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## Performance data

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ENVIRONMENT <sup>(i)</sup>	2015	2016	2017	2018	2019
<b>Air emissions</b>					
Sulphur oxides (expressed as SO <sub>2</sub> – thousand metric tonnes/year)	22.9	21.4	20.9	24.0	<b>23.3</b>
Nitrogen oxides (thousand metric tonnes/year)	15.5	15.9	16.5	17.7	<b>18.3</b>
Volatile organic compounds (thousand metric tonnes/year)	14.0	10.5	10.4	10.7	<b>9.6</b>
Particulate matter (PM10) (thousand metric tonnes/year)	4.6	5.9	8.9	8.3	<b>9.6</b>
<b>GHG emissions and energy consumption<sup>(ii)</sup></b>					
Direct GHG emissions – including Cogen					
Downstream & Chemical (million metric tonnes of CO <sub>2</sub> e)	4.8	4.8	4.7	4.7	<b>4.4</b>
Carbon dioxide emissions (million metric tonnes)	4.8	4.8	4.6	4.6	<b>4.4</b>
Methane emissions (million metric tonnes)	0.0011	0.0010	0.0011	0.0011	<b>0.0012</b>
Nitrous oxide emissions (million metric tonnes)	0.0001	0.0001	0.0001	0.0001	<b>0.0001</b>
Upstream (million metric tonnes of CO <sub>2</sub> e)	8.0	8.2	8.4	8.4	<b>8.7</b>
Carbon dioxide emissions (million metric tonnes) <sup>(iii)</sup>	7.8	8.0	8.2	8.3	<b>8.6</b>
Methane emissions (million metric tonnes)	0.0019	0.0023	0.0018	0.0017	<b>0.0020</b>
Nitrous oxide emissions (million metric tonnes)	0.0003	0.0003	0.0003	0.0003	<b>0.0001</b>
Operated oil sands (million metric tonnes of CO <sub>2</sub> e)	7.9	8.1	8.3	8.4	<b>8.6</b>
Carbon dioxide emissions (million metric tonnes) <sup>(iii)</sup>	7.7	8.0	8.2	8.3	<b>8.5</b>
Methane emissions (million metric tonnes)	0.0016	0.0020	0.0017	0.0016	<b>0.0017</b>
Nitrous oxide emissions (million metric tonnes)	0.0003	0.0003	0.0003	0.0003	<b>0.0001</b>
Imported electricity and associated indirect GHG emissions					
Downstream & Chemical – imported electricity (million MWhr)	1.10	1.07	1.04	1.09	<b>1.09</b>
Downstream & Chemical – associated indirect GHG emissions (million metric tonnes of CO <sub>2</sub> e)	0.41	0.39	0.39	0.40	<b>0.40</b>
Upstream – imported electricity (million MWhr)	0.70	0.83	0.92	0.95	<b>1.07</b>
Upstream – associated indirect GHG emissions (million metric tonnes of CO <sub>2</sub> e)	0.26	0.31	0.34	0.35	<b>0.39</b>
Operated oil sands – imported electricity (million MWhr)	0.70	0.83	0.92	0.94	<b>1.07</b>
Operated oil sands – associated indirect GHG emissions (million metric tonnes of CO <sub>2</sub> e)	0.26	0.31	0.34	0.35	<b>0.39</b>

ENVIRONMENT (continued)	2015	2016	2017	2018	2019	INDEX
<b>Exported electricity and associated GHG emissions</b>						
Downstream & Chemical – exported electricity (million MWhr)	–	–	–	–	–	INTRODUCTION
Downstream & Chemical – associated GHG emissions (million metric tonnes of CO <sub>2</sub> e)	–	–	–	–	–	
Upstream – exported electricity (million MWhr)	1.25	1.48	1.45	1.55	<b>1.50</b>	CORPORATE GOVERNANCE
Upstream – associated GHG emissions (million metric tonnes of CO <sub>2</sub> e)	0.46	0.55	0.54	0.57	<b>0.56</b>	
Operated oil sands – exported electricity (million MWhr)	1.24	1.47	1.45	1.55	<b>1.49</b>	MANAGING THE RISKS OF CLIMATE CHANGE
Operated oil sands – associated GHG emissions (million metric tonnes of CO <sub>2</sub> e)	0.46	0.55	0.53	0.57	<b>0.55</b>	
<b>GHG emissions<sup>(iv)</sup></b>						
Downstream & Chemical (million metric tonnes of CO <sub>2</sub> e)	5.2	5.2	5.1	5.1	<b>4.9</b>	ENVIRONMENTAL PERFORMANCE
Upstream (million metric tonnes of CO <sub>2</sub> e)	7.8	7.9	8.2	8.2	<b>8.5</b>	
Operated oil sands (million metric tonnes of CO <sub>2</sub> e)	7.7	7.8	8.2	8.2	<b>8.4</b>	
<b>Production/throughput</b>						
Downstream & Chemical – refining throughput (million m <sup>3</sup> ) <sup>(v)</sup>	22	21	22	23	<b>20</b>	SAFETY, HEALTH & THE WORKFORCE
Upstream – production (million m <sup>3</sup> ) <sup>(vi)</sup>	20	21	21	22	<b>21</b>	
Operated oil sands – production (million m <sup>3</sup> ) <sup>(vii)</sup>	19	20	21	21	<b>21</b>	
<b>GHG emissions intensity<sup>(viii)</sup></b>						COMMUNITY & INDIGENOUS ENGAGEMENT
Downstream & Chemical (metric tonnes of CO <sub>2</sub> e/m <sup>3</sup> refining throughput) <sup>(v)</sup>	0.23	0.25	0.23	0.22	<b>0.24</b>	
Upstream (metric tonnes of CO <sub>2</sub> e/m <sup>3</sup> upstream production) <sup>(vi)</sup>	0.40	0.38	0.39	0.38	<b>0.40</b>	
Operated oil sands (metric tonnes of CO <sub>2</sub> e/m <sup>3</sup> upstream production) <sup>(vii)</sup>	0.40	0.39	0.39	0.38	<b>0.40</b>	ECONOMIC DEVELOPMENT
Total energy use (million gigajoules)	219	220	223	227	<b>227</b>	
Fuels refining Solomon Ell® – normalized versus 1990 <sup>(ix)</sup>	0.811	0.808	0.804	0.789	<b>0.809</b>	
<b>Flaring and venting</b>						PERFORMANCE DATA
Hydrocarbon flaring – company total (million cubic feet per day)	2.2	1.9	2.1	2.9	<b>3.4</b>	
Gas (hydrocarbon) flaring from oil production (million cubic feet per day)	3.9	3.9	3.5	3.1	<b>2.8</b>	
<b>Water consumption</b>						
<b>Freshwater consumption</b>						
Downstream & Chemical (million m <sup>3</sup> of fresh water consumed)	10.5	10.4	9.9	10.1	<b>9.8</b>	
Upstream (million m <sup>3</sup> of fresh water consumed)	41.0	30.2	32.6	35.2	<b>39.3</b>	
<b>Fresh water consumption intensity</b>						
Downstream & Chemical (m <sup>3</sup> of fresh water consumed/m <sup>3</sup> refining throughput) <sup>(v)</sup>	0.47	0.49	0.45	0.44	<b>0.48</b>	
Upstream (m <sup>3</sup> of fresh water consumed/m <sup>3</sup> upstream production) <sup>(vi)</sup>	2.10	1.46	1.56	1.63	<b>1.83</b>	

INDEX	<b>ENVIRONMENT</b> <i>(continued)</i>	2015	2016	2017	2018	2019
	<b>Compliance</b>					
INTRODUCTION	Oil and chemical spills <i>(total number)</i> > 1 barrel	10	4	4	13	10
	Volume of product from oil and chemical spills <i>(barrels)</i>	500	62	114	231	402
CORPORATE GOVERNANCE	Number of environmental exceedance incidents	12	10	9	9	11
	Environmental fines and penalties <i>(thousands of dollars)</i>	\$13	\$37	\$813	\$812	\$406
	<b>Waste management</b>					
MANAGING THE RISKS OF CLIMATE CHANGE	Hazardous waste disposed from operations <i>(thousand tonnes)</i>	9.5	10.8	20.9	34.0	28.2
	Hazardous waste – external beneficial reuse <i>(thousand tonnes)</i>	7.6	5.1	6.9	3.3	8.9
	<b>INVESTMENTS</b>	2015	2016	2017	2018	2019
ENVIRONMENTAL PERFORMANCE	Gross research expenditures, before credits <i>(millions of dollars)</i>	\$195	\$195	\$154	\$150	\$170
	Environmental expenditures <i>(millions of dollars)</i>	\$1,200	\$700	\$600	\$600	\$800
	<b>ECONOMIC DEVELOPMENT</b>	2015	2016	2017	2018	2019
SAFETY, HEALTH & THE WORKFORCE	Capital and exploration expenditures <i>(billions of dollars)</i>	\$3.6	\$1.2	\$0.7	\$1.4	\$1.8
	Payments for goods and services <i>(billions of dollars, approximate)</i> <sup>(x)</sup>	\$9.50	\$8.00	\$5.50	\$4.72	\$5.26
COMMUNITY & INDIGENOUS ENGAGEMENT	Taxes and royalties to government <i>(billions of dollars)</i>	\$5.40	\$5.20	\$5.10	\$5.60*	\$6.14
	<b>Employment</b>					
	Wages and benefits <i>(billions of dollars)</i>	\$1.50	\$1.40	\$1.40	\$1.45	\$1.48
ECONOMIC DEVELOPMENT	Education assistance program <i>(thousands of dollars)</i>	\$627	\$685	\$588	\$588	\$760
	Scholarships for employee dependents <i>(millions of dollars)</i>	\$2.10	\$1.90	\$2.00	\$1.88	\$1.99
	Number of regular employees at year end <sup>(xi)</sup>	5,917	5,706	5,523	5,687	6,049
PERFORMANCE DATA	Percentage of women at year end	25.8	25.0	25.1	24.0	23.8
	Percentage of visible minorities at year end <sup>(xii)</sup>	10.9	11.2	11.2	12.8	12.8
	Percentage of persons with disabilities at year end <sup>(xii)</sup>	1.2	1.0	0.9	2.4	3.8
	<b>Indigenous</b>					
	Spending with Indigenous businesses (direct and subcontracted) <i>(millions of dollars)</i>	\$329	\$225	\$200	\$250	\$370
	Percentage of Indigenous peoples at year end <sup>(xii)</sup>	3.7	3.9	3.9	3.6	3.6

	2015	2016	2017	2018	2019	INDEX
<b>COMMUNITY ENGAGEMENT</b> <sup>(xiii)</sup>						
Community investment (millions of dollars) <sup>(xiv)</sup>	\$27.0	\$21.2	\$16.0	\$17.2	\$15.3	
Hours volunteered <sup>(xv)</sup>	N/A	7,927	6,765	3,598	14,381	INTRODUCTION
Contributions to United Way – Centraide campaigns (millions of dollars) <sup>(xvi)</sup>	\$4.8	\$4.2	\$3.6	\$3.2	\$3.3	
<b>SAFETY</b>	2015	2016	2017	2018	2019	
Fatalities – employees and contractors	0	0	0	0	0	CORPORATE GOVERNANCE
Lost-time incident frequency – employees per 200,000 hours worked	0.03	0	0.01	0.03	0.01	
Lost-time incident frequency – contractors per 200,000 hours worked	0.01	0.01	0.04	0.03	0.05	MANAGING THE RISKS OF CLIMATE CHANGE
Total recordable incident frequency – employees per 200,000 hours worked	0.22	0.08	0.15	0.13	0.09	
Total recordable incident frequency – contractors per 200,000 hours worked	0.30	0.39	0.36	0.36	0.34	
Total recordable incident frequency – workforce per 200,000 hours worked	0.27	0.26	0.26	0.27	0.25	ENVIRONMENTAL PERFORMANCE
Tier 1 process safety event rate – per million hours worked	0.11	0.21	0.00	0.06	0.12	
Tier 2 process safety event rate – per million hours worked	0.25	0.31	0.29	0.44	0.25	
<b>CORPORATE GOVERNANCE</b>	2015	2016	2017	2018	2019	SAFETY, HEALTH & THE WORKFORCE
Corporate political contributions (thousands of dollars) <sup>(xvii)</sup>	\$65	\$61	\$24	\$0	\$0	
Common shares outstanding (millions of shares) <sup>(xviii)</sup>	848	848	831	783	744	
Dividends paid (millions of dollars) <sup>(xviii)</sup>	\$449	\$492	\$524	\$572	\$631	COMMUNITY & INDIGENOUS ENGAGEMENT

Note: Adjustments may have been made to some data points to reflect internal updates. All references to financial information is in Canadian dollars.

- (i) Some uncertainty exists in performance data, depending on measurement methods. Data in the report and performance data table represent the best available information at the time of publication. Data represents Imperial owned and operated assets (including 100% Kearl; excluding ExxonMobil Canada, XTO Canada and Syncrude). Retail stations (sold in 2016) and other assets that were divested between 2015-2019 are not included.
- (ii) Greenhouse Gas (GHG) emissions were quantified based on applicable provincial and federal regulations. Imported/exported electricity GHG emission factor (0.37 tonnes CO<sub>2</sub>e/MWhr) consistent with the benchmark established for electricity from 2019 CCIR (Carbon Competitiveness Incentive Regulation) and OBPS (Output Based Pricing System).
- (iii) Excluding CO<sub>2</sub> emissions from biomass.
- (iv) GHG emissions calculated as sum of direct emissions and emissions associated with imported electricity less (minus) emissions associated with exported electricity.
- (v) Throughput basis: Refinery throughput is the volume of crude oil and feedstocks that is processed in the refinery atmospheric distillation units.
- (vi) Production basis: Represents bitumen/crude production at Kearl, Cold Lake and Norman Wells; Kearl and Cold Lake production basis same as reported under Alberta greenhouse gas emissions regulation.
- (vii) Production basis: Operated oil sands (Kearl and Cold Lake) production basis same as reported under Alberta greenhouse gas emissions regulation.
- (viii) GHG emissions intensity is the ratio of GHG emissions to production or throughput.

- (ix) Solomon EII® is a measure of energy efficiency for petroleum refineries. A lower energy intensity index number indicates a more energy-efficient facility.
- (x) Includes spending for Imperial and ExxonMobil companies in Canada. 2018 and 2019 values excludes spending for ExxonMobil Canada East.
- (xi) All Imperial employees as of December 31, 2019.
- (xii) Statistics are collected from self-identification questionnaires.
- (xiii) Values reported using the London Benchmark Group Model – the global standard for measuring and reporting community investment.
- (xiv) Imperial's 2015 total value to community includes \$6.6 million in government contributions to the Institute for Oil Sands Innovation.
- (xv) ImpACT program initiated in 2019 improving reporting capabilities.
- (xvi) Represents combined donations from the company, employees and retirees.
- (xvii) Imperial no longer makes political contributions as of January 1, 2018.
- (xviii) For complete disclosure and additional information, see the 2019 Annual financial statements and management discussion and analysis.
- \* In 2018, the Territories had a net refund of approximately \$0.03 billion.

PERFORMANCE DATA

ECONOMIC DEVELOPMENT