

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 ₂								
Items			FY2020	FY2021	FY2022	FY2023	FY2024	FY2024 Ratio of Scope 3
Scope 3 (Upstream)	CAT 01	Purchased goods and services	100,628	121,440	137,495	145,321	160,118	67.7%
	CAT 02	Capital goods	0	0	122	323	104	0.0%
	CAT 03	Fuel and energy-related activities not included in Scopes 1 and 2	1,218	1,127	1,001	943	631	0.3%
	CAT 04	Transportation and distribution (Upstream)	1,651	2,101	2,835	1,963	911	0.4%
	CAT 05	Waste generated in operations	127	123	138	153	151	0.1%
	CAT 06	Business travel	475	424	878	1,279	1,462	0.6%
	CAT 07	Employee commuting	82	104	89	96	105	0.0%
	CAT 08	Leased assets (Upstream)	586	516	521	560	494	0.2%
Scope 1 (Reporting company)		Direct emissions	1,086	1,095	1,152	1,020	1,072	
Scope 2 (Reporting company) ^{*1}		Indirect emissions from energy sources	Location-based	8,277	7,488	6,324	6,061	3,411
			Market-based	7,843	7,437	6,091	5,867	2,741
Scope 3 (Downstream)	CAT 09	Transportation and distribution (Downstream)	N/A	N/A	N/A	N/A	N/A	N/A
	CAT 10	Processing of sold products	--	--	--	--	--	--
	CAT 11	Use of sold products	74,071	95,613	93,086	98,862	71,318	30.2%
	CAT 12	End-of-life treatment of sold products	N/A	1,423	1,368	1,428	1,140	0.5%
	CAT 13	Leased assets (Downstream)	N/A	N/A	N/A	N/A	N/A	N/A
	CAT 14	Franchises	N/A	N/A	N/A	N/A	N/A	N/A
	CAT 15	Investment	N/A	N/A	N/A	N/A	N/A	N/A
Total emissions in Scope 3 (CAT 01 – 15)			178,839	222,871	237,532	250,928	236,435	100%
Total emissions in Scope 1 – 3 (Scope 2 is location-based)			188,202	231,454	245,008	258,009	240,918	

*1: GWP (global-warming potential) of “Location-based” is all “0.57 tons-CO₂/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.

*2: “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.

© Fujitsu Frontech Limited

[Supplements]

CATs	Scope	Calculation Methods
1	In Japan	Components purchased during the fiscal year x Emissions per unit of purchase*2
2	In Japan	Total amounts of acceptance inspection of construction objects in the fiscal year x Emission intensity*3
3	Main 5 Sites*1	Annual amounts of fuel oil and gas, electricity and heat purchased (consumed) at mainly business sites owned by Fujitsu Frontech Group x Emissions per unit*3
4	- Niigata Plant - FFNA	In Japan: CO ₂ emissions related to transportation of goods in Japan by Fujitsu Frontech Limited*4, 5 Outside Japan: Transportation ton-kilometer x Emissions per unit*6
5	Main 5 Sites	Annual amounts of waste (discharged mainly by business sites owned by Fujitsu Frontech Group) processed or recycled by type and processing method x Emission per unit of annual amounts of waste processed or recycled*3
6	In Japan	(By means of transportation) Σ (Transportation expense payment x Emission per unit)*3, 7
7	In Japan	(By means of transportation) Σ (Transportation expense payment x Emission per unit)*3, 7
8	In Japan	Annual amounts of fuel oil and gas, electricity and heat consumed mainly at leased business sites x Emissions per unit of fuel oil and gas, electricity and heat consumed*8
9	N/A	N/A
10	--	--
11	Global	Electricity consumption during product use x emissions per unit of electricity*9
12	Global	Σ {Tonnage of each products sold during the fiscal year x rate by type of waste and processing method x Emissions unit value for the type of waste and processing method (tCO ₂ e/t)}*3
13	N/A	N/A
14	N/A	N/A
15	N/A	N/A

*1: 3 Sites in Japan (Headquarters / Tokyo Plant, Niigata Plant, Kumagaya SSC) and 2 Sites outside Japan (FDTP, FFNA)

*2: Source - Embodied Energy and Emissions Intensity Data (3EID) published by the National Institute for Environmental Studies Center for Global Environmental Research

*3: Source - Database of emissions unit values published by Ministry of the Environment and Ministry of Economy, Trade and Industry

*4: Source - CO₂ emissions related to domestic transportation by Fujitsu Frontech Limited, based on the Act on the Rational Use of Energy.

*5: Source - The fuel economy method (for some vehicle) or the improved ton-kilometer method (vehicle, trail, air).

*6: Source - GHG Protocol Emissions Factors Database

*7: Source - Basic Guidelines on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain published by Ministry of the Environment and Ministry of Economy, Trade and Industry

*8: Source - Act on Promotion of Global Warming Countermeasures - GHG Emissions Accounting, Reporting and Disclosure System

*9: Source - The Electric Power Council for a Low Carbon Society (in Japan), Latest IEA value (outside Japan)

© Fujitsu Frontech Limited