

## Managing the risks of climate change

### Operated basis

Net GHG (excludes exported power and heat)<sup>91</sup>

Scope 1 GHG emissions<sup>92</sup>

|                 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|-----------------|------|------|------|------|------|------|
| CO <sub>2</sub> | 114  | 110  | 112  | 107  | 100  | 100  |
| CH <sub>4</sub> | 109  | 104  | 106  | 100  | 95   | 96   |
| Other gases     | 99   | 95   | 97   | 94   | 90   | 91   |

Scope 2 GHG emissions (location-based)<sup>93</sup>

Scope 2 GHG emissions (market-based)<sup>94</sup>

Energy attribute certificates (RECs, GOOs)

Methane (CH<sub>4</sub>)

Methane (CH<sub>4</sub>) intensity<sup>\*</sup>

GHG emission intensity (Scope 1 + Scope 2)<sup>\*</sup>

Upstream<sup>\*</sup>

Downstream

Chemical

Upstream

By-division GHG emissions (Scope 1 + Scope 2)

Upstream

Downstream

Chemical

ENERGY - OPERATED BASIS

Energy use

Upstream energy intensity

Downstream energy intensity

Chemical energy intensity

FLARING - OPERATED BASIS

Hydrocarbon flaring (worldwide activities)

Africa/Europe/Middle East

Americas

Asia Pacific

Hydrocarbon flaring (worldwide activities) intensity<sup>\*</sup>

Scope 1 - Greenhouse gas emissions from flaring

CO<sub>2</sub> - captured for storage

|   | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|---|------|------|------|------|------|------|
| (million metric tons CO <sub>2</sub> e)   | 114  | 110  | 112  | 107  | 100  | 100  |
| (million metric tons CO <sub>2</sub> e)   | 109  | 104  | 106  | 100  | 95   | 96   |
| (million metric tons CO <sub>2</sub> e)   | 99   | 95   | 97   | 94   | 90   | 91   |
| (million metric tons CO <sub>2</sub> e)   | 9    | 9    | 9    | 7    | 5    | 5    |
| (million metric tons CO <sub>2</sub> e)   | <1   | <1   | <1   | <1   | <1   | <1   |
| (million metric tons CO <sub>2</sub> e)   | 3    | 3    | 3    | 2    | 2    | 2    |
| (million metric tons CO <sub>2</sub> e)   | 8    | 9    | 9    | 9    | 7    | 7    |
| (million metric tons CO <sub>2</sub> e)   | 0    | 0    | 0    | <1   | <1   | 1    |
| (million metric tons CH <sub>4</sub> )  | 0.30 | 0.29 | 0.31 | 0.22 | 0.16 | 0.16 |
| (metric tons CH <sub>4</sub> per 100 metric tons of throughput or production)   | 0.07 | 0.07 | 0.07 | 0.05 | 0.04 | 0.04 |
| (metric tons CO <sub>2</sub> e per 100 metric tons of throughput or production) | 26.5 | 26.1 | 26.5 | 25.6 | 25.0 | 24.0 |
| (metric tons CO <sub>2</sub> e per 100 metric tons production)                  | 29.3 | 29.3 | 30.1 | 26.7 | 24.8 | 22.9 |
| (metric tons CO <sub>2</sub> e per 100 metric tons of throughput)               | 20.0 | 19.3 | 19.4 | 19.8 | 20.2 | 20.1 |
| (metric tons CO <sub>2</sub> e per 100 metric tons production)                  | 52.6 | 52.8 | 52.0 | 53.1 | 51.2 | 49.0 |
| (million metric tons CO <sub>2</sub> e)   | 117  | 113  | 115  | 109  | 102  | 102  |
| (million metric tons CO <sub>2</sub> e)   | 53   | 50   | 51   | 47   | 44   | 41   |
| (million metric tons CO <sub>2</sub> e)   | 46   | 43   | 44   | 42   | 40   | 41   |
| (million metric tons CO <sub>2</sub> e)   | 19   | 19   | 20   | 19   | 19   | 19   |

(billion gigajoules)

(gigajoules per metric tons production)

(gigajoules per metric tons throughput)

(gigajoules per metric tons product)

(million standard cubic feet per day)

(million standard cubic feet per day)

(million standard cubic feet per day)

(million standard cubic feet per day)

(m<sup>3</sup> per metric tons of throughput/production)

(million metric tons CO<sub>2</sub>e)

(million metric tons of CO<sub>2</sub>)

|  |     |     |     |     |     |     |
|--|-----|-----|-----|-----|-----|-----|
|  | 530 | 410 | 410 | 430 | 320 | 280 |
|  | 400 | 290 | 250 | 230 | 170 | 170 |
|  | 70  | 70  | 100 | 160 | 120 | 80  |
|  | 60  | 50  | 50  | 40  | 30  | 30  |
|  | 12  | 10  | 10  | 10  | 8   | 7   |
|  | 15  | 12  | 12  | 12  | 9   | 8   |
|  | 6   | 7   | 7   | 6   | 6   | 6   |

(million metric tons CO<sub>2</sub>e)

(million metric tons CO<sub>2</sub>e)

(million metric tons CO<sub>2</sub>)

(million metric tons CO<sub>2</sub>e)

(million metric tons CO<sub>2</sub>e)

(million metric tons CO<sub>2</sub>e)

(million metric tons CO<sub>2</sub>e)

(million metric tons CH<sub>4</sub>)

(metric tons CH<sub>4</sub> per 100 metric tons of throughput or production)

(metric tons CO<sub>2</sub>e per 100 metric tons of throughput or production)

(metric tons CO<sub>2</sub>e per 100 metric tons production)

(metric tons CO<sub>2</sub>e per 100 metric tons of throughput)

(metric tons CO<sub>2</sub>e per 100 metric tons production)

(million metric tons CO<sub>2</sub>e)

(million metric tons CO<sub>2</sub>e)

(million metric tons CO<sub>2</sub>e)

(million metric tons CO<sub>2</sub>e)

(million metric tons CO<sub>2</sub>e)

|  |      |      |      |      |      |      |
|--|------|------|------|------|------|------|
|  | 125  | 123  | 125  | 120  | 112  | 113  |
|  | 120  | 118  | 120  | 114  | 108  | 110  |
|  | 111  | 109  | 111  | 107  | 102  | 104  |
|  | 9    | 9    | 9    | 7    | 6    | 5    |
|  | <1   | <1   | <1   | <1   | <1   | <1   |
|  | 3    | 3    | 3    | 3    | 3    | 3    |
|  | 8    | 9    | 8    | 8    | 8    | 7    |
|  | 8    | 9    | 8    | 8    | 7    | 7    |
|  | 0    | 0    | 0    | <1   | <1   | 1    |
|  | 0.29 | 0.29 | 0.30 | 0.24 | 0.19 | 0.18 |
|  | 0.06 | 0.06 | 0.06 | 0.05 | 0.04 | 0.04 |
|  | 26.0 | 25.7 | 26.2 | 25.8 | 25.7 | 25.2 |
|  | 26.6 | 26.6 | 27.4 | 25.7 | 24.8 | 24.0 |
|  | 20.2 | 19.4 | 19.6 | 19.8 | 20.3 | 20.6 |
|  | 54.7 | 54.9 | 54.6 | 55.8 | 54.7 | 51.9 |
|  | 128  | 126  | 128  | 123  | 115  | 117  |
|  | 59   | 59   | 59   | 56   | 52   | 51   |
|  | 47   | 44   | 44   | 43   | 40   | 42   |
|  | 22   | 23   | 24   | 24   | 23   | 23   |
|  | 6    | 6    | 6    | 7    | 7    | 7    |

\*ExxonMobil announced greenhouse gas emission-reduction plans<sup>97</sup> compared to 2016 levels