



# Environmental Activities: Supplementary Data

## 1 Addressing Climate Change

### Reducing Greenhouse Gas Emissions

#### Greenhouse Gas Emissions (All Seven Gases) (Sumitomo Chemical (All worksites))

(Thousand tons of CO<sub>2</sub>e)

		FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
CO <sub>2</sub>	Energy sources	3,357	3,347	2,559	2,405	2,454	2,543	2,722
	From other than energy use	63	65	55	50	93	155	142
Methane (CH <sub>4</sub> )		—	—	—	—	—	—	—
Nitrous oxide (N <sub>2</sub> O)		63	76	65	45	35	23	15
Hydrofluorocarbon (HFC)		—	—	—	—	—	—	4
Perfluorocarbon (PFC)		—	—	—	—	—	—	—
Sulfur hexafluoride (SF <sub>6</sub> )		—	—	—	—	—	—	—
Nitrogen trifluoride (NF <sub>3</sub> )		—	—	—	—	—	—	—

Notes: • CH<sub>4</sub>, HFC, PFC, SF<sub>6</sub>, and NF<sub>3</sub> are outside the scope of reporting.

• Calculated based on the Act on the Rational Use of Energy and the Act on Promotion of Global Warming Countermeasures.



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### Energy Saving

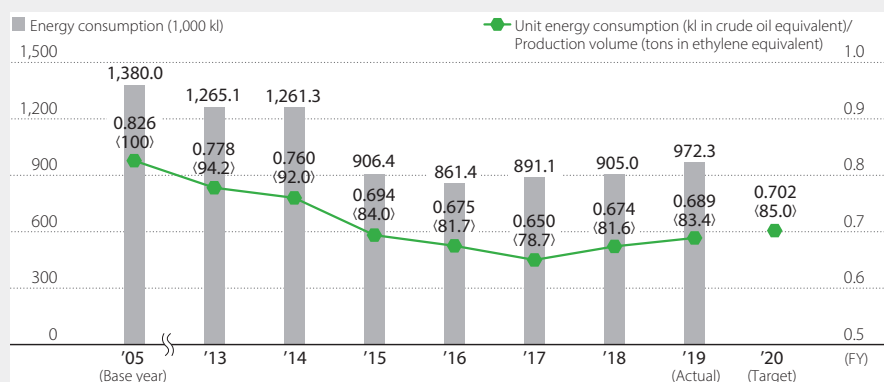
#### FY2019 Breakdown of Unit Energy Consumption (Sumitomo Chemical)

	Energy consumption (1,000 kl in crude oil equivalent) (a)	Production (1,000 tons in ethylene equivalent) (b)	Unit energy consumption (a/b)
Ehime Works	491.2	760.2	0.647
Chiba Works	352.1	438.0	0.804
Osaka Works	23.4	17.2	1.359
Oita Works*	61.3	64.9	0.944
Misawa Works	9.8	7.9	1.236
Ohe Works	34.6	122.6	0.282
Total	972.3	1,410.9	0.689
			<83.4% compared with FY2005>

Note: Calculated based on the Act on the Rational Use of Energy and the Act on Promotion of Global Warming Countermeasures.

\* Data for the Oita Works includes data for the Gifu and Okayama plants.

#### Energy Consumption and Unit Energy Consumption (Sumitomo Chemical)



Note: Calculated based on the Act on the Rational Use of Energy and the Act on Promotion of Global Warming Countermeasures.

#### Target

Improve unit energy consumption 15% by fiscal 2020 compared to fiscal 2005 levels (Improve 1% per year on average)  
Improve unit CO<sub>2</sub> emissions from energy use 15% by fiscal 2020 compared to fiscal 2005 levels (Improve 1% per year on average)

#### Results

Energy consumption totaled 972.3 thousand kl in crude oil equivalent in fiscal 2019.  
In fiscal 2019, unit energy consumption worsened 2.3% compared with fiscal 2018 and improved 16.6% compared with fiscal 2005.  
Unit CO<sub>2</sub> emissions from energy use worsened 2.0% compared with fiscal 2018 and improved 14.1% compared with fiscal 2005.

#### FY2019 Energy Consumption and CO<sub>2</sub> Emissions (Sumitomo Chemical and Group Companies in Japan (All worksites))

	Energy consumption (1,000 kl in crude oil equivalent)	CO <sub>2</sub> emissions from energy use (1,000 tons)
Sumitomo Chemical	986	2,722
Works	972	2,696
Non-manufacturing sites including the Head Offices and Research Laboratories	14	26
Sumitomo Chemical and Group companies in Japan	1,716	5,051
Works	1,687	4,994
Non-manufacturing sites including the Head Offices and Research Laboratories	30	56

Notes: • Calculated based on the Act on the Rational Use of Energy and the Act on Promotion of Global Warming Countermeasures.

• The boundary of calculation covers the same participating companies listed on page 3.