	1	-	21 (3)	-	212	233
Cash	-	-	-	107	107	33	12 (5)	-	61	106
Total at fair value	-	9,402	-	4,226	13,628	383	301	-	22,210	22,894
Insurance contracts										
at contract value					8					22
Total plan assets					13,636					22,916
										,_ •

(1) Per ASU 2015-07, certain instruments that are measured at fair value using the Net Asset Value (NAV) per share practical expedient have not been categorized in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the total value of plan assets.

(2) For non-U.S. equity securities held in separate accounts, fair value is based on observable quoted prices on active exchanges.

(3) For corporate, government and asset-backed debt securities, fair value is based on observable inputs of comparable market transactions.

(4) For government debt securities that are traded on active exchanges, fair value is based on observable quoted prices.

(5) For cash balances that are subject to withdrawal penalties or other adjustments, the fair value is treated as a Level 2 input.

		Ot	her Postretirement						
		Fair Value M	easurement						
		at December 31	, 2019, Using:						
				Net					
				Asset					
	Level 1	Level 2	Level 3	Value (1)	Total				
	(millions of dollars)								
Asset category:									
Equity securities									
U.S.	-	-	-	81	81				
Non-U.S.	-	-	-	49	49				
Debt securities									
Corporate	-	92 (2)	-	-	92				
Government	-	200 (2)	-	-	200				
Asset-backed	-	-	-	-	-				
Cash	-	-	-	3	3				
Total at fair value	-	292	-	133	425				

(1) Per ASU 2015-07, certain instruments that are measured at fair value using the Net Asset Value (NAV) per share practical expedient have not been categorized in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the total value of plan assets.

(2) For corporate, government and asset-backed debt securities, fair value is based on observable inputs of comparable market transactions.

The 2018 fair value of the benefit plan assets, including the level within the fair value hierarchy, is shown in the tables below:

		Ŭ	J.S. Pension				Noi	I-U.S. Pension	1	
		Fair Value M	easurement				Fair Value M	easurement		
		at December 31	, 2018, Using:				at December 31	, 2018, Using:		
				Net	_				Net	-
				Asset					Asset	
	Level 1	Level 2	Level 3	Value (1)	Total	Level 1	Level 2	Level 3	Value (1)	Total
					(millions	of dollars)				
Asset category:										
Equity securities										
U.S.	-	-	-	1,397	1,397	-	-	-	2,648	2,648
Non-U.S.	-	-	-	1,218	1,218	57 <i>(</i> 2)	-	-	2,436	2,493
Private equity	-	-	-	516	516	-	-	-	513	513
Debt securities										
Corporate	-	4,795 (3)	-	1	4,796	-	102 (3)	-	3,713	3,815
Government	-	3,085 ⁽³⁾	-	2	3,087	243 (4)	97 (3)	-	9,326	9,666
Asset-backed	-	-	-	1	1	-	28 ⁽³⁾	-	218	246
Cash	-	-	-	111	111	27	3 (5)	-	54	84
Total at fair value	-	7,880	-	3,246	11,126	327	230	-	18,908	19,465
Insurance contracts										
at contract value					8					21
Total plan assets					11,134					19,486
1					,101					

(1) Per ASU 2015-07, certain instruments that are measured at fair value using the Net Asset Value (NAV) per share practical expedient have not been categorized in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the total value of plan assets.

(2) For non-U.S. equity securities held in separate accounts, fair value is based on observable quoted prices on active exchanges.

(3) For corporate, government and asset-backed debt securities, fair value is based on observable inputs of comparable market transactions.

(4) For government debt securities that are traded on active exchanges, fair value is based on observable quoted prices.

(5) For cash balances that are subject to withdrawal penalties or other adjustments, the fair value is treated as a Level 2 input.

			her Postretirement						
		Fair Value M	easurement						
		at December 31, 2018, Using:							
				Net					
				Asset					
	Level 1	Level 2	Level 3	Value (1)	Total				
	(millions of dollars)								
Asset category:									
Equity securities									
U.S.	-	-	-	64	64				
Non-U.S.	-	-	-	41	41				
Debt securities									
Corporate	-	88 (2)	-	-	88				
Government	-	189 (2)	-	-	189				
Asset-backed	-	-	-	-	-				
Cash	-	-	-	4	4				
Total at fair value	-	277	-	109	386				

(1) Per ASU 2015-07, certain instruments that are measured at fair value using the Net Asset Value (NAV) per share practical expedient have not been categorized in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the total value of plan assets.

(2) For corporate, government and asset-backed debt securities, fair value is based on observable inputs of comparable market transactions.

A summary of pension plans with an accumulated benefit obligation in excess of plan assets is shown in the table below:

	Pension Benefits			
-	U.S.		Non	U.S.
	2019	2018	2019	2018
		(millions	of dollars)	
For <u>funded</u> pension plans with an accumulated benefit obligation				
in excess of plan assets:				
Projected benefit obligation	18,292	15,738	3,616	4,037
Accumulated benefit obligation	14,940	13,208	3,026	3,671
Fair value of plan assets	13,636	11,134	1,381	3,499
For <u>unfunded</u> pension plans:				
Projected benefit obligation	2,667	2,436	5,274	6,331
Accumulated benefit obligation	1,447	1,475	4,629	5,670
				Other
		Pension B	enefits	Postretirement
		U.S.	Non-U.S.	Benefits
			(millions of dollars)	
Estimated 2020 amortization from accumulated other comprehensive income:		505	(00	00
Net actuarial loss/(gain) (1)		527	422	89
Prior service cost (2)		5	70	(42)

(1) The Corporation amortizes the net balance of actuarial losses/(gains) as a component of net periodic benefit cost over the average remaining service period of active plan participants.

(2) The Corporation amortizes prior service cost on a straight-line basis as permitted under authoritative guidance for defined benefit pension and other postretirement benefit plans.

	Pension 1	Pension Benefits		retirement Benefits				
				Medicare				
	U.S.	Non-U.S.	Gross	Subsidy Receipt				
		(millions of dollars)						
Contributions expected in 2020	1,030	515	-	-				
Benefit payments expected in:								
2020	1,440	1,171	444	20				
2021	1,339	1,162	445	21				
2022	1,330	1,177	443	22				
2023	1,328	1,199	440	23				
2024	1,327	1,221	438	24				
2025 - 2029	6,512	6,125	2,196	132				

18. Disclosures about Segments and Related Information

The Upstream, Downstream and Chemical functions best define the operating segments of the business that are reported separately. The factors used to identify these reportable segments are based on the nature of the operations that are undertaken by each segment. The Upstream segment is organized and operates to explore for and produce crude oil and natural gas. The Downstream segment is organized and operates to manufacture and sell petroleum products. The Chemical segment is organized and operates to manufacture and sell petroleum and petrochemical industries.

These functions have been defined as the operating segments of the Corporation because they are the segments (1) that engage in business activities from which revenues are recognized and expenses are incurred; (2) whose operating results are regularly reviewed by the Corporation's chief operating decision maker to make decisions about resources to be allocated to the segment and to assess its performance; and (3) for which discrete financial information is available.

Earnings after income tax include transfers at estimated market prices.

In the Corporate and financing segment, interest revenue relates to interest earned on cash deposits and marketable securities. Interest expense includes nondebt-related interest expense of \$105 million in 2019, \$84 million in 2018 and \$136 million in 2017.

	Upstream		Downstream		Char	Chemical		Correcto
	U.S.	Non-U.S.	U.S.	Non-U.S.	U.S.	Non-U.S.	and Financing	Corporate Total
	0.0.	1011-0.5.	0.5.	(millions of		1011-0.5.	1 municing	Total
As of December 31, 2019								
Earnings after income tax	536	13,906	1,717	606	206	386	(3,017)	14,340
Earnings of equity companies included above	282	4,534	196	19	(4)	818	(404)	5,441
Sales and other operating revenue	9,364	13,779	70,523	134,460	9,723	17,693	41	255,583
Intersegment revenue	10,893	30,864	22,416	24,775	7,864	5,905	224	-
Depreciation and depletion expense	6,162	9,305	674	832	555	621	849	18,998
Interest revenue	-	-	-	-	-	-	84	84
Interest expense	54	34	1	9	-	1	731	830
Income tax expense (benefit)	(151)	5,509	465	361	58	305	(1,265)	5,282
Additions to property, plant and equipment	10,404	7,347	2,685	1,777	1,344	589	758	24,904
Investments in equity companies	5,313	17,736	319	1,062	1,835	3,335	(309)	29,291
Total assets	95,750	151,181	23,442	37,133	16,544	20,376	18,171	362,597
		,	,	,		,	,	
As of December 31, 2018								
Earnings after income tax	1,739	12,340	2,962	3,048	1,642	1,709	(2,600)	20,840
Earnings of equity companies included above	608	5,816	156	(6)	48	1,113	(380)	7,355
Sales and other operating revenue	10,359	15,158	74,327	147,007	12,239	20,204	38	279,332
Intersegment revenue	8,683	29,659	21,954	29,888	9,044	7,217	205	_/0,00_
Depreciation and depletion expense	6,024	9,257	684	890	405	606	879	18,745
Interest revenue		-	-	-	-	-	64	64
Interest expense	77	31	2	12	-	1	643	766
Income tax expense (benefit)	104	8,149	946	1,008	566	245	(1,486)	9,532
Additions to property, plant and equipment	7.119	7,974	1,152	1,595	1,146	348	(1,100)	20,051
Investments in equity companies	4,566	16,337	293	1,162	870	3,431	(277)	26,382
Total assets	90,310	148,914	17,898	34,024	14,904	21,131	19,015	346,196
		110,011	1,,000	3 .,02 .	1,001		10,010	5.0,150
As of December 31, 2017								
Earnings after income tax	6,622	6,733	1,948	3,649	2,190	2,328	(3,760)	19,710
Earnings of equity companies included above	216	3,618	118	490	90	1,217	(369)	5,380
Sales and other operating revenue	9,349	14,508	61,695	122,881	11,035	17,659	35	237,162
Intersegment revenue	5,729	22,935	14,857	22,263	7,270	5,550	208	-
Depreciation and depletion expense	6,963	9,741	658	883	299	504	845	19,893
Interest revenue	-		-	-	_	-	36	36
Interest expense	87	29	1	6	-	-	478	601
Income tax expense (benefit)	(8,552)	5,463	(61)	934	362	664	16	(1,174
Effect of U.S. tax reform - noncash	(7,602)	480	(618)	-	(335)	-	2,133	(5,942
Additions to property, plant and equipment	9,761	8,617	769	1,551	1,330	2,019	854	24,901
Investments in equity companies	4,680	14,494	276	1,462	341	3,387	(286)	24,354
Total assets	89,048	155,822	18,172	34,294	13,363	21,133	16,859	348,691
	05,040	103,022		0 1,204	10,000	21,100	10,000	5 10,031

Geographic

Sales and other operating revenue	2019	2018	2017	
	(millions of dollars)			
United States Non-U.S.	89,612 165,971	96,930 182,402	82,079 155,083	
Total	255,583	279,332	237,162	
Significant non-U.S. revenue sources include: (1) Canada United Kingdom France Singapore Belgium	19,735 17,479 12,740 12,128 11,644	22,672 18,702 13,637 13,689 15,664	20,116 16,611 11,235 11,589 13,633	
Italy	10,459	13,396	11,476	

(1) Revenue is determined by primary country of operations. Excludes certain sales and other operating revenues in Non-U.S. operations where attribution to a specific country is not practicable.

Long-lived assets	2019	2018	2017
		(millions of dollars)	
United States	114,372	108,147	105,101
Non-U.S.	114,372 138,646	138,954	
	,	,	147,529
Total	253,018	247,101	252,630
Significant non-U.S. long-lived assets include:			
Canada	39,130	37,433	41,138
Australia	13,933	14,548	16,908
Singapore	11,645	11,148	11,292
Kazakhstan	9,315	9,726	10,121
Papua New Guinea	8,057	8,269	8,463
Nigeria	7,640	8,421	9,734
Angola	5,784	7,021	7,689
United Arab Emirates	5,262	4,859	4,304
Russia	5,135	5,456	5,702
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19. Income and Other Taxes

	2019			2018			2017		
	U.S.	Non-U.S.	Total	U.S.	Non-U.S.	Total	U.S.	Non-U.S.	Total
				(m	illions of dollars)			
Income tax expense									
Federal and non-U.S.									
Current	(121)	6,171	6,050	459	9,001	9,460	577	6,633	7,210
Deferred - net	(255)	(420)	(675)	518	(614)	(96)	(9,075)	754	(8,321)
U.S. tax on non-U.S. operations	89	-	89	42	-	42	17	-	17
Total federal and non-U.S.	(287)	5,751	5,464	1,019	8,387	9,406	(8,481)	7,387	(1,094)
State	(182)	-	(182)	126	-	126	(80)	-	(80)
Total income tax expense	(469)	5,751	5,282	1,145	8,387	9,532	(8,561)	7,387	(1,174)
All other taxes and duties									
Other taxes and duties	3,566	26,959	30,525	3,498	29,165	32,663	3,330	26,774	30,104
Included in production and									
manufacturing expenses	1,385	811	2,196	1,245	857	2,102	1,107	747	1,854
Included in SG&A expenses	160	305	465	153	312	465	147	354	501
Total other taxes and duties	5,111	28,075	33,186	4,896	30,334	35,230	4,584	27,875	32,459
Total	4,642	33,826	38,468	6,041	38,721	44,762	(3,977)	35,262	31,285

The above provisions for deferred income taxes include net credits of \$740 million in 2019 and \$289 million in 2018 related to changes in tax laws and rates. For 2017, deferred income tax expense includes a net credit of \$5,920 million, reflecting a \$5,942 million credit related to U.S. tax reform and \$22 million of other changes in tax laws and rates.

Following the December 22, 2017, enactment of the U.S. Tax Cuts and Jobs Act, in accordance with Accounting Standard Codification Topic 740 (Income Taxes) and following the guidance outlined in the SEC Staff Accounting Bulletin No. 118, the Corporation included a \$5,942 million credit in its 2017 results, representing a reasonable estimate of the income tax effects of the changes in tax law and tax rate. The Corporation's results for 2018 include a \$291 million tax credit, mainly in the Non-U.S. Upstream, reflecting an updated estimate of the impact of U.S. tax reform including clarifications provided in tax regulations issued by the U.S. Treasury. The Corporation completed its accounting for the enactment-date income tax effects of the U.S. Tax Cuts and Jobs Act in accordance with Accounting Standard Codification Topic 740 (Income Taxes) during 2018.

The reconciliation between income tax expense and a theoretical U.S. tax computed by applying a rate of 21 percent for 2019 and 2018 and 35 percent for 2017 is as follows:

	2019	2018	2017	
	(millions of dollars)			
Income before income taxes				
United States	(53)	5,200	(754)	
Non-U.S.	20,109	25,753	19,428	
Total	20,056	30,953	18,674	
Theoretical tax	4,212	6,500	6,536	
Effect of equity method of accounting	(1,143)	(1,545)	(1,883)	
Non-U.S. taxes in excess of/(less than) theoretical U.S. tax (1)	2,573	4,626	1,848	
Enactment-date effects of U.S. tax reform	-	(291)	(5,942)	
Other (2)	(360)	242	(1,733)	
Total income tax expense	5,282	9,532	(1,174)	
Effective tax rate calculation				
Income taxes	5,282	9,532	(1,174)	
ExxonMobil share of equity company income taxes	2,490	3,142	2,228	
Total income taxes	7,772	12,674	1,054	
Net income including noncontrolling interests	14,774	21,421	19,848	
Total income before taxes	22,546	34,095	20,902	
Effective income tax rate	34%	37%	5%	

(1) 2019 includes taxes less than the theoretical U.S. tax of \$773 million from Norway operations and the sale of upstream assets, \$657 million from a tax rate change in Alberta, Canada, and \$268 million from an adjustment to a prior year tax position.

(2) 2017 includes taxes less than the theoretical U.S. tax of \$708 million from an exploration tax benefit.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Deferred income taxes reflect the impact of temporary differences between the amount of assets and liabilities recognized for financial reporting purposes and such amounts recognized for tax purposes.

Deferred tax liabilities/(assets) are comprised of the following at December 31:

Tax effects of temporary differences for:	2019	2018
	(millions of	dollars)
Property, plant and equipment	36,029	35,745
Other liabilities	7,653	6,516
Total deferred tax liabilities	43,682	42,261
Pension and other postretirement benefits Asset retirement obligations	(4,712) (3,403)	(4,115) (4,118)
Tax loss carryforwards	(7,404)	(6,321)
Other assets	(7,735)	(5,498)
Total deferred tax assets	(23,254)	(20,052)
Asset valuation allowances Net deferred tax liabilities	1,924	1,826
iver defended tax madmines	22,352	24,035

In 2019, asset valuation allowances of \$1,924 million increased by \$98 million and included net provisions of \$113 million and effects of foreign currency translation of \$15 million.

Balance sheet classification	2019	2018
	(millions of	dollars)
Other assets, including intangibles, net	(3,268)	(3,209)
Deferred income tax liabilities	25,620	27,244
Net deferred tax liabilities	22,352	24,035

The Corporation's undistributed earnings from subsidiary companies outside the United States include amounts that have been retained to fund prior and future capital project expenditures. Deferred income taxes have not been recorded for potential future tax obligations, such as foreign withholding tax and state tax, as these undistributed earnings are expected to be indefinitely reinvested for the foreseeable future. As of December 31, 2019, it is not practicable to estimate the unrecognized deferred tax liability. However, unrecognized deferred taxes on remittance of these funds are not expected to be material.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Unrecognized Tax Benefits. The Corporation is subject to income taxation in many jurisdictions around the world. Unrecognized tax benefits reflect the difference between positions taken or expected to be taken on income tax returns and the amounts recognized in the financial statements. The following table summarizes the movement in unrecognized tax benefits:

Gross unrecognized tax benefits	2019	2018	2017					
	(millions of dollars)							
Balance at January 1	9,174	8,783	9,468					
Additions based on current year's tax positions	287	375	522					
Additions for prior years' tax positions	120	240	523					
Reductions for prior years' tax positions	(97)	(125)	(865)					
Reductions due to lapse of the statute of limitations	(279)	(5)	(113)					
Settlements with tax authorities	(538)	(68)	(782)					
Foreign exchange effects/other	177	(26)	30					
Balance at December 31	8,844	9,174	8,783					

The gross unrecognized tax benefit balances shown above are predominantly related to tax positions that would reduce the Corporation's effective tax rate if the positions are favorably resolved. Unfavorable resolution of these tax positions generally would not increase the effective tax rate. The 2019, 2018 and 2017 changes in unrecognized tax benefits did not have a material effect on the Corporation's net income.

Resolution of these tax positions through negotiations with the relevant tax authorities or through litigation will take many years to complete. It is difficult to predict the timing of resolution for tax positions since such timing is not entirely within the control of the Corporation. In the United States, the Corporation has various ongoing U.S. federal income tax positions at issue with the Internal Revenue Service (IRS) for tax years beginning in 2006. The Corporation filed a refund suit for tax years 2006-2009 in U.S. federal district court with respect to the positions at issue for those years. These positions are reflected in the unrecognized tax benefits table above. On February 24, 2020, the Corporation received an adverse ruling on this suit and is assessing the ruling. Unfavorable resolution of all positions at issue with the IRS would not have a materially adverse effect on the Corporation's net income or liquidity. The IRS has asserted penalties associated with several of those positions. The Corporation has not recognized the penalties as an expense because the Corporation does not expect the penalties to be sustained under applicable law.

It is reasonably possible that the total amount of unrecognized tax benefits could increase or decrease by 10 percent in the next 12 months with no material impact on the Corporation's net income.

The following table summarizes the tax years that remain subject to examination by major tax jurisdiction:

Country of Operation	Open Tax Years
Abu Dhabi	2018 - 2019
Angola	2018 - 2019
Australia	2010 - 2019
Belgium	2017 - 2019
Canada	2000 - 2019
Equatorial Guinea	2007 - 2019
Indonesia	2007 - 2019
Iraq	2014 - 2019
Malaysia	2011 - 2019
Nigeria	2006 - 2019
Norway	2007 - 2019
Papua New Guinea	2008 - 2019
Russia	2017 - 2019
United Kingdom	2015 - 2019
United States	2006 - 2019

The Corporation classifies interest on income tax-related balances as interest expense or interest income and classifies tax-related penalties as operating expense.

The Corporation incurred \$0 million, \$3 million and \$36 million in interest expense on income tax reserves in 2019, 2018 and 2017, respectively. The related interest payable balances were \$71 million and \$169 million at December 31, 2019, and 2018, respectively.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

20. Sale of Norway Assets

On December 10, 2019, the Corporation completed the sale of non-operated upstream assets in Norway to Vår Energi AS (Vår). The agreed sales price of \$4.5 billion was subject to interim period adjustments from the effective date of January 1, 2019, to the closing date, and reduction of obligations for income taxes from the effective date. Cash flow related to the divestment was \$3.1 billion in 2019 and the Corporation expects to receive a refund of income tax payments of \$0.6 billion and deferred consideration of \$0.3 billion plus interest by 2022. The Corporation recognized a gain of \$3.7 billion at closing of which \$2.7 billion is included in "Other income" and \$1.0 billion in "Income taxes" in the Consolidated Statement of Income.

SUPPLEMENTAL INFORMATION ON OIL AND GAS EXPLORATION AND PRODUCTION ACTIVITIES (unaudited)

The results of operations for producing activities shown below do not include earnings from other activities that ExxonMobil includes in the Upstream function, such as oil and gas transportation operations, LNG liquefaction and transportation operations, coal and power operations, technical service agreements, other nonoperating activities and adjustments for noncontrolling interests. These excluded amounts for both consolidated and equity companies totaled \$3,502 million in 2019, \$1,484 million in 2018 and \$1,402 million in 2017. Oil sands mining operations are included in the results of operations in accordance with Securities and Exchange Commission and Financial Accounting Standards Board rules.

		Canada/					
	United	Other				Australia/	
Results of Operations	States	Americas	Europe	Africa	Asia	Oceania	Total
			(m	illions of dollars)		
Consolidated Subsidiaries							
2019 - Revenue							
Sales to third parties	5,070	1,452	2,141	802	2,393	3,132	14,990
Transfers	6,544	5,979	1,345	7,892	8,706	628	31,094
	11,614	7,431	3,486	8,694	11,099	3,760	46,084
Production costs excluding taxes	4,697	4,366	1,196	2,387	1,597	637	14,880
Exploration expenses	120	498	118	234	119	180	1,269
Depreciation and depletion	5,916	1,975	601	3,019	2,264	703	14,478
Taxes other than income	998	122	113	682	1,182	250	3,347
Related income tax	(29)	(423)	(20)	1,188	4,238	599	5,553
Results of producing activities for consolidated							
subsidiaries	(88)	893	1,478	1,184	1,699	1,391	6,557
Equity Companies							
2019 - Revenue							
Sales to third parties	664	-	1,248	-	10,536	-	12,448
Transfers	530	-	6	-	464	-	1,000
	1,194	-	1,254	-	11,000	-	13,448
Production costs excluding taxes	595	-	570	6	555	-	1,726
Exploration expenses	1	-	4	-	-	-	5
Depreciation and depletion	379	-	231	-	528	-	1,138
Taxes other than income	33	-	75	-	3,634	-	3,742
Related income tax	-	-	180	(1)	2,275	-	2,454
Results of producing activities for equity companies	186	-	194	(5)	4,008	-	4,383
Total results of operations	98	893	1,672	1,179	5,707	1,391	10,940

		Canada/					
Develop of Operations	United	Other				Australia/	m . I
Results of Operations	States	Americas	Europe	Africa illions of dollars	Asia	Oceania	Total
Consolidated Subsidiaries			(111	inions of uonurs)		
2018 - Revenue							
Sales to third parties	5,914	1,491	3,680	1,136	2,431	3,256	17,908
Transfers	5,822	4,633	1,573	8,844	8,461	873	30,206
	11,736	6,124	5,253	9,980	10,892	4,129	48,114
Production costs excluding taxes	3,915	4,211	1,348	2,454	1,501	680	14,109
Exploration expenses	237	434	140	318	209	128	1,466
Depreciation and depletion	5,775	1,803	665	2,788	2,088	809	13,928
Taxes other than income	953	133	128	799	1,155	335	3,503
Related income tax	250	(121)	1,934	1,766	4,008	622	8,459
Results of producing activities for consolidated		()	<i>,</i> – –	,	,	-	-,
subsidiaries	606	(336)	1,038	1,855	1,931	1,555	6,649
Subsidiances		(886)	1,000	1,000	1,001	1,000	0,010
Equity Companies							
2018 - Revenue							
Sales to third parties	747	-	1,420	-	12,028	-	14,195
Transfers	588	-	8	-	935	-	1,531
	1,335	_	1,428	-	12,963	-	15,726
Production costs excluding taxes	535	-	745	5	409	-	1,694
Exploration expenses	1	_	4	5	405 5		1,054
Depreciation and depletion	248	_	172	-	462	_	882
Taxes other than income	33	_	61	_	4,104		4,198
Related income tax		_	271	(1)	2,726	-	2,996
Results of producing activities for equity companies	518		175	(4)	5,257		5,946
Results of producing activities for equity companies		-	1/5	(4)	3,237	-	3,940
Total results of operations	1,124	(336)	1,213	1,851	7,188	1,555	12,595
Consolidated Subsidiaries							
2017 - Revenue							
Sales to third parties	5,223	1,911	3,652	993	2,239	2,244	16,262
Transfers	3,852	3,462	1,631	7,771	6,035	689	23,440
	9,075	5,373	5,283	8,764	8,274	2,933	39,702
Production costs excluding taxes	3,730	3,833	1,576	2,064	1,618	626	13,447
Exploration expenses	162	647	94	311	494	82	1,790
Depreciation and depletion	6,689	2,005	1,055	2,957	1,782	913	15,401
Taxes other than income	684	97	146	559	811	311	2,608
Related income tax	(8,066)	(180)	1,717	1,911	2,148	316	(2,154)
Results of producing activities for consolidated							
subsidiaries	5,876	(1,029)	695	962	1,421	685	8,610
Equity Companies							
2017 - Revenue							
Sales to third parties	585	-	1,636	-	8,926	-	11,147
Transfers	443	-	10	-	638	-	1,091
	1,028	-	1,646	-	9,564	-	12,238
Production costs excluding taxes	523	-	418	-	336	-	1,277
Exploration expenses	1	-	13	-	878	-	892
Depreciation and depletion	320	-	166	-	477	-	963
Taxes other than income	33	-	679	-	2,997	-	3,709
Related income tax	-	-	130	-	1,924	-	2,054
Results of producing activities for equity companies	151	-	240	-	2,952	-	3,343
Total results of operations	6,027	(1,029)	935	962	4,373	685	11,953

Oil and Gas Exploration and Production Costs

The amounts shown for net capitalized costs of consolidated subsidiaries are \$13,082 million less at year-end 2019 and \$13,474 million less at year-end 2018 than the amounts reported as investments in property, plant and equipment for the Upstream in Note 9. This is due to the exclusion from capitalized costs of certain transportation and research assets and assets relating to LNG operations. Assets related to oil sands and oil shale mining operations are included in the capitalized costs in accordance with Financial Accounting Standards Board rules.

		United	Canada/ Other				Australia/	
Capitalized Costs		States	Americas	Europe	Africa	Asia	Oceania	Total
				(m	illions of dollars))		
Consolidated Subsidiaries								
As of December 31, 2019								
Property (acreage) costs	- Proved	19,046	2,579	49	988	2,971	719	26,352
	- Unproved	23,725	7,113	37	166	181	2,638	33,860
Total property costs		42,771	9,692	86	1,154	3,152	3,357	60,212
Producing assets		99,405	49,942	18,982	55,436	41,181	13,670	278,616
Incomplete construction		6,086	4,315	1,514	2,717	4,299	1,811	20,742
Total capitalized costs		148,262	63,949	20,582	59,307	48,632	18,838	359,570
Accumulated depreciation	*	63,333	21,533	17,544	43,743	22,497	7,235	175,885
Net capitalized costs for co	nsolidated subsidiaries	84,929	42,416	3,038	15,564	26,135	11,603	183,685
Equity Companies								
As of December 31, 2019								
Property (acreage) costs	- Proved	99	_	4	308	_	-	411
rioperty (deredge) costs	- Unproved	6	-	-	3,112	-	-	3,118
Total property costs	enproved	105	-	4	3,420	_	-	3,529
Producing assets		6,825	-	5,413	-	7,731	-	19,969
Incomplete construction		212	-	19	650	9,581	-	10,462
Total capitalized costs		7,142	-	5,436	4,070	17,312	-	33,960
Accumulated depreciation	and depletion	3,288	-	4,778	-	5,380	-	13,446
Net capitalized costs for eq		3,854	-	658	4,070	11,932	-	20,514
Consolidated Subsidiaries								
As of December 31, 2018		. =						
Property (acreage) costs	- Proved	17,996	2,482	147	982	2,944	722	25,273
	- Unproved	26,357	6,872	45	155	179	2,692	36,300
Total property costs		44,353	9,354	192	1,137	3,123	3,414	61,573
Producing assets		95,532	45,874	28,564	53,722	39,173	13,587	276,452
Incomplete construction		4,174	2,873	1,475	3,368	4,985	1,525	18,400
Total capitalized costs		144,059	58,101	30,231	58,227	47,281	18,526	356,425
Accumulated depreciation	and depletion	62,950	18,994	25,803	40,710	20,206	6,574	175,237
Net capitalized costs for co	nsolidated subsidiaries	81,109	39,107	4,428	17,517	27,075	11,952	181,188
Equity Companies								
As of December 31, 2018								
Property (acreage) costs	- Proved	98	-	4	309	-	-	411
	- Unproved	10	-	-	3,111	-	-	3,121
Total property costs	<u>F</u>	108	-	4	3,420	-	-	3,532
Producing assets		6,766	-	5,547	-	7,719	-	20,032
Incomplete construction		148	-	12	581	7,044	-	7,785
Total capitalized costs		7,022		5,563	4,001	14,763	_	31,349
Accumulated depreciation	and depletion	2,968	-	4,653	-	4,843	-	12,464
Net capitalized costs for eq	•	4,054	-	910	4,001	9,920	-	18,885
	any companies	-,004	_	510	7,001	3,320	_	10,000

Oil and Gas Exploration and Production Costs (continued)

The amounts reported as costs incurred include both capitalized costs and costs charged to expense during the year. Costs incurred also include new asset retirement obligations established in the current year, as well as increases or decreases to the asset retirement obligation resulting from changes in cost estimates or abandonment date. Total consolidated costs incurred in 2019 were \$19,240 million, up \$2,912 million from 2018, due primarily to higher development costs, partially offset by lower acquisition costs of unproved properties. In 2018 costs were \$16,328 million, down \$3,316 million from 2017, due primarily to lower acquisition costs of unproved properties by higher development costs. Total equity company costs incurred in 2019 were \$2,916 million, down \$115 million from 2018, due primarily to lower development costs.

Costs Incurred in Property A		United	Canada/ Other				Australia/	
Exploration and Developme	nt Activities	States	Americas	Europe	Africa	Asia	Oceania	Total
D				(mi	llions of dollars)			
During 2019								
Consolidated Subsidiaries Property acquisition costs	- Proved	12	-		-	26	-	38
Property acquisition costs	- Unproved	226	- 105	-	20	- 20	-	352
Exploration costs	- Onproved	134	1,107	155	252	111	194	1,953
Development costs		10,275	2,946	809	1,066	1,317	484	16,897
Total costs incurred for consol	idated subsidiaries	10,647	4,158	965	1,338	1,454	678	19,240
	indited subsidiaries		1,100	505	1,000	1,101	0,0	10,210
Equity Companies								
Property acquisition costs	- Proved	-	-	-	-	-	-	-
	- Unproved	-	-	-	-	-	-	-
Exploration costs		1	-	5	-	-	-	6
Development costs		241	-	15	69	2,585	-	2,910
Total costs incurred for equity	companies	242	-	20	69	2,585	-	2,916
D 1 2010								
During 2018 Consolidated Subsidiaries								
Property acquisition costs	- Proved	7	3		-	321	-	331
Floperty acquisition costs	- Unproved	238	2,109	-	- 1	521	-	2,348
Exploration costs	- Onproved	235	1,113	147	342	217	174	2,228
Development costs		7,440	1,734	96	791	1,104	256	11,421
Total costs incurred for consol	idated subsidiaries	7,920	4,959	243	1,134	1,642	430	16,328
			.,		_, :	-,		
Equity Companies								
Property acquisition costs	- Proved	21	-	-	-	-	-	21
	- Unproved	-	-	-	-	-	-	-
Exploration costs		1	-	4	-	5	-	10
Development costs		442	-	40	66	2,452	-	3,000
Total costs incurred for equity	companies	464	-	44	66	2,457	-	3,031
During 2017								
Consolidated Subsidiaries								
Property acquisition costs	- Proved	88	5	-	50	583	-	726
Troperty acquisition cools	- Unproved	6,167	1,004	35	70	-	2,601	9,877
Exploration costs	Chproved	190	702	109	373	224	509	2,107
Development costs		3,752	877	(39)	628	1,450	266	6,934
Total costs incurred for consol	idated subsidiaries	10,197	2,588	105	1,121	2,257	3,376	19,644
Equity Companies								
Property acquisition costs	- Proved	-	-	-	309	-	-	309
	- Unproved	-	-	-	3,111	-	-	3,111
Exploration costs		1	-	3	323	90	-	417
Development costs		137	-	41	192	1,801	-	2,171
Total costs incurred for equity	companies	138	-	44	3,935	1,891	-	6,008
		11	3					

Oil and Gas Reserves

The following information describes changes during the years and balances of proved oil and gas reserves at year-end 2017, 2018 and 2019.

The definitions used are in accordance with the Securities and Exchange Commission's Rule 4-10 (a) of Regulation S-X.

Proved oil and natural gas reserves are those quantities of oil and natural 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. In some cases, substantial new investments in additional wells and related facilities will be required to recover these proved reserves.

In accordance with the Securities and Exchange Commission's (SEC) rules, the Corporation's year-end reserves volumes as well as the reserves change categories shown in the following tables are required to be calculated on the basis of average prices during the 12-month period prior to the ending date of the period covered by the report, determined as an unweighted arithmetic average of the first-day-of-the-month price for each month within such period. These reserves quantities are also used in calculating unit-of-production depreciation rates and in calculating the standardized measure of discounted net cash flows.

Revisions can include upward or downward changes in previously estimated volumes of proved reserves for existing fields due to the evaluation or reevaluation of (1) already available geologic, reservoir or production data, (2) new geologic, reservoir or production data or (3) changes in the average of firstof-month oil and natural gas prices and / or costs that are used in the estimation of reserves. Revisions can also result from significant changes in either development strategy or production equipment/facility capacity. Reserve volumes that were subject to a downward revision can be revised upward at some point in the future when price levels increase, costs decline, and / or operating efficiencies occur.

Proved reserves include 100 percent of each majority-owned affiliate's participation in proved reserves and ExxonMobil's ownership percentage of the proved reserves of equity companies, but exclude royalties and quantities due others. Natural gas reserves exclude the gaseous equivalent of liquids expected to be removed from the natural gas on leases, at field facilities and at gas processing plants. These liquids are included in net proved reserves of crude oil and natural gas liquids.

In the proved reserves tables, consolidated reserves and equity company reserves are reported separately. However, the Corporation does not view equity company reserves any differently than those from consolidated companies.

Reserves reported under production sharing and other nonconcessionary agreements are based on the economic interest as defined by the specific fiscal terms in the agreement. The production and reserves reported for these types of arrangements typically vary inversely with oil and natural gas price changes. As oil and natural gas prices increase, the cash flow and value received by the company increase; however, the production volumes and reserves required to achieve this value will typically be lower because of the higher prices. When prices decrease, the opposite effect generally occurs. The percentage of total liquids and natural gas proved reserves (consolidated subsidiaries plus equity companies) at year-end 2019 that were associated with production sharing contract arrangements was 10 percent of liquids, 12 percent of natural gas and 10 percent on an oil-equivalent basis (natural gas is converted to an oil-equivalent basis at six billion cubic feet per one million barrels).

Net proved developed reserves are those volumes that are expected to be recovered 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. Net proved undeveloped reserves are those volumes 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.

Crude oil, natural gas liquids, and natural gas production quantities shown are the net volumes withdrawn from ExxonMobil's oil and natural gas reserves. The natural gas quantities differ from the quantities of natural gas delivered for sale by the producing function as reported in the Operating Information due to volumes consumed or flared and inventory changes.

The changes between 2019 year-end proved reserves and 2018 year-end proved reserves include worldwide production of 1.5 billion oil-equivalent barrels (GOEB), a reduction of 0.2 GOEB due to the sale of non-operated assets in Norway, and other net reductions of 0.4 GOEB in the United States and Canada. Additions to proved reserves resulted from revisions in Asia of 0.3 GOEB and extensions/discoveries of 0.1 GOEB in Guyana.

The changes between 2018 year-end proved reserves and 2017 year-end proved reserves include upward revisions of 3.4 billion barrels of bitumen at Kearl as a result of improved prices; downward natural gas revisions for the Groningen field in the Netherlands; and extensions/discoveries primarily in the United States. In 2018, the Dutch Cabinet notified Parliament of its intention to further reduce previously legislated Groningen gas extraction in response to seismic events over the last several years. In anticipation of a lower production outlook, the Corporation reduced its estimate of proved reserves by 0.8 billion oil-equivalent barrels for the Groningen gas field.

Crude Oil, Natural Gas Liquids, Bitumen and Synthetic Oil Proved Reserves

								Natural Gas			
				Crude Oil				Liquids	Bitumen	Synthetic Oil	
	** •. •	Canada/							Canada/	Canada/	
	United States	Other Americas	Europe	Africa	Asia	Australia/ Oceania	Total	Worldwide	Other Americas	Other Americas	Total
	States	7 micricus	Europe	Annea	11310		of barrels)	wondwide	7 micricus	Tincricas	Total
Net proved developed and							. ,				
undeveloped reserves of											
consolidated subsidiaries											
January 1, 2017	2,181	241	173	844	2,758	121	6,318	1,154	701	564	8,737
Revisions	70	19	43	30	490	2	654	(49)	416	(70)	951
Improved recovery	_	_	-	2	-	-	2	-	6	-	8
Purchases	428	5	-	-	-	-	433	164	_	-	597
Sales	(10)		(43)	-	-	-	(53)	(2)	_	-	(55)
Extensions/discoveries	158	161	(15)	3	384	-	706	58	_	-	764
Production	(132)		(54)	(150)	(136)	(13)	(501)	(67)	(111)	(21)	(700)
	. ,	, ,	, ,		. ,			<u>`</u>			. ,
December 31, 2017 Attributable to noncontrolling interests	2,695	410	119	729	3,496	110	7,559	1,258	1,012	473	10,302
-		10						0	200	111	
Proportional interest in proved											
reserves of equity companies											
January 1, 2017	236	-	17	-	1,183	-	1,436	384	-	-	1,820
Revisions	29	-	(1)	-	-	-	28	4	-	-	32
Improved recovery	-	-	-	-	-	-	-	-	-	-	-
Purchases	-	-	-	6	-	-	6	-	-	-	6
Sales	-	-	-	-	-	-	-	-	-	-	-
Extensions/discoveries	-	-	-	-	-	-	-	-	-	-	-
Production	(20)	- 1	(1)	-	(86)	-	(107)	(24)	-	-	(131)
December 31, 2017	245	-	15	6	1,097	-	1,363	364			1,727
Total liquids proved reserves	243		15	0	1,037		1,505	504			1,/2/
at December 31, 2017	2,940	410	134	735	4,593	110	8,922	1,622	1,012	473	12,029
Net proved developed and undeveloped reserves of											
consolidated subsidiaries											
January 1, 2018	2,695	410	119	729	3,496	110	7,559	1,258	1,012	473	10,302
Revisions	<u>_</u> ,055 61	28	63	(9)	4	6	153	(16)	3,286	15	3,438
Improved recovery	-	- 20	23	13	-	-	36	(10)	5,200	-	36
Purchases	8	_	- 25	-	_	_	8	2		-	10
Sales	(11)			-	-	-	(13)	(13)	-	-	
Extensions/discoveries	595	- 113	(2)	- 9	- 3	-	(13) 720	238	-	-	(26) 958
Production			-						-		
	(144)	. ,	(37)	(138)	(146)	(11)	(498)	(65)	(113)	(22)	(698)
December 31, 2018 Attributable to noncontrolling interests	3,204	529 44	166	604	3,357	105	7,965	1,404	4,185 962	466 142	14,020
Proportional interest in proved											
reserves of equity companies											
January 1, 2018	245	-	15	6	1,097	-	1,363	364	-	-	1,727
Revisions	245	-	13	-	1,007	-	35	1	_	_	36
Improved recovery	- 20	_	-	_	-			-	-	-	
Purchases	-	-	-	-	-	-	-	-	-	-	-
Sales	-	-	-	-	-	-	-	-	-	-	-
Extensions/discoveries	- 1	-	-	-		-	- 1	-	-	-	- 1
Extensions/discoveries Production		-	-	-	-	-		-	-	-	
	(20)		(1)	-	(83)	-	(104)	(23)			(127)
December 31, 2018	254	-	15	6	1,020	-	1,295	342			1,637
Total liquids proved reserves											
at December 31, 2018	3,458	529	181	610	4,377	105	9,260	1,746	4,185	466	15,657

Crude Oil, Natural Gas Liquids, Bitumen and Synthetic Oil Proved Reserves (continued)

								Natural Gas			
				Crude Oil				Liquids	Bitumen	Synthetic Oil	
		Canada/							Canada/	Canada/	
	United	Other		Australia/					Other	Other	
	States	Americas	Europe	Africa	Asia	Oceania	Total	Worldwide	Americas	Americas	Total
						(millions	of barrels)				
Net proved developed and											
undeveloped reserves of											
consolidated subsidiaries											
January 1, 2019	3,204	529	166	604	3,357	105	7,965	1,404	4,185	466	14,020
Revisions	(677)	(66)	20	(25)	136	-	(612)	(305)	(213)	(27)	(1,157
Improved recovery	-	-	-	-	-	-	-	-	-	-	-
Purchases	20	-	-	-	-	-	20	12	-	-	32
Sales	(1)	-	(117)	-	-	-	(118)	(27)	-	-	(145
Extensions/discoveries	710	125	-	-	-	-	835	263	-	-	1,098
Production	(168)	(31)	(30)	(132)	(158)	(11)	(530)	(72)	(114)	(24)	(740
December 31, 2019	3,088	557	39	447	3,335	94	7,560	1,275	3,858	415	13,108
Attributable to noncontrolling interests		21						3	894	126	
Proportional interest in proved reserves of equity companies											
January 1, 2019	254	-	15	6	1,020	-	1,295	342	-	-	1,637
Revisions	15	-	-	-	(38)	-	(23)	3	-	-	(20
Improved recovery	-	-	-	-	-	-	-	-	-	-	
Purchases	-	-	-	-	-	-	-	-	-	-	-
Sales	-	-	-	-	-	-	-	-	-	-	-
Extensions/discoveries	1	-	-	-	-	-	1	-	-	-	1
Production	(19)	-	(1)	-	(85)	-	(105)	(23)	-	-	(128
December 31, 2019	251	-	14	6	897	-	1,168	322			1,490
Total liquids proved reserves			-				,			·	,
at December 31, 2019	3,339	557	53	453	4,232	94	8,728	1,597	3,858	415	14,598
,					,		-, •	,·	- ,		,

Crude Oil, Natural Gas Liquids, Bitumen and Synthetic Oil Proved Reserves (continued)

Proved developed reserves, as of December 31, 2017	United States	Canada/ Other Americas	Europe					Canada/	Canada/	
December 31, 2017				Africa	Asia	Australia/ Oceania	Total	Other Americas	Canada/ Other Americas	Total
December 31, 2017					(millio	(millions of barrels)				
Consolidated subsidiaries	1,489	92	119	676	2,182	131	4,689	657	473	5,819
Equity companies	208	-	14	-	1,019	-	1,241	-	-	1,241
Proved undeveloped reserves, as of December 31, 2017										
Consolidated subsidiaries	2,167	337	30	137	1,426	31	4,128	355	_	4,483
Equity companies	48	-	1	6	431	-	486	-	_	486
Total liquids proved reserves at			-	0	101				·	
December 31, 2017	3,912	429	164	819	5,058	162	10,544	1,012	473	12,029
Proved developed reserves, as of December 31, 2018 Consolidated subsidiaries	1,696	153	123	578	2,285	118	4,953	3,880	466	9,299
Equity companies	208	-	15	-	919	-	1,142	-	-	1,142
Proved undeveloped reserves, as of December 31, 2018										
Consolidated subsidiaries	2,616	403	78	111	1,173	35	4,416	305	-	4,721
Equity companies	56	-	-	6	433	-	495			495
Total liquids proved reserves at										
December 31, 2018	4,576	556	216	695	4,810	153	11,006	4,185	466	15,657
Proved developed reserves, as of December 31, 2019										
Consolidated subsidiaries	1,655	195	23	419	2,309	90	4,691	3,528	415	8,634
Equity companies	200	-	13	-	727	-	940	-	-	940
Proved undeveloped reserves, as of December 31, 2019										
Consolidated subsidiaries	2,474	381	29	68	1,157	35	4,144	330	-	4,474
Equity companies	60	-	1	6	483	-	550	-	-	550
Total liquids proved reserves at									· ·	
December 31, 2019	4,389	576	66	493	4,676	125	10,325 (1)	3,858	415	14,598

(1) See previous pages for natural gas liquids proved reserves attributable to consolidated subsidiaries and equity companies. For additional information on natural gas liquids proved reserves see Item 2. Properties in ExxonMobil's 2019 Form 10-K.

Natural Gas and Oil-Equivalent Proved Reserves

			1	Natural Gas				
	United	Canada/ Other				Australia/		Oil-Equivalent Total
	States	Americas	Europe	Africa	Asia	Oceania	Total	All Products (1)
	States	Timericus		ons of cubic fee		Occumu	Total	(millions of oil- equivalent barrels)
Net proved developed and undeveloped								-1
reserves of consolidated subsidiaries	17 700	0.40	1,659	771	4 0 2 1	7 257	22 424	14 200
anuary 1, 2017 Revisions	17,786 649	940 206	1,659		4,921	7,357 33	33,434 673	14,309
	049			(135)	(214)	- 22	0/3	1,063 8
Improved recovery Purchases	- 982	1 56	-	-	-	-	1,038	o 771
Sales	(172)	(1)	(17)	-	-	-	(190)	(87)
Extensions/discoveries	956	269	(1/)	-	- 13	-	1,238	970
Production	(1,168)	(99)	(408)	(41)	(380)		(2,592)	(1,131)
December 31, 2017	19,033	1,372	1,368	595	4,340	(496) 6,894	33,602	15,903
ttributable to noncontrolling interests	19,055	1,572	1,300	595	4,540	0,094	33,002	15,905
roportional interest in proved reserves								
of equity companies								
anuary 1, 2017	211	-	7,624	-	15,234	-	23,069	5,665
Revisions	25	-	(1,129)	-	86	-	(1,018)	(138)
Improved recovery	-	-	-	-	-	-	-	-
Purchases	-	-	-	914	-	-	914	158
Sales	-	-	-	-	-	-	-	-
Extensions/discoveries	-	-	-	-	-	-	-	-
Production	(13)	-	(331)	-	(1,072)	-	(1,416)	(367)
December 31, 2017	223	-	6,164	914	14,248	-	21,549	5,318
otal proved reserves at December 31, 2017	19,256	1,372	7,532	1,509	18,588	6,894	55,151	21,221
let proved developed and undeveloped reserves of consolidated subsidiaries								
anuary 1, 2018	19,033	1,372	1,368	595	4,340	6,894	33,602	15,903
Revisions	(98)	(29)	306	38	(147)	1,065	1,135	3,626
Improved recovery	-	()	-	-	-	_,	-,	36
Purchases	104	-	-	-	-	-	104	27
Sales	(264)	(3)	(4)	-	-	-	(271)	(71)
Extensions/discoveries	3,658	506	3	-	1	7	4,175	1,654
Production	(1,030)	(102)	(361)	(45)	(353)	(504)	(2,395)	(1,097)
December 31, 2018	21,403	1,744	1,312	588	3,841	7,462	36,350	20,078
ttributable to noncontrolling interests	,	334	_,		0,0	.,		
roportional interest in proved reserves								
of equity companies					448.0		D4 E 10	
anuary 1, 2018	223	-	6,164	914	14,248	-	21,549	5,318
Revisions	12	-	(4,801)	(51)	102	-	(4,738)	(753)
Improved recovery	-	-	-	-	-	-	-	-
Purchases	-	-	-	-	-	-	-	-
Sales	-	-	(38)	-	-	-	(38)	(6)
Extensions/discoveries	2	-	-	-	-	-	2	1
Production	(12)	-	(268)	-	(1,029)	-	(1,309)	(345)
December 31, 2018	225	-	1,057	863	13,321	-	15,466	4,215
otal proved reserves at December 31, 2018	21,628	1,744	2,369	1,451	17,162	7,462	51,816	24,293

(1) Natural gas is converted to an oil-equivalent basis at six billion cubic feet per one million barrels.

Natural Gas and Oil-Equivalent Proved Reserves (continued)

]	Natural Gas				
	United States	Canada/ Other Americas	Europe	Africa	Asia	Australia/ Oceania	Total	Oil-Equivalent Total All Products (1)
			(billio	ons of cubic fe	et)			(millions of oil-
								equivalent barrels)
Net proved developed and undeveloped								
reserves of consolidated subsidiaries								
January 1, 2019	21,403	1,744	1,312	588	3,841	7,462	36,350	20,078
Revisions	(3,213)	(301)	41	(171)	953	39	(2,652)	(1,599)
Improved recovery	-	-	-	-	-	-	-	-
Purchases	85	-	-	-	-	-	85	47
Sales	(297)	(29)	(416)	-	-	-	(742)	(269)
Extensions/discoveries	2,151	166	-	-	-	-	2,317	1,484
Production	(1,103)	(114)	(316)	(40)	(361)	(500)	(2,434)	(1,145)
December 31, 2019	19,026	1,466	621	377	4,433	7,001	32,924	18,596
Attributable to noncontrolling interests	·	256						
Proportional interest in proved reserves								
of equity companies								
January 1, 2019	225	-	1,057	863	13,321	-	15,466	4,215
Revisions	(1)	-	(238)	45	142	-	(52)	(29)
Improved recovery	-	-	-	-	-	-	-	-
Purchases	-	-	-	-	-	-	-	-
Sales	-	-	-	-	-	-	-	-
Extensions/discoveries	1	-	-	-	-	-	1	1
Production	(12)	-	(238)	-	(1,009)	-	(1,259)	(338)
December 31, 2019	213	-	581	908	12,454	-	14,156	3,849
Fotal proved reserves at December 31, 2019	19,239	1,466	1,202	1,285	16,887	7,001	47,080	22,445

(1) Natural gas is converted to an oil-equivalent basis at six billion cubic feet per one million barrels.

Natural Gas and Oil-Equivalent Proved Reserves (continued)

	Natural Gas							
		Canada/						Oil-Equivalent
	United	Other	F	A 6	A .:.	Australia/	T-4-1	Total
	States	Americas	Europe	Africa	Asia	Oceania	Total	All Products (1) (millions of oil-
			(Diili	ions of cubic fe	et)			equivalent barrels)
Proved developed reserves, as of								-4
December 31, 2017								
Consolidated subsidiaries	12,649	512	1,231	584	4,030	4,420	23,426	9,724
Equity companies	154	-	4,899	-	12,898	-	17,951	4,232
Proved undeveloped reserves, as of								
December 31, 2017								
Consolidated subsidiaries	6,384	860	137	11	310	2,474	10,176	6,179
Equity companies	69	-	1,265	914	1,350	-	3,598	1,086
Total proved reserves at December 31, 2017	19,256	1,372	7,532	1,509	18,588	6,894	55,151	21,221
Proved developed reserves, as of								
December 31, 2018								
Consolidated subsidiaries	12,538	605	1,116	581	3,618	4,336	22,794	13,098
Equity companies	152	-	988	-	11,951	-	13,091	3,324
Proved undeveloped reserves, as of								
December 31, 2018								
Consolidated subsidiaries	8,865	1,139	196	7	223	3,126	13,556	6,980
Equity companies	73	-	69	863	1,370	-	2,375	891
Total proved reserves at December 31, 2018	21,628	1,744	2,369	1,451	17,162	7,462	51,816	24,293
Proved developed reserves, as of								
December 31, 2019								
Consolidated subsidiaries	11,882	613	502	377	3,508	3,765	20,647	12,075
Equity companies	143	-	505	-	9,859	-	10,507	2,691
Proved undeveloped reserves, as of								
December 31, 2019 Consolidated subsidiaries	7144	050	110		025	2 220	10 077	6 501
	7,144 70	853	119	-	925 2,595	3,236	12,277	6,521 1,158
Equity companies	/0	-	76	908	2,595	-	3,649	1,158
Total proved reserves at December 31, 2019	19,239	1,466	1,202	1,285	16,887	7,001	47,080	22,445

(1) Natural gas is converted to an oil-equivalent basis at six billion cubic feet per one million barrels.

Standardized Measure of Discounted Future Cash Flows

As required by the Financial Accounting Standards Board, the standardized measure of discounted future net cash flows is computed by applying first-day-ofthe-month average prices, year-end costs and legislated tax rates and a discount factor of 10 percent to net proved reserves. The standardized measure includes costs for future dismantlement, abandonment and rehabilitation obligations. The Corporation believes the standardized measure does not provide a reliable estimate of the Corporation's expected future cash flows to be obtained from the development and production of its oil and gas properties or of the value of its proved oil and gas reserves. The standardized measure is prepared on the basis of certain prescribed assumptions including first-day-of-the-month average prices, which represent discrete points in time and therefore may cause significant variability in cash flows from year to year as prices change.

Standardized Measure of Discounted	United	Canada/ Other				Australia/	
Future Cash Flows	States	Americas (1)	Europe	Africa	Asia	Australia/ Oceania	Total
	States	rinericus (1)		millions of doll		Occumu	Total
Consolidated Subsidiaries			,		u,		
As of December 31, 2017							
Future cash inflows from sales of oil and gas	186,126	78,870	14,794	43,223	191,254	40,814	555,081
Future production costs	78,980	42,280	4,424	14,049	53,723	8,424	201,880
Future development costs	39,996	18,150	7,480	8,897	15,156	7,951	97,630
Future income tax expenses	12,879	4,527	2,790	8,818	90,614	6,017	125,645
Future net cash flows	54,271	13,913	100	11,459	31,761	18,422	129,926
Effect of discounting net cash flows at 10%	30,574	6,158	(1,255)	2,996	17,511	8,741	64,725
Discounted future net cash flows	23,697	7,755	1,355	8,463	14,250	9,681	65,201
Equity Companies							
As of December 31, 2017							
Future cash inflows from sales of oil and gas	12,643	-	28,557	2,366	127,364	-	170,930
Future production costs	5,927	-	21,120	247	48,300	-	75,594
Future development costs	3,012	-	1,913	417	11,825	-	17,167
Future income tax expenses	-	-	1,683	514	22,396	-	24,593
Future net cash flows	3,704	-	3,841	1,188	44,843	-	53,576
Effect of discounting net cash flows at 10%	1,668	-	2,116	1,045	23,744	-	28,573
Discounted future net cash flows	2,036	-	1,725	143	21,099	-	25,003
Total consolidated and equity interests in standardized measure of discounted							
future net cash flows	25,733	7,755	3,080	8,606	35,349	9,681	90,204

(1) Includes discounted future net cash flows attributable to noncontrolling interests in ExxonMobil consolidated subsidiaries of \$1,016 million in 2017.

Standardized Measure of Discounted	United	Canada/ Other				Australia/	
Future Cash Flows (continued)	States	Americas (1)	Europe	Africa	Asia	Oceania	Total
			(millions of doll	ars)		
Consolidated Subsidiaries							
As of December 31, 2018 Future cash inflows from sales of oil and gas	265,527	204,596	23,263	47,557	241,410	67,041	849,394
Future production costs	96,489	204,390 125,469	5,023	47,557	61,674	18,081	322,755
Future development costs	54,457	29,759	7,351	8,356	13,907	8,047	121,877
Future income tax expenses	25,365	9,024	8,255	10,491	124,043	10,499	187,677
Future net cash flows	89,216	40,344	2,634	12,691	41,786	30,414	217,085
Effect of discounting net cash flows at 10%	49,176	22,315	(6)	2,957	21,509	15,030	110,981
Discounted future net cash flows	40,040	18,029	2,640	9,734	20,277	15,384	106,104
Equity Companies							
As of December 31, 2018							
Future cash inflows from sales of oil and gas	17,730	-	7,264	3,777	165,471	-	194,242
Future production costs	6,474	-	2,157	249	61,331	-	70,211
Future development costs	3,359	-	1,165	370	10,295	-	15,189
Future income tax expenses	-	-	1,612	964	30,662	-	33,238
Future net cash flows	7,897	-	2,330	2,194	63,183	-	75,604
Effect of discounting net cash flows at 10% Discounted future net cash flows	4,104	-	713	1,712	31,503	-	38,032
Discounted ruture net cash flows	3,793	-	1,617	482	31,680	-	37,572
Total consolidated and equity interests in standardized measure of discounted							
future net cash flows	43,833	18,029	4,257	10,216	51,957	15,384	143,676
Consolidated Subsidiaries							
As of December 31, 2019							
Future cash inflows from sales of oil and gas	208,981	190,604	5,789	30,194	215,837	43,599	695,004
Future production costs	90,448	133,606	3,209	10,177	58,255	12,980	308,675
Future development costs	53,641	31,158	4,397	6,756	14,113	8,109	118,174
Future income tax expenses	12,530	5,888	(594)	5,374	108,316	5,158	136,672
Future net cash flows	52,362	19,952	(1,223)	7,887	35,153	17,352	131,483
Effect of discounting net cash flows at 10%	30,499	7,728	(1,265)	872	18,658	7,491	63,983
Discounted future net cash flows	21,863	12,224	42	7,015	16,495	9,861	67,500
Equity Companies							
As of December 31, 2019	15 700		2 10 4	2 500	115 451		100 000
Future cash inflows from sales of oil and gas Future production costs	15,729 6,848	-	3,194 1,302	2,509 246	115,451 48,259	-	136,883 56,655
Future development costs	3,681	-	1,302	240 247	46,239 11,463	-	16,573
Future income tax expenses	5,001		346	555	17,891		18,792
Future net cash flows	5,200	-	364	1,461	37,838		44,863
Effect of discounting net cash flows at 10%	2,721	-	41	1,112	18,573	-	22,447
Discounted future net cash flows	2,479	-	323	349	19,265	-	22,416
Total consolidated and equity interests in							
standardized measure of discounted		40.001				0.007	co o / -
future net cash flows	24,342	12,224	365	7,364	35,760	9,861	89,916

(1) Includes discounted future net cash flows attributable to noncontrolling interests in ExxonMobil consolidated subsidiaries of \$2,823 million in 2018 and \$1,064 million in 2019.

Change in Standardized Measure of Discounted Future Net Cash Flows Relating to Proved Oil and Gas Reserves

Consolidated and Equity Interests		2017	
	Consolidated Subsidiaries	Share of Equity Method Investees	Total Consolidated and Equity Interests
		(millions of dollars)	
Discounted future net cash flows as of December 31, 2016	35,150	18,201	53,351
Value of reserves added during the year due to extensions, discoveries, improved recovery and net purchases less related costs Changes in value of previous-year reserves due to:	10,375	255	10,630
Sales and transfers of oil and gas produced during the year, net of production (lifting) costs	(24,911)	(7,358)	(32,269)
Development costs incurred during the year Net change in prices, lifting and development costs	7,066 51,703	2,020 12,782	9,086 64,485
Revisions of previous reserves estimates Accretion of discount	6,580 4,951	1,193 2,124	7,773 7,075
Net change in income taxes Total change in the standardized measure during the year	(25,713) 30,051	(4,214) 6,802	(29,927) 36,853
Discounted future net cash flows as of December 31, 2017	65,201	25,003	90,204

Consolidated and Equity Interests		2018	
			Total
		Share of	Consolidated
	Consolidated	Equity Method	and Equity
	Subsidiaries	Investees	Interests
		(millions of dollars)	
Discounted future net cash flows as of December 31, 2017	65,201	25,003	90,204
Value of reserves added during the year due to extensions, discoveries,			
improved recovery and net purchases less related costs	9,472	(134)	9,338
Changes in value of previous-year reserves due to:			
Sales and transfers of oil and gas produced during the year, net of			
production (lifting) costs	(31,706)	(9,956)	(41,662)
Development costs incurred during the year	11,500	2,762	14,262
Net change in prices, lifting and development costs	56,798	23,582	80,380
Revisions of previous reserves estimates	14,515	(2,091)	12,424
Accretion of discount	8,793	3,043	11,836
Net change in income taxes	(28,469)	(4,637)	(33,106)
Total change in the standardized measure during the year	40,903	12,569	53,472
Discounted future net cash flows as of December 31, 2018	106,104	37,572	143,676

Change in Standardized Measure of Discounted Future Net Cash Flows Relating to Proved Oil and Gas Reserves

Consolidated and Equity Interests (continued)		2019	
	Consolidated	Share of Equity Method	Total Consolidated and Equity
	Subsidiaries	Investees	Interests
		(millions of dollars)	
Discounted future net cash flows as of December 31, 2018	106,104	37,572	143,676
Value of reserves added during the year due to extensions, discoveries,			
improved recovery and net purchases/sales less related costs	(1,252)	4	(1,248)
Changes in value of previous-year reserves due to:			
Sales and transfers of oil and gas produced during the year, net of			
production (lifting) costs	(29,159)	(8,202)	(37,361)
Development costs incurred during the year	16,544	2,927	19,471
Net change in prices, lifting and development costs	(66,455)	(21,046)	(87,501)
Revisions of previous reserves estimates	4,906	657	5,563
Accretion of discount	11,433	3,956	15,389
Net change in income taxes	25,379	6,548	31,927
Total change in the standardized measure during the year	(38,604)	(15,156)	(53,760)
Discounted future net cash flows as of December 31, 2019	67,500	22,416	89,916

OPERATING INFORMATION (unaudited)

OPERATING INFORMATION (unaudited)	2019	2018	2017	2016	2015
Production of crude oil, natural gas liquids, bitumen and synthetic oil					
Net production		(thous	ands of barrels a	laily)	
United States	646	551	514	494	476
Canada/Other Americas	467	438	412	430	402
Europe	108	132	182	204	204
Africa	372	387	423	474	529
Asia	748	711	698	707	684
Australia/Oceania	45	47	54	56	50
Worldwide	2,386	2,266	2,283	2,365	2,345
Natural gas production available for sale					
Net production		(millio	ons of cubic feet	daily)	
United States	2,778	2,574	2,936	3,078	3,147
Canada/Other Americas	258	227	218	239	261
Europe	1,457	1,653	1,948	2,173	2,286
Africa	7	13	5	7	5
Asia	3,575	3,613	3,794	3,743	4,139
Australia/Oceania	1,319	1,325	1,310	887	677
Worldwide	9,394	9,405	10,211	10,127	10,515
		(thousands o	f oil-equivalent b	arrels dailv)	
Oil-equivalent production (1)	3,952	3,833	3,985	4,053	4,097
	0,002	5,000	5,505	1,000	1,007
Refinery throughput		(thous	ands of barrels a	lailv)	
United States	1,532	1,588	1,508	1,591	1,709
Canada	353	392	383	363	386
Europe	1,317	1,422	1,510	1,417	1,496
Asia Pacific	598	706	690	708	647
Other Non-U.S.	181	164	200	190	194
Worldwide	3,981	4,272	4,291	4,269	4,432
Petroleum product sales (2)	5,501	1,272	1,201	1,200	1,102
United States	2,292	2,210	2,190	2,250	2,521
Canada	476	510	499	491	488
Europe	1,479	1,556	1,597	1,519	1,542
Asia Pacific and other Eastern Hemisphere	1,156	1,200	1,164	1,140	1,124
Latin America	49	36	80	82	79
Worldwide	5,452	5,512	5,530	5,482	5,754
Gasoline, naphthas	2,220	2,217	2,262	2,270	2,363
Heating oils, kerosene, diesel oils	1,867	1,840	2,202 1,850	2,270	2,303 1,924
Aviation fuels	406 270	402 395	382 371	399 370	413 377
Heavy fuels					
Specialty petroleum products Worldwide	689	658 5,512	665 5,530	671 5 492	677 5,754
WORLWILL	5,452	3,312	5,550	5,482	3,754
Chemical prime product sales (2)		-	sands of metric t	-	
United States	9,127	9,824	9,307	9,576	9,664
Non-U.S.	17,389	17,045	16,113	15,349	15,049
Worldwide	26,516	26,869	25,420	24,925	24,713

Operating statistics include 100 percent of operations of majority-owned subsidiaries; for other companies, crude production, gas, petroleum product and chemical prime product sales include ExxonMobil's ownership percentage and refining throughput includes quantities processed for ExxonMobil. Net production excludes royalties and quantities due others when produced, whether payment is made in kind or cash.

(1) Natural gas is converted to an oil-equivalent basis at six million cubic feet per one thousand barrels.

(2) Petroleum product and chemical prime product sales data reported net of purchases/sales contracts with the same counterparty.

	INDEX TO EXHIBITS				
Exhibit	Description				
<u>3(i)</u>	Restated Certificate of Incorporation, as restated November 30, 1999, and as further amended effective June 20, 2001 (incorporated by reference to Exhibit 3(i) to the Registrant's Annual Report on Form 10-K for 2015).				
<u>3(ii)</u>	By-Laws, as revised effective November 1, 2017 (incorporated by reference to Exhibit 3(ii) to the Registrant's Report on Form 8-K of October 31, 2017).				
<u>4(vi)</u>	Description of ExxonMobil Capital Stock.				
<u>10(iii)(a.1)</u>	2003 Incentive Program, as approved by shareholders May 28, 2003 (incorporated by reference to Exhibit 10(iii)(a.1) to the Registrant's Annual Report on Form 10-K for 2017).*				
<u>10(iii)(a.2)</u>	Extended Provisions for Restricted Stock Agreements (incorporated by reference to Exhibit 10(iii)(a.2) to the Registrant's Annual Report on Form 10-K for 2016).*				
<u>10(iii)(a.3)</u>	Extended Provisions for Restricted Stock Unit Agreements – Settlement in Shares.*				
<u>10(iii)(b.1)</u>	Short Term Incentive Program, as amended (incorporated by reference to Exhibit 10(iii)(b.1) to the Registrant's Annual Report on Form 10-K for 2018).*				
<u>10(iii)(b.2)</u>	Earnings Bonus Unit instrument.*				
<u>10(iii)(c.1)</u>	ExxonMobil Supplemental Savings Plan (incorporated by reference to Exhibit 10(iii)(c.1) to the Registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017).*				
<u>10(iii)(c.2)</u>	ExxonMobil Supplemental Pension Plan (incorporated by reference to Exhibit 10(iii)(c.2) to the Registrant's Annual Report on Form 10-K for 2014).*				
<u>10(iii)(c.3)</u>	ExxonMobil Additional Payments Plan (incorporated by reference to Exhibit 10(iii)(c.3) to the Registrant's Annual Report on Form 10-K for 2018).*				
<u>10(iii)(d)</u>	ExxonMobil Executive Life Insurance and Death Benefit Plan (incorporated by reference to Exhibit 10(iii)(d) to the Registrant's Annual Report on Form 10-K for 2016).*				
<u>10(iii)(f.1)</u>	2004 Non-Employee Director Restricted Stock Plan (incorporated by reference to Exhibit 10(iii)(f.1) to the Registrant's Annual Report on Form 10-K for 2018).*				
<u>10(iii)(f.2)</u>	Standing resolution for non-employee director restricted grants dated September 26, 2007 (incorporated by reference to Exhibit 10(iii)(f.2) to the Registrant's Annual Report on Form 10-K for 2016).*				
<u>10(iii)(f.3)</u>	Form of restricted stock grant letter for non-employee directors.*				
<u>10(iii)(f.4)</u>	Standing resolution for non-employee director cash fees dated October 26, 2011 (incorporated by reference to Exhibit 10(iii)(f.4) to the Registrant's Annual Report on Form 10-K for 2015).*				
<u>14</u>	Code of Ethics and Business Conduct (incorporated by reference to Exhibit 14 to the Registrant's Annual Report on Form 10-K for 2017).				
<u>21</u>	Subsidiaries of the registrant.				
<u>23</u>	Consent of PricewaterhouseCoopers LLP, Independent Registered Public Accounting Firm.				
<u>31.1</u>	Certification (pursuant to Securities Exchange Act Rule 13a-14(a)) by Chief Executive Officer.				
<u>31.2</u>	Certification (pursuant to Securities Exchange Act Rule 13a-14(a)) by Principal Financial Officer.				
<u>31.3</u>	Certification (pursuant to Securities Exchange Act Rule 13a-14(a)) by Principal Accounting Officer.				
<u>32.1</u>	Section 1350 Certification (pursuant to Sarbanes-Oxley Section 906) by Chief Executive Officer.				
<u>32.2</u>	Section 1350 Certification (pursuant to Sarbanes-Oxley Section 906) by Principal Financial Officer.				
<u>32.3</u>	Section 1350 Certification (pursuant to Sarbanes-Oxley Section 906) by Principal Accounting Officer.				
101	Interactive data files (formatted as Inline XBRL).				
104	Cover page interactive data file (formatted as Inline XBRL and contained in Exhibit 101).				
* Compe	ensatory plan or arrangement required to be identified pursuant to Item 15(a)(3) of this Annual Report on Form 10-K.				

The registrant has not filed with this report copies of the instruments defining the rights of holders of long-term debt of the registrant and its subsidiaries for which consolidated or unconsolidated financial statements are required to be filed. The registrant agrees to furnish a copy of any such instrument to the Securities and Exchange Commission upon request.

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

EXXON MOBIL CORPORATION

By: /s/ DARREN W. WOODS

(Darren W. Woods, Chairman of the Board)

Dated February 26, 2020

POWER OF ATTORNEY

Each person whose signature appears below constitutes and appoints Leonard M. Fox, Jeremy R. Osterstock, and Richard C. Vint and each of them, his or her true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign any and all amendments to this Annual Report on Form 10-K, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his or her substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities indicated and on February 26, 2020.

/s/ DARREN W. WOODS	Chairman of the Board
(Darren W. Woods)	(Principal Executive Officer)
/s/ SUSAN K. AVERY	Director
(Susan K. Avery)	
/s/ ANGELA F. BRALY	Director
(Angela F. Braly)	
/s/ URSULA M. BURNS	Director
(Ursula M. Burns)	
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/s/ KENNETH C. FRAZIER	Director
(Kenneth C. Frazier)	
/s/ JOSEPH L. HOOLEY	Director
(Joseph L. Hooley)	
/s/ STEVEN A. KANDARIAN	Director
(Steven A. Kandarian)	
/s/ DOUGLAS R. OBERHELMAN (Douglas R. Oberhelman)	Director
(Douglas R. Obernemian)	
/s/ SAMUEL J. PALMISANO	Director
(Samuel J. Palmisano)	
/s/ STEVEN S REINEMUND	Director
(Steven S Reinemund)	
/s/ WILLIAM C. WELDON	Director
(William C. Weldon)	
/s/ ANDREW P. SWIGER	Senior Vice President
(Andrew P. Swiger)	(Principal Financial Officer)
/s/ DAVID S. ROSENTHAL	Vice President and Controller
(David S. Rosenthal)	(Principal Accounting Officer)

DESCRIPTION OF EXXONMOBIL CAPITAL STOCK

The following description of the terms of ExxonMobil's capital stock is a summary only and is qualified by reference to the relevant provisions of New Jersey law and the ExxonMobil restated certificate of incorporation and by-laws.

Authorized Capital Stock

Under the ExxonMobil restated certificate of incorporation, ExxonMobil's authorized capital stock consists of nine billion (9,000,000,000) shares of common stock, without par value, and two hundred million (200,000,000) shares of preferred stock, without par value.

Description of Common Stock

Voting Rights. Each holder of ExxonMobil common stock is entitled to one vote for each share of ExxonMobil common stock held of record on the applicable record date on all matters submitted to a vote of shareholders.

Dividend Rights. Holders of ExxonMobil common stock are entitled to receive such dividends as may be declared from time to time by ExxonMobil's board of directors out of funds legally available therefor, subject to any preferential dividend rights granted to the holders of any outstanding ExxonMobil preferred stock.

Rights upon Liquidation. Holders of ExxonMobil common stock are entitled to share pro rata, upon any liquidation, dissolution or winding up of ExxonMobil, in all remaining assets available for distribution to shareholders after payment of or provision for ExxonMobil's liabilities and the liquidation preference of any outstanding ExxonMobil preferred stock.

Preemptive Rights. Holders of ExxonMobil common stock have no preemptive rights to purchase, subscribe for or otherwise acquire any unissued or treasury shares or other securities.

Description of Preferred Stock

Preferred Stock Outstanding. As of the date of this filing, no shares of ExxonMobil preferred stock were issued and outstanding.

Blank Check Preferred Stock. Under the ExxonMobil restated certificate of incorporation, the ExxonMobil board of directors has the authority, without shareholder approval, to create one or more classes or series within a class of preferred stock, to issue shares of preferred stock in such class or series up to the maximum number of shares of the relevant class or series of preferred stock authorized, and to determine the preferences, rights, privileges and restrictions of any such class or series, including the dividend rights, voting rights, the rights and terms of redemption, the rights and terms of conversion, liquidation preferences, the number of shares constituting any such class or series and the designation of such class or series. Acting under this authority, the ExxonMobil board of directors could create and issue a class or series of preferred stock with rights, privileges or restrictions, and adopt a shareholder rights plan, having the effect of discriminating against an existing or prospective holder of securities as a result of such shareholder beneficially owning or commencing a tender offer for a substantial amount of ExxonMobil common stock. One of the effects of authorized but unissued and unreserved shares of capital stock may be to render more difficult or discourage an attempt by a potential acquirer to obtain control of ExxonMobil by means of a merger, tender offer, proxy contest or otherwise, and thereby protect the continuity of ExxonMobil's management. The issuance of such shares of capital stock may have the effect of delaying, deferring or preventing a change in control of ExxonMobil without any further action by the shareholders of ExxonMobil. ExxonMobil has no present intention to adopt a shareholder rights plan, but could do so without shareholder approval at any future time.

ExxonMobil has designated 16,500,000 shares of ExxonMobil preferred stock as Class A Preferred Stock, none of which are outstanding, and 165,800 shares of ExxonMobil preferred stock as Class B Preferred Stock, none of which are outstanding.

Transfer Agent and Registrar

Computershare Trust Company, N.A. is the transfer agent and registrar for ExxonMobil common stock.

Exxon Mobil Corporation

Extended Provisions for Restricted Stock Unit Agreements - Settlement in Shares

- 1. <u>Effective Date and Credit of Restricted Stock Units</u>. If Grantee accepts the award on or before March 1, 2020, this Agreement will become effective the date the Corporation receives the award acceptance. After this agreement becomes effective, the Corporation will credit to Grantee the number of restricted stock units specified in the award package. Subject to the terms and conditions of this Agreement, each restricted stock unit ("unit") will entitle Grantee to receive in settlement of the unit one share of the Corporation's common stock.
- 2. <u>Conditions</u>. If credited, the units will be subject to the provisions of this Agreement, and to such regulations and requirements as the administrative authority of the Program may establish from time to time. The units will be credited to Grantee only on the condition that Grantee accepts such provisions, regulations, and requirements.
- 3. **<u>Restrictions and Risk of Forfeiture</u>**. During the applicable restricted periods specified in section 4 of this Agreement,
 - (a) the units under restriction may not be sold, assigned, transferred, pledged, or otherwise disposed of or encumbered, and any attempt to do so will be null and void; and
 - (b) the units under restriction may be forfeited as provided in section 6.
- 4. <u>Restricted Periods</u>. The restricted periods will commence when the units are credited to Grantee and, unless the units have been forfeited earlier under section 6, will expire as follows, whether or not Grantee is still an employee:
 - (a) with respect to 50% of the units, on November 26, 2024; and
 - (b) with respect to the remaining units, on the later to occur of
 - (i) November 26, 2029, or
 - (ii) the first day of the calendar year immediately following the year in which Grantee terminates; except that
 - (c) the restricted periods will automatically expire with respect to all shares on the death of Grantee.
- 5. <u>No Obligation to Credit Units</u>. The Corporation will have no obligation to credit any units and will have no other obligation to Grantee with respect to the subject matter of this Agreement if Grantee fails to accept the award on or before March 1, 2020. In addition, whether or not Grantee has accepted the award, the Corporation will have no obligation to credit any units and will have no other obligation to Grantee with respect to the subject matter of this Agreement if, before the units are credited:
 - (a) Grantee terminates (other than by death) before standard retirement time within the meaning of the Program, except to the extent the administrative authority of the Program determines Grantee may receive units under this Agreement; or
 - (b) Grantee is determined to have engaged in detrimental activity within the meaning of the Program.
- 6. **Forfeiture of Units After Crediting.** Until the applicable restricted period specified in section 4 has expired, the units under restriction will be forfeited or subject to forfeiture in the following circumstances:

Termination

If Grantee terminates (other than by death) before standard retirement time within the meaning of the Program, all units for which the applicable restricted periods have not expired will be automatically forfeited as of the date of termination, except to the extent the administrative authority determines Grantee may retain units issued under this Agreement.

Detrimental activity

If Grantee is determined to have engaged in detrimental activity within the meaning of the Program, either before or after termination, all units for which the applicable restricted periods have not expired will be automatically forfeited as of the date of such determination.

Attempted transfer

The units are subject to forfeiture in the discretion of the administrative authority if Grantee attempts to sell, assign, transfer, pledge, or otherwise dispose of or encumber them during the applicable restricted periods.

Applicable law

The units are subject to forfeiture in whole or in part as the administrative authority deems necessary to comply with applicable law or Corporation policy including, without limitation, any clawback obligations determined to be owed by Grantee to the Corporation in connection with this or other awards.

- 7. <u>Taxes</u>. Notwithstanding the restrictions on transfer that otherwise apply, the Corporation in its sole discretion may withhold units, or shares otherwise deliverable in settlement of units, either at the time of crediting, at the time of settlement, or at any other time in order to satisfy any required withholding, social security, and similar taxes or contributions (collectively, "required taxes"). Withheld units or shares may be retained by the Corporation or sold on behalf of Grantee. The Corporation in its sole discretion may also withhold any required taxes from dividend equivalents paid on the units.
- 8. **Form of Units; No Shareholder Status**. The units will be represented by book-entry credits in records maintained by or on behalf of the Corporation. Units will be unfunded and unsecured promises by the Corporation to deliver shares in the future upon the terms and subject to the conditions of this Agreement. Grantee will not be a shareholder of the Corporation with respect to units prior to the time shares are actually registered in Grantee's name in settlement of such units in accordance with section 9.
- 9. <u>Settlement of Units</u>. If and when the applicable restricted period expires with respect to any units, subject to section 7, the Corporation will issue shares, free of restriction and registered in the name of Grantee, in settlement of such units. Such shares will be delivered promptly after such expiration to or for the account of Grantee either in certificated form or by book-entry transfer in accordance with the procedures of the administrative authority in effect at the time.
- 10. **Dividend Equivalents**. The Corporation will pay to Grantee cash with respect to each credited unit corresponding in amount, currency, and timing to cash dividends that would be payable with respect to a share of common stock outstanding on each record date that occurs during the applicable restricted period. Alternatively, the administrative authority may determine to reinvest such dividend equivalents in additional units which will be held subject to all the terms and conditions otherwise applicable to units under this Agreement.
- 11. <u>Change in Capitalization</u>. If during the applicable restricted periods a stock split, stock dividend, or other relevant change in capitalization of the Corporation occurs, the administrative authority will make such adjustments in the number of units credited to Grantee, or in the number and type of securities deliverable to Grantee in settlement of such units and used in determining dividend equivalent amounts, as the administrative authority may determine to be appropriate. Any resulting new units or securities credited with respect to previously credited units that are still restricted under this Agreement will be delivered to and held by or on behalf of the Corporation and will be subject to the same provisions, restrictions, and requirements as those previously credited units.
- 12. <u>Limits on the Corporation's Obligations</u>. Notwithstanding anything else contained in this Agreement, under no circumstances will the Corporation be required to credit any units or issue or deliver any shares in settlement of units if doing so would violate any law or listing requirement that the administrative authority determines to be applicable.
- 13. Receipt or Access to Program. Grantee acknowledges receipt of or access to the full text of the Program.
- 14. <u>Addresses for Communications</u>. To facilitate communications regarding this Agreement, Grantee agrees to notify the Corporation promptly of changes in current mailing and email addresses. Communications to the Corporation in connection with this Agreement should be directed to the Incentive Processing Office, or to such other address as the Corporation may designate by further notice to Grantee.
- 15. **Transfer of Personal Data**. The administration of the Program and this Agreement, including any subsequent ownership of shares, involve the collection, use, and transfer of personal data about Grantee between and among the Corporation, selected subsidiaries and other affiliates of the Corporation, and third-party service providers such as Morgan Stanley and Computershare (the Corporation's transfer agent), as well as various regulatory and tax authorities around the world. This data includes Grantee's name, age, date of birth, contact information, work location, employment status, tax status, social security number, salary, nationality, job title, share ownership, and details of incentive awards granted, cancelled, vested or unvested, and related information. By accepting this award, Grantee authorizes such collection, use, and transfer of this data. Grantee may, at any time and without charge, view such data and require necessary corrections to it. Such data will at all times be held in accordance with applicable laws, regulations, and agreements. For more information on data privacy, see the data privacy statement on the Incentive Award Program Intranet website.

- 16. **No Employment Contract or Entitlement to Other or Future Awards**. This Agreement, the Corporation's incentive programs, and Grantee's selection for incentive awards do not imply or form a part of any contract or assurance of employment, and they do not in any way limit or restrict the ability of Grantee's employer to terminate Grantee's employment. Grantee acknowledges that the Corporation maintains and administers its incentive programs entirely in its discretion and that Grantee is not entitled to any other or future incentive awards of any kind in addition to those that have already been granted.
- 17. <u>Governing Law and Consent to Jurisdiction</u>. This Agreement and the Program are governed by the laws of the State of New York without regard to any conflict of law rules. Any dispute arising out of or relating to this Agreement or the Program may be resolved in any state or federal court located within Dallas County, Texas, U.S.A. Grantee accepts that venue and submits to the personal jurisdiction of any such court. Similarly, the Corporation accepts such venue and submits to such jurisdiction.
- 18. Entire Agreement. This Agreement constitutes the entire understanding between Grantee and the Corporation with respect to the subject matter of this Agreement.

EXXON MOBIL CORPORATION EARNINGS BONUS UNIT AWARD

		Maximum	Maximum
		Settlement	Settlement
	Number	Value Per	Value of
<u>Name of Grantee</u>	of EBUs	EBU	Award
		\$6.50	

This **EARNINGS BONUS UNIT AWARD** is granted in Dallas County, Texas by Exxon Mobil Corporation (the "Corporation") effective November 26, 2019 (the "date of grant"), pursuant to the Short Term Incentive Program adopted by the Board of Directors of the Corporation on October 27, 1993, as amended (the "Program"). This award is subject to the provisions of this instrument and the Program and to such regulations and requirements as may be stipulated from time to time by the administrative authority defined in the Program and is granted on the condition that Grantee accepts such provisions, regulations, and requirements. This instrument incorporates by reference the provisions of the Program, as it may be amended from time to time, including without limitation the definitions of terms used in this instrument and defined in the Program.

1. <u>Award</u>. The Corporation has granted to Grantee the number of earnings bonus units ("EBUs") set forth above, with each EBU having the maximum settlement value set forth above. Subject to the other terms of this award, Grantee has the right, for each of these EBUs, to receive from the Corporation, promptly after the settlement date defined below, an amount of cash equal to the Corporation's cumulative earnings per common share (assuming dilution) as reflected in its quarterly earnings statements as initially filed in its quarterly or annual reports with the U.S. Securities and Exchange Commission commencing with earnings for the first full quarter following the date of grant to and including the last full quarter preceding the settlement date; provided, however, that the amount of such settlement will not exceed the maximum settlement value specified above.

2. <u>Settlement Date</u>. The settlement date of these EBUs will be the earlier of (i) the date of publication of the Corporation's quarterly earnings statement for the twelfth (12th) full quarter following the date of grant, or (ii) the date of publication of the Corporation's quarterly earnings statement which brings the cumulative earnings per common share (assuming dilution) as initially filed in its quarterly or annual reports with the U.S. Securities and Exchange Commission commencing with the first full quarter following the date of grant to an amount at least equal to the maximum settlement value per EBU specified above.

3. Annulment. This award is provisional until the Corporation actually pays cash in settlement of the award.

(a) If, before the Corporation pays such cash, Grantee terminates (other than by death) before standard retirement time within the meaning of the Program, this award will automatically expire as of the date of termination, except to the extent the administrative authority determines Grantee may retain this award.

(b) If, before the Corporation pays such cash, Grantee is determined to have engaged in detrimental activity within the meaning of the Program, this award will automatically expire as of the date of such determination.

(c) Provisional awards held by executive officers may also be subject to cancellation to comply with applicable law or Corporation policy including, without limitation, any clawback obligations determined to be owed by Grantee to the Corporation in connection with this or other awards.

4. <u>Adjustments</u>. The number of EBUs covered by this award and the meaning of the term "common share" will be adjusted by the administrative authority as it deems appropriate to give effect to any stock split, stock dividend or other relevant change in capitalization of the Corporation after the date of grant and prior to the settlement date.

5. <u>Governing Law and Consent to Jurisdiction</u>. This award and the Program are governed by the laws of the State of New York without regard to any conflict of law rules. Any dispute arising out of or relating to this award or the Program may be resolved in any state or federal court located within Dallas County, Texas, U.S.A. This award is issued on the condition that Grantee accepts such venue and submits to the personal jurisdiction of any such court. Similarly, the Corporation accepts such venue and submits to such jurisdiction.

EXXON MOBIL CORPORATION

Exxon Mobil Corporation 5959 Las Colinas Boulevard Irving, TX 75039

January 2, 2020

Neil A. Hansen Vice President, Investor Relations and Corporate Secretary



[Name of Non-Employee Director]

I am pleased to inform you that on January 2, 2020, you were granted 2,500 shares of restricted stock under Exxon Mobil Corporation's 2004 Non-Employee Director Restricted Stock Plan (the "Plan") and in accordance with the Board's standing resolution regarding grants under the Plan. This letter summarizes key terms of your award and is qualified by reference to the Plan. You should refer to the text of the Plan for a detailed description of the terms and conditions of your award. Copies of the Plan have been previously distributed to you and are also available on request to me at any time.

The restricted stock has been registered in your name and will be held in book-entry form by the Corporation's agent during the restricted period. As the owner of record, you have the right to vote the shares and receive cash dividends. However, during the restricted period the shares may not be sold, assigned, transferred, pledged, or otherwise disposed of or encumbered, and your restricted stock account will be subject to stop transfer instructions. When the restricted period expires, shares will be delivered to or for your account free of restrictions.

The restricted period for this award began at the time of grant. The restricted period will expire when you leave the Board after reaching retirement age (currently, age 72) or by reason of death. If you leave the Board before reaching retirement age, your restricted stock will be forfeited unless the Board determines to lift the restrictions at that time. By accepting this award, you agree to all its terms and conditions, including the restrictions on transfer and events of forfeiture.

You are entitled to designate a beneficiary for your restricted stock account. Please contact Cindy Kessel Guild at (972) 940-6708 for the necessary form should you wish to do so. Additional information concerning your award, including information on the tax consequences of your award and certain additional information required by the Securities Act of 1933, is also enclosed with this letter.

Should you have any questions concerning the Plan or this award, please feel free to contact me at (972) 940-6716.

Sincerely,

Enclosures

[signed by Neil A. Hansen]

	Percentage of		
	Voting Securities		
	Owned Directly		
	or Indirectly by	State or	
	Registrant	Country of Organization	
Aera Energy LLC (5)	48.2	California	
AKG Marketing Company Limited	87.5	Bahamas	
Al-Jubail Petrochemical Company (4) (5)	50	Saudi Arabia	
Alberta Products Pipe Line Ltd. (5)	45	Canada	
Ampolex (Cepu) Pte Ltd	100	Singapore	
Ancon Insurance Company, Inc.	100	Vermont	
Barnett Gathering, LLC	100	Texas	
Barzan Gas Company Limited (5)	7 Qatar		
BEB Erdgas und Erdoel GmbH & Co. KG (4) (5)	50	Germany	
Cameroon Oil Transportation Company S.A. (5)	41.06	Cameroon	
Canada Imperial Oil Limited	69.6	Canada	
Caspian Pipeline Consortium (5)	7.5	Russia/Kazakhstan	
Coral FLNG, S.A. (5)	25	Mozambique	
Cross Timbers Energy, LLC (4) (5)	50	Delaware	
Ellora Energy Inc.	100	Delaware	
Esso Australia Resources Pty Ltd	100	Australia	
Esso Deutschland GmbH			
	100	Germany	
Esso Erdgas Beteiligungsgesellschaft mbH	100	Germany	
Esso Exploration and Production Angola (Overseas) Limited	100	Bahamas	
Esso Exploration and Production Chad Inc.	100	Bahamas	
Esso Exploration and Production Guyana Limited	100	Bahamas	
Esso Exploration and Production Nigeria (Deepwater) Limited	100	Nigeria	
Esso Exploration and Production Nigeria (Offshore East) Limited	100	Nigeria	
Esso Exploration and Production Nigeria Limited	100	Nigeria	
Esso Exploration and Production UK Limited	100	United Kingdom	
Esso Exploration Angola (Block 15) Limited	100	Bahamas	
Esso Exploration Angola (Block 17) Limited	100	Bahamas	
Esso Global Investments Ltd.	100	Bahamas	
Esso Italiana S.r.l.	100	Italy	
Esso Nederland B.V.	100	Netherlands	
Esso Norge AS	100	Norway	
Esso Petroleum Company, Limited	100	United Kingdom	
Esso Raffinage	82.89	France	
Esso Societe Anonyme Francaise	82.89	France	
Esso (Thailand) Public Company Limited	65.99	Thailand	
Exxon Azerbaijan Limited	100	Bahamas	
Exxon Chemical Arabia Inc.	100	Delaware	
Exxon International Finance Company	100	Delaware	
Exxon Luxembourg Holdings LLC	100	Delaware	
Exxon Neftegas Limited	100	Bahamas	
Exxon Overseas Corporation	100	Delaware	
Exxon Overseas Investment Corporation	100	Delaware	
ExxonMobil (China) Investment Co., Ltd.	100	China	

	Percentage of	
	Voting Securities	
	Owned Directly	<u>Chattanan</u>
	or Indirectly by	State or
Enner Mahil (Taisana) Datualanna Carllad	Registrant	Country of Organization
ExxonMobil (Taicang) Petroleum Co., Ltd.	100	China
ExxonMobil Abu Dhabi Offshore Petroleum Company Limited	100	Bahamas
ExxonMobil Alaska Production Inc.	100	Delaware
ExxonMobil Asia Pacific Pte. Ltd.	100	Singapore
ExxonMobil Australia Pty Ltd	100	Australia
ExxonMobil Barzan Limited	100	Bahamas
ExxonMobil Canada Energy	100	Canada
ExxonMobil Canada Ltd.	100	Canada
ExxonMobil Canada Properties	100	Canada
ExxonMobil Canada Resources Company	100	Canada
ExxonMobil Capital Finance Company	100	Delaware
ExxonMobil Capital Netherlands B.V.	100	Netherlands
ExxonMobil Central Europe Holding GmbH	100	Germany
ExxonMobil Cepu Limited	100	Bermuda
ExxonMobil Chemical France	100	France
ExxonMobil Chemical Gulf Coast Investments LLC	100	Delaware
ExxonMobil Chemical Holland B.V.	100	Netherlands
ExxonMobil Chemical Services (Shanghai) Co., Ltd.	100	China
ExxonMobil China Petroleum & Petrochemical Company Limited	100	Bahamas
ExxonMobil Delaware Holdings Inc.	100	Delaware
ExxonMobil Development Africa B.V.	100	Netherlands
ExxonMobil Egypt (S.A.E.)	100	Egypt
ExxonMobil Exploracao Brasil Ltda.	100	Brazil
ExxonMobil Exploration and Production Malaysia Inc.	100	Delaware
ExxonMobil Exploration and Production Norway AS	100	Norway
ExxonMobil Exploration and Production Romania Limited	100	Bahamas
ExxonMobil Exploration and Production Tanzania Limited	100	Bahamas
ExxonMobil Financial Investment Company Limited	100	United Kingdom
ExxonMobil Gas Marketing Europe Limited	100	United Kingdom
ExxonMobil Global Services Company	100	Delaware
ExxonMobil Golden Pass Surety LLC	100	Delaware
ExxonMobil Holding Company Holland LLC	100	Delaware
ExxonMobil Holding Norway AS	100	Norway
ExxonMobil Hong Kong Limited	100	Hong Kong
ExxonMobil International Holdings Inc.	100	Delaware
ExxonMobil International Services SARL	100	Luxembourg
ExxonMobil Iraq Limited	100	Bahamas
ExxonMobil Italiana Gas S.r.l.	100	Italy
ExxonMobil Kazakhstan Inc.	100	Bahamas
ExxonMobil Kazakhstan Ventures Inc.		Delaware
ExxonMobil LNG Services B.V.	100 100	Netherlands
	100	Delaware
ExxonMobil Lubricants Trading Company		
ExxonMobil Oil Corporation	100	New York
ExxonMobil Petroleum & Chemical BV	100	Belgium

	Percentage of	
	Voting Securities	
	Owned Directly	
	or Indirectly by	State or
	Registrant	Country of Organization
ExxonMobil Petroleum & Chemical Holdings Inc.	100	Delaware
ExxonMobil Pipeline Company	100	Delaware
ExxonMobil PNG Antelope Limited	100	Papua New Guinea
ExxonMobil PNG Limited	100	Papua New Guinea
ExxonMobil Production Deutschland GmbH	100	Germany
ExxonMobil Qatargas Inc.	100	Delaware
ExxonMobil Qatargas (II) Limited	100	Bahamas
ExxonMobil Ras Laffan (III) Limited	100	Bahamas
ExxonMobil Rasgas Inc.	100	Delaware
ExxonMobil Research and Engineering Company	100	Delaware
ExxonMobil Sales and Supply LLC	100	Delaware
ExxonMobil Technology Finance Company	100	Delaware
ExxonMobil Upstream Integrated Solutions Company	100	Delaware
ExxonMobil Ventures Finance Company	100	Delaware
ExxonMobil Ventures Funding Ltd.	100	Bahamas
Fujian Refining & Petrochemical Co. Ltd. (5)	25	China
Golden Pass LNG Terminal Investments LLC	100	Delaware
Golden Pass LNG Terminal LLC (5)	30	Delaware
Golden Pass Pipeline LLC (5)	30	Delaware
Gulf Coast Growth Ventures LLC (4) (5)	50	Delaware
Imperial Oil Limited	69.6	Canada
Imperial Oil Resources Limited	69.6	Canada
Imperial Oil Resources N.W.T. Limited	69.6	Canada
Imperial Oil/Petroliere Imperiale	69.6	Canada
Infineum Italia s.r.I. (4) (5)	50	Italy
Infineum Singapore LLP (4) (5)	50	Singapore
Marine Well Containment Company LLC (5)	10	Delaware
Mid-Point Pipeline LLC	100	Delaware
Mobil Australia Resources Company Pty Limited	100	Australia
Mobil California Exploration & Producing Asset Company	100	Delaware
Mobil Caspian Pipeline Company	100	Delaware
Mobil Chemical Products International Inc.	100	Delaware
Mobil Corporation	100	Delaware
Mobil Equatorial Guinea Inc.	100	Delaware
Mobil Erdgas Verwaltungsgesellschaft mbH	100	Germany
Mobil Exploration & Producing Australia Pty Ltd	100	Australia
Mobil International Finance Corporation	100	Delaware
Mobil International Petroleum Corporation	100	Delaware
Mobil Oil Australia Pty Ltd	100	Australia
Mobil Oil Exploration & Producing Southeast Inc.	100	Delaware
Mobil Oil New Zealand Limited	100	New Zealand
Mobil Producing Nigeria Limited	100	Nigeria
Mobil Producing Texas & New Mexico Inc.	100	Delaware
Mobil Services (Bahamas) Limited	100	Bahamas

	Percentage of	
	Voting Securities	
	Owned Directly	
	or Indirectly by	State or
	Registrant	Country of Organization
Mobil Venezolana De Petroleos Inc.	100	Bahamas
Mobil Yanbu Petrochemical Company Inc.	100	Delaware
Mobil Yanbu Refining Company Inc.	100	Delaware
Mountain Gathering, LLC	100	Delaware
Mozambique Rovuma Venture, S.p.A. (5)	35.714	Italy
Nederlandse Aardolie Maatschappij B.V. (4) (5)	50	Netherlands
Palmetto Transoceanic LLC	100	Delaware
Papua New Guinea Liquefied Natural Gas Global Company LDC (5)	33.2	Bahamas
Permian Express Partners LLC (5)	12.3	Delaware
Permian Highway Pipeline LLC (5)	20	Delaware
Phillips Exploration, LLC	100	Delaware
Qatar Liquefied Gas Company Limited (5)	10	Qatar
Qatar Liquefied Gas Company Limited (2) (5)	24.15	Qatar
Ras Laffan Liquefied Natural Gas Company Limited (5)	24.999	Qatar
Ras Laffan Liquefied Natural Gas Company Limited (II) (5)	30.517	Qatar
Ras Laffan Liquefied Natural Gas Company Limited (3) (5)	30	Qatar
Saudi Aramco Mobil Refinery Company Ltd. (4) (5)	50	Saudi Arabia
Saudi Yanbu Petrochemical Co. (4) (5)	50	Saudi Arabia
SeaRiver Maritime, Inc.	100	Delaware
SeaRiver Maritime LLC	100	Delaware
South Hook LNG Terminal Company Limited (5)	24.15	United Kingdom
Tengizchevroil, LLP (5)	25	Kazakhstan
Terminale GNL Adriatico S.r.l (5)	70.678	Italy
Wink to Webster Pipeline LLC	45	Delaware
Wolverine Pipe Line Company	53.39	Delaware
XH, LLC	100	Delaware
XTO Delaware Basin, LLC	100	Texas
XTO Energy Canada	84.8	Canada
XTO Energy Inc.	100	Delaware
XTO Holdings, LLC	100	Delaware
XTO Permian Midstream, LLC	100	Delaware
XTO Permian Operating, LLC	100	Texas

NOTES:

- (1) For the purposes of this list, if the registrant owns directly or indirectly approximately 50 percent of the voting securities of any person and approximately 50 percent of the voting securities of such person is owned directly or indirectly by another interest, or if the registrant includes its share of net income of any other unconsolidated person in consolidated net income, such person is deemed to be a subsidiary.
- (2) With respect to certain companies, shares in names of nominees and qualifying shares in names of directors are included in the above percentages.
- (3) The names of other subsidiaries have been omitted from the above list since considered in the aggregate, they would not constitute a significant subsidiary under Securities and Exchange Commission Regulation S-X, Rule 1-02(w).
- (4) The registrant owns directly or indirectly approximately 50 percent of the securities of this person and approximately 50 percent of the voting securities of this person is owned directly or indirectly by another single interest.
- (5) The investment in this unconsolidated person is represented by the registrant's percentage interest in the underlying net assets of such person. The accounting for these unconsolidated persons is referred to as the equity method of accounting.

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the following Exxon Mobil Corporation Registration Statements on:

Form S-3	(No.	333-216594)	_	Exxon Mobil Corporation Debt Securities;
Form S-8	(Nos.	333-145188, 333-110494,	_	2003 Incentive Program of Exxon Mobil Corporation;
	and	333-183012)		
Form S-8	(No.	333-166576)	_	ExxonMobil Savings Plan;
Form S-8	(No.	333-117980)	—	2004 Non-employee Director Restricted Stock Plan

of our report dated February 26, 2020 relating to the financial statements and the effectiveness of internal control over financial reporting, which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP

Dallas, Texas February 26, 2020

Certification by Darren W. Woods Pursuant to Securities Exchange Act Rule 13a-14(a)

I, Darren W. Woods, certify that:

- 1. I have reviewed this annual report on Form 10-K of Exxon Mobil Corporation;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, 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;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 26, 2020

/s/ DARREN W. WOODS

Darren W. Woods Chief Executive Officer

Certification by Andrew P. Swiger Pursuant to Securities Exchange Act Rule 13a-14(a)

I, Andrew P. Swiger, certify that:

- 1. I have reviewed this annual report on Form 10-K of Exxon Mobil Corporation;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, 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;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 26, 2020

/s/ ANDREW P. SWIGER

Andrew P. Swiger Senior Vice President (Principal Financial Officer)

Certification by David S. Rosenthal Pursuant to Securities Exchange Act Rule 13a-14(a)

I, David S. Rosenthal, certify that:

- 1. I have reviewed this annual report on Form 10-K of Exxon Mobil Corporation;
- 2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officers and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, 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;
 - (c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officers and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 26, 2020

/s/ DAVID S. ROSENTHAL

David S. Rosenthal Vice President and Controller (Principal Accounting Officer)

Certification of Periodic Financial Report Pursuant to 18 U.S.C. Section 1350

For purposes of 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned, Darren W. Woods, the chief executive officer of Exxon Mobil Corporation (the "Company"), hereby certifies that, to his knowledge:

- (i) the Annual Report on Form 10-K of the Company for the year ended December 31, 2019, as filed with the Securities and Exchange Commission on the date hereof (the "Report") fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (ii) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 26, 2020

/s/ DARREN W. WOODS

Darren W. Woods Chief Executive Officer

A signed original of this written statement required by Section 906 has been provided to Exxon Mobil Corporation and will be retained by Exxon Mobil Corporation and furnished to the Securities and Exchange Commission or its staff upon request.

Certification of Periodic Financial Report Pursuant to 18 U.S.C. Section 1350

For purposes of 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned, Andrew P. Swiger, the principal financial officer of Exxon Mobil Corporation (the "Company"), hereby certifies that, to his knowledge:

- (i) the Annual Report on Form 10-K of the Company for the year ended December 31, 2019, as filed with the Securities and Exchange Commission on the date hereof (the "Report") fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (ii) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 26, 2020

/s/ ANDREW P. SWIGER

Andrew P. Swiger Senior Vice President (Principal Financial Officer)

A signed original of this written statement required by Section 906 has been provided to Exxon Mobil Corporation and will be retained by Exxon Mobil Corporation and furnished to the Securities and Exchange Commission or its staff upon request.

Certification of Periodic Financial Report Pursuant to 18 U.S.C. Section 1350

For purposes of 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, the undersigned, David S. Rosenthal, the principal accounting officer of Exxon Mobil Corporation (the "Company"), hereby certifies that, to his knowledge:

- (i) the Annual Report on Form 10-K of the Company for the year ended December 31, 2019, as filed with the Securities and Exchange Commission on the date hereof (the "Report") fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- (ii) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: February 26, 2020

/s/ DAVID S. ROSENTHAL

David S. Rosenthal Vice President and Controller (Principal Accounting Officer)

A signed original of this written statement required by Section 906 has been provided to Exxon Mobil Corporation and will be retained by Exxon Mobil Corporation and furnished to the Securities and Exchange Commission or its staff upon request.