

## -Value Chain Emissions-

**We strive to mitigate a wide range of the environmental burden, by grasping total GHG emissions from upstream through downstream and reducing them.**

### Value Chain Emissions (Scope 1 – 3)

Unit: tons-CO<sub>2</sub>

Items			FY2018	FY2019	FY2020	FY2021
Scope 3 (Upstream)	CAT 01	Purchased goods and services	139,263	104,240	100,628	121,440
	CAT 02	Capital goods	13	380	0	0
	CAT 03	Fuel and energy-related activities not included in Scopes 1 and 2	601	1,254	1,218	1,127
	CAT 04	Transportation and distribution (Upstream)	2,769	2,133	1,651	2,101
	CAT 05	Waste generated in operations	202	150	127	123
	CAT 06	Business travel	1,512	2,807	475	424
	CAT 07	Employee commuting	1,094	942	82	104
	CAT 08	Leased assets (Upstream)	726	656	586	516
Scope 1 (Reporting company)		Direct emissions	581	534	1,086	1,095
Scope 2 (Reporting company) *2		Indirect emissions from energy sources				
		Location-based	11,055	9,625	8,277	7,488
		Market-based	10,637	9,204	7,843	7,437
Scope 3 (Downstream)	CAT 09	Transportation and distribution (Downstream)	N/A*1	N/A	N/A	N/A
	CAT 10	Processing of sold products	--*1	--	--	--
	CAT 11	Use of sold products	110,902	68,042	74,071	95,613
	CAT 12	End-of-life treatment of sold products	N/A	N/A	N/A	1,425
	CAT 13	Leased assets (Downstream)	N/A	N/A	N/A	N/A
	CAT 14	Franchises	N/A	N/A	N/A	N/A
	CAT 15	Investment	N/A	N/A	N/A	N/A

\*1: "N/A" means items which we regarded as not applicable to our Group. "--" means item which was decided not to calculate because it is practically difficult to calculate and its assumed emission volume is relatively small, although the CAT is applicable to our Group.

\*2: GWP (global-warming potential) of "Location-based" is all "0.57 tons-CO<sub>2</sub>/MWh". GWPs of "Market-based" are mainly based on data provided by each local electric power company in the territories where our Group Sites are located. The GWPs exclude electricity as RE.