

Global Warming Prevention

Trends in greenhouse gas emissions at business sites

Indicator		Unit	FY2022	FY2023	FY2024	FY2025
Total GHG emissions		kton-CO ₂	540	516	498	269
	CO ₂ emissions (*1)	kton-CO ₂	538	513	495	268
	Emissions other CO ₂ (*2)	kton-CO ₂	2	3	3	1

- *1 CO₂ emissions : The CO₂ conversion factor for purchased electricity in the Environmental Action Plan results report is calculated as 0.436 ton-CO₂/MWh in FY 2022, 0.437 ton-CO₂/MWh in FY 2023 and 0.421 ton-CO₂/MWh in FY 2024.
- *2 Emissions other CO₂ : These are converted to equivalent amounts of CO₂ using the global warming potential (GWP) of each gas.

Trends in Energy Usage

Indicator	Unit	FY2022	FY2023	FY2024	FY2025
Energy usage for manufacturing (total)	PJ	5.09	4.88	4.90	2.47
Energy usage for distribution	PJ	0.63	0.47	0.23	0.21
Usage of renewable energy	GWh	320	440	472	355
Ratio of renewable energy to total electricity consumption	%	30.0	42.7	47.5	67.5
Energy used in data centers	GWh	389	353	319	306
PUE in data centers	-	1.57	1.60	1.58	1.59

Trend in CO₂ emission from Transportation

Indicator	Unit	FY2022	FY2023	FY2024	FY2025
CO ₂ emission from Transportation	kton-CO ₂	44	32	16	14

GHG Emissions Report Based on GHG Protocol (*3)

Indicator		FY2020 (*4)		FY2022		FY2023		FY2024		FY2025	
Upstream (Scope3)		kton-CO ₂	% (*5)	kton-CO ₂	% (*5)	kton-CO ₂	% (*5)	kton-CO ₂	% (*5)	kton-CO ₂	% (*5)
	Purchased goods and services	1,192	21.4	1,361	25.0	1,086	27.3	2,748 (*9)	51.7	2,472	52.5
	Capital goods	15	0.3	11	0.2	7	0.2	24	0.5	44	0.9
	Fuel and energy-related activities not included in Scopes 1 and 2	99	1.8	85	1.6	82	2.1	81	1.5	44	0.9
	Transportation and distribution (Upstream)	53	0.9	44	0.8	32	0.8	16	0.3	14	0.3
	Waste generated in operations	4	0.1	4	0.1	3	0.1	3	0.0	2	0.0
	Business travel	27	0.5	48	0.9	71	1.8	82	1.5	84	1.8
	Employee commuting	5	0.1	5	0.1	5	0.1	6	0.1	7	0.1
	Leased assets (Upstream)	88	1.6	72	1.3	43	1.1	44	0.8	36	0.8
Reporting company (Scope1, 2)											
	Direct emissions (Scope 1)	75	1.3	65	1.2	64	1.6	69	1.3	19	0.4
	Indirect emissions from energy sources (Scope 2)	583 (*6) 540 (*7)	- 9.7	476 (*6) 341 (*7)	- 6.3	451 (*6) 268 (*7)	- 6.7	429 (*6) 237 (*7)	- 4.5	248 (*6) 106 (*7)	- 2.3
Downstream (Scope3)											
	Transportation and distribution (Downstream)	N/A (*8)	-	N/A	-	N/A	-	N/A	-	N/A	-
	Processing of sold products	12	0.2	16	0.3	12	0.3	11	0.2	0	0.0
	Use of sold products	3,470	62.2	3,358	61.7	2,283	57.4	1,982	37.3	1,872	39.7
	End-of-life treatment of sold products	1	0.0	6	0.1	4	0.1	3	0.1	5	0.1
	Leased assets (Downstream)	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-
	Franchises	N/A	-	N/A	-	N/A	-	N/A	-	N/A	-
	Investment	N/A	-	27	0.5	17	0.4	14	0.3	6	0.1
Scope3 total		4,966	89.0	5,037	92.5	3,645	91.7	5,014	94.2	4,586	97.3

*3 GHG emissions quantification is subject to uncertainty when measuring activity data, determining emission factors, and considering scientific uncertainty inherent in the Global Warming Potential.

*4 Base year for GHG emission reduction targets

*5 The percentage of total GHG emissions (Scope 1 + Scope 2 [Market-based] + Scope 3) when Scope 2 emissions are calculated using the market-based method.

*6 Location-based

*7 Market-based

*8 N/A : Not Applicable

*9 From FY2024, the scope has been expanded. For details, refer to the [“Environmental Performance Data Calculation Standards”](#)