

Reducing Greenhouse Gases Emitted in the Value Chain

The “★” symbol denotes Mitsubishi Electric Group greenhouse gas emissions for which third-party verification has been carried out by SGS Japan Inc.

Scope	Accounting (kt) (Bottom row: Total emission ratio)			Accounting Summary*1
	FY 2020	FY 2019	FY 2018	
Scope 1: Direct emissions from fuel use and industrial processes at our company*2	★265 (0.6%)	★278 (0.6%)	★310 (0.7%)	
Scope 2: Indirect emissions associated with use of electricity and heat purchased by our company*3				
Market based	★853 (1.8%)	★981 (2.1%)	★980 (2.1%)	Calculated using the power emission coefficient based on the contract
Location based	★982	★1,020	★970	Calculated using the average emission coefficient of power generated in the area
Scope 3: Indirect emissions outside the scope of our company's operational activities*3				
Category 1 Purchased goods and services	★8,006 (17%)	★7,050 (15%)	★6,700 (14%)	Emissions associated with activities up to the manufacturing of materials, etc. relating to raw materials, parts, purchased products, and sales*4
Category 2 Capital goods	672 (1.5%)	770 (1.7%)	660 (1.4%)	Emissions generated by the construction and manufacturing of own capital goods
Category 3 Fuel- and energy-related activities not included in Scope 1 or Scope 2	83 (0.2%)	87 (0.2%)	85 (0.2%)	Emissions associated with procurement of fuel necessary for power generation, heat supply, etc., and power such as electricity supplied by other parties
Category 4 Upstream transportation and distribution	430 (0.9%)	400 (0.9%)	430 (0.9%)	Emissions associated with logistic processes up to the delivery to our company of materials, etc. relating to raw materials, parts, purchased products, and sales*5
Category 5 Waste generated in operations	0.4 (0.0%)	0.3 (0.0%)	0.4 (0.0%)	Emissions associated with transporting and processing waste produced by our company*6
Category 6 Business travel	★31 (0.1%)	★39 (0.1%)	★40 (0.1%)	Emissions associated with employee business travel*7
Category 7 Employee commuting	★30 (0.1%)	★30 (0.1%)	★29 (0.1%)	Emissions associated with employees commuting to and from their respective workplaces*8
Category 8 Upstream leased assets	—	—	—	Emissions associated with operation of leased assets hired by our company (Calculated by Mitsubishi Electric under Scope 1 and Scope 2)
Category 9 Downstream transportation and distribution	6.6 (0.0%)	6.0 (0.0%)	7.0 (0.0%)	Emissions associated with the transportation, storage, cargo handling and retailing of products
Category 10 Processing of sold products	2.0 (0.0%)	1.8 (0.0%)	2.0 (0.0%)	Emissions associated with the processing of interim products by business operators
Category 11 Use of sold products	★35,865 (77%)	★36,450 (79%)	★37,360 (80%)	Emissions associated with the use of products by users (consumers/business operators)
Category 12 End-of-life treatment of sold products	26 (0.1%)	30 (0.1%)	30 (0.1%)	Emissions associated with the transportation and processing of products for disposal by users (consumers/business operators)*4
Category 13 Downstream leased assets	0.2 (0.0%)	0.2 (0.0%)	0.1 (0.0%)	Emissions associated with operation of leased assets
Category 14 Franchises	—	—	—	Emissions at companies operating as franchises (Not applicable to Mitsubishi Electric)
Category 15 Investments	45 (0.1%)	73 (0.2%)	80 (0.2%)	Emissions associated with operation of investments
Scope 3 total	45,198 (98%)	44,937 (97%)	45,423 (97%)	
Total	46,316 (100.0%)	46,196 (100.0%)	46,713 (100.0%)	

*1 Excerpt from Basic Guidelines published by the Japan's Ministry of the Environment and Ministry of Economy, Trade and Industry
 *2 CO₂, SF₆, HFCs, and PFCs emissions associated with the use of city gas, heavy oil, etc., and with product manufacturing
 *3 CO₂ emissions associated with the use of electricity, etc. *4 Excludes some regions
 *5 CO₂ emissions associated with product distribution/circulation (sales distribution) Subject to accounting: 55 companies (production sites)
 *6 CO₂ emissions associated with transportation of waste (waste distribution) Subject to accounting: Mitsubishi Electric
 *7 Results for Japan. Excludes CO₂ emissions associated with actual use of taxis and accommodation
 *8 Assuming that all employees use passenger rail services

Amount of Water Intake/Drainage/Reuse

Unit: 10,000 m³

Item	Group	Japan*9	Overseas					
			China	Southeast Asia	Europe	US	Latin America	
■ FY 2020 results								
Water usage (water intake plus reuse)	1,564	1,366	199	81	108	1.6	5.2	3.4
Intake	1,100	912	188	74	104	1.6	5.2	3.3
Surface water	337	211	127	31	93	1.1	0.0	2.0
Groundwater	536	535	0.9	0.0	0.9	0.0	0.0	0.0
Seawater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water discharged during development/mining processes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water purchased from third parties	226	166	60	43	9.7	0.6	5.2	1.3
Drainage volume	862	733	129	62	58	1.4	5.2	2.4
Surface water	408	408	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater	2.7	1.7	1.0	0.4	0.0	0.1	0.0	0.4
Seawater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water discharged into third-party drainage facilities	451	323	128	62	58	1.3	5.2	1.9
Water reused	465	454	11	6.9	4.2	0.0	0.0	0.0
Water consumption (water intake minus drainage volume)	238	179	59	12	46	0.2	0.0	1.0
Reuse ratio (reused/used) (%)	30	33	5.6	8.5	3.9	0.0	0.0	0.7
Water usage per unit of sales (Water usage/sales) (m³/million yen)	3.5	—	—	—	—	—	—	—
■ FY 2019 results*10								
Water usage (water intake plus reuse)	1,541	1,328	212	85	112	2.1	8.2	4.2
Intake	1,090	888	203	81	107	2.1	8.2	4.2
Surface water	355	221	134	34	96	1.4	0.1	2.8
Groundwater	495	494	1.5	0.0	1.5	0.0	0.0	0.0
Seawater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water discharged during development/mining processes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water purchased from third parties	240	173	67	46	10	0.7	8.1	1.3
Drainage volume	859	719	140	68	59	1.5	8.1	3.5
Surface water	383	383	0.0	0.0	0.0	0.0	0.0	0.0
Groundwater	1.4	0.2	1.2	0.9	0.0	0.0	0.0	0.3
Seawater	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Water discharged into third-party drainage facilities	474	335	139	67	59	1.5	8.1	3.2
Water reused	450	441	9.7	4.7	4.9	0.0	0.0	0.0
Water consumption (water intake minus drainage volume)	232	169	63	13	49	0.6	0.1	0.7
Reuse ratio (reused/used) (%)	29	33	4.5	5.5	4.4	0.0	0.0	0.9
Water usage per unit of sales (Water usage/sales) (m³/million yen)	3.4	—	—	—	—	—	—	—

*9 Sum of Mitsubishi Electric Corporation (non-consolidated) and affiliated companies in Japan.
 *10 These figures have been altered in accordance with the new aggregation method.