

# GREENHOUSE GAS EMISSIONS PERFORMANCE DATA

ExxonMobil assesses its performance to support continuous improvement throughout the organization. The reporting guidelines and indicators of Ipeica, the American Petroleum Institute (API) and the International Association of Oil and Gas Producers (IOGP) *Sustainability Reporting Guidance for the Oil and Gas Industry* (2020) informed the selection of the data included in this performance table. Lloyd's Register Quality Assurance has provided their independent limited [level of assurance](#) that the 2020 ExxonMobil greenhouse gas emissions inventory meets ISO 14064 expectations.

## MANAGING THE RISKS OF CLIMATE CHANGE<sup>(69)</sup>

EQUITY BASIS	2016	2017	2018	2019	2020	2021
<sup>(70)</sup> Greenhouse gas emissions, absolute (net equity, CO <sub>2</sub> -equivalent emissions), millions of metric tons	124	121	123	118	111	112
<sup>(71)</sup> Direct (excluding emissions from exported power and heat)	116	112	115	110	104	105
<sup>(72)</sup> Net emissions associated with imported power	8	9	8	8	7	7
CO <sub>2</sub> (excluding emissions from exported power and heat)	116	114	115	112	106	108
Methane (CO <sub>2</sub> -equivalent)	7	7	8	6	5	4
Other gases (CO <sub>2</sub> -equivalent)	1	<1	<1	<1	<1	<1
Emissions from exported power and heat	3	3	3	3	3	3
<sup>(70)</sup> GHG emissions, normalized (net equity, CO <sub>2</sub> -equivalent emissions), metric tons per 100 metric tons of throughput or production	25.1	24.8	25.3	24.9	24.8	24.2
Upstream	25.8	25.8	26.5	24.7	24.0	23.2
Downstream	19.3	18.5	18.7	19.0	19.7	19.5
Chemical	53.6	54.2	53.9	54.7	53.1	49.7
By-division Greenhouse gas emissions (net equity, CO <sub>2</sub> -equivalent emissions), millions of metric tons						
Upstream	58	57	58	54	50	50
Downstream	45	42	42	41	39	40
Chemical	21	22	23	23	22	22
CO <sub>2</sub> - captured for storage (net equity, CO <sub>2</sub> -equivalent), millions of metric tons	6	6	7	7	7	7
<b>OPERATED BASIS</b>						
<sup>(70)</sup> Greenhouse gas emissions, absolute (gross operated, CO <sub>2</sub> -equivalent emissions), millions of metric tons	113	109	110	106	99	99
<sup>(71)</sup> Direct (excluding emissions from exported power and heat)	105	100	101	97	92	92
<sup>(72)</sup> Net emissions associated with imported power	8	9	9	9	7	7
CO <sub>2</sub> (excluding emissions from exported power and heat)	105	102	102	100	95	95
Methane (CO <sub>2</sub> -equivalent)	8	7	8	6	4	4
Other gases (CO <sub>2</sub> -equivalent)	<1	<1	<1	<1	<1	<1
Emissions from exported power and heat	3	3	3	2	2	2
Methane (millions of metric tons CH <sub>4</sub> )	0.30	0.29	0.31	0.22	0.16	0.15
Methane normalized (metric tons CH <sub>4</sub> per 100 metric tons of throughput/production)	0.07	0.07	0.07	0.05	0.04	0.04
<sup>(70)</sup> GHG emissions, normalized (gross operated, CO <sub>2</sub> -equivalent emissions), metric tons per 100 metric tons of throughput or production	25.6	25.2	25.6	24.8	24.3	23.2
Upstream	28.1	28.1	28.8	25.7	24.0	22.1
Downstream	19.3	18.5	18.6	19.1	19.7	19.3
Chemical	53.1	53.8	53.0	53.6	51.2	48.3
By-division Greenhouse gas emissions (gross operated, CO <sub>2</sub> -equivalent emissions), millions of metric tons						
Upstream	51	48	48	46	42	40
Downstream	44	42	42	41	39	40
Chemical	18	19	20	19	18	19
<b>ENERGY - OPERATED BASIS</b>						
Energy use (billion gigajoules)	1.5	1.4	1.5	1.5	1.5	1.5
Upstream (gigajoules per metric tons production)	2.4	2.5	2.5	2.5	2.5	2.4
Downstream (gigajoules per metric tons throughput)	2.9	2.9	3.0	3.1	3.3	3.4
Chemical (gigajoules per metric tons product)	10.6	10.5	10.0	10.5	11.7	10.0
<b>FLARING - OPERATED BASIS</b>						
Hydrocarbon flaring (worldwide activities), million standard cubic feet per day	530	410	410	430	320	280
Africa/Europe/Middle East	400	290	260	230	170	170
Americas	70	70	100	160	120	80
Asia Pacific	60	50	50	40	30	30
Hydrocarbon flaring (worldwide activities), m <sup>3</sup> per metric tons of throughput/production	12	10	10	11	8	7
Scope 1 - Greenhouse gas emissions from flaring	15	12	12	12	9	8

\*ExxonMobil announced greenhouse gas emission reduction plans<sup>(2)</sup> compared to 2016 levels