

3

Environmental

Environmental

Executive Summary

Advancing Our Environmental Vision and Long-Term Environmental Targets

Environmental Governance

Achieving a Decarbonized Society

Achieving a Resource Efficient Society

Achieving a Harmonized Society with Nature

➤ Environmental Data

/ Environmental Data

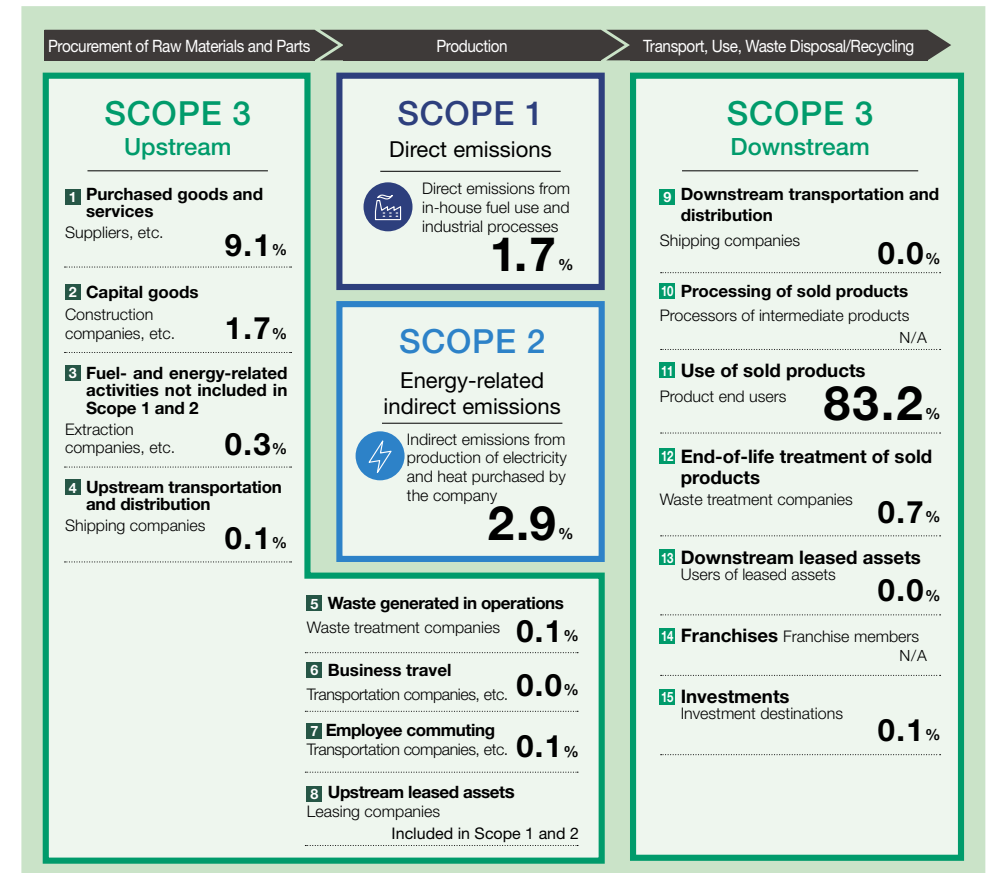
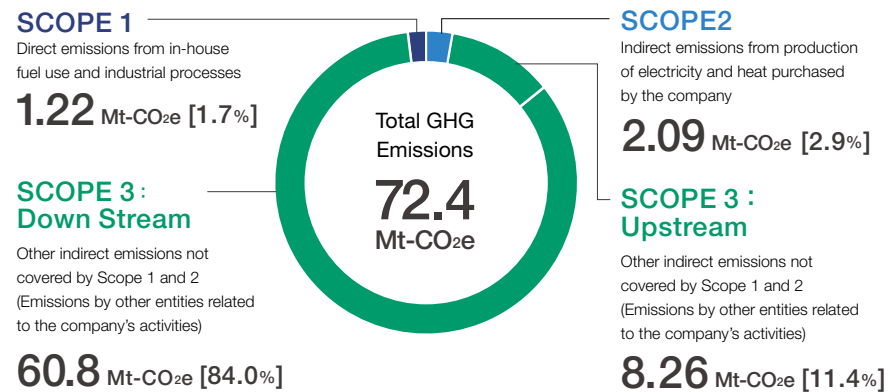
GHG Emissions Throughout the Value Chain

GRI 302-2/305-1/305-2/305-3/305-4/305-5

Calculating GHG Emissions Throughout the Value Chain (Fiscal 2020)

Hitachi calculates greenhouse gas (GHG) emissions throughout the value chain in conformance with GHG Protocol standards. This gives us a good grasp of emission hotspots in our value chain with which we can establish effective targets and reduction measures. CO₂ accounts for almost all of Hitachi's GHG emissions, with there being negligible releases of other gases, making it all the more important to focus on CO₂ reduction efforts.

An extremely high share of our value chain emissions comes from the use of the products and services we sell. We thus believe that we can make a major contribution to decarbonization through our business operations by giving priority to enhancing the efficiency and energy-saving features of our products and services.



In-house: Within the scope of the company's organizational boundaries. In principle, all business activities of the company itself and activities within or controlled by its consolidated subsidiaries.

Upstream: In principle, activities related to products and services that are purchased.

Downstream: In principle, activities related to products and services that are sold.

3

Environmental

Environmental

Executive Summary

Advancing Our Environmental Vision and Long-Term Environmental Targets

Environmental Governance

Achieving a Decarbonized Society

Achieving a Resource Efficient Society

Achieving a Harmonized Society with Nature

[Environmental Data](#)Hitachi
Sustainability
Report
2021

Detailed Data on GHG Emissions Throughout the Hitachi Value Chain (Fiscal 2020)

Category	Description	Reporting Boundary	Calculation Results (Mt-CO ₂ e)	Percentage (%)	
Scope 1¹					
Direct emissions	Direct emissions from in-house fuel use and industrial processes	Hitachi Group	1.22	1.7	
Scope 2²					
Energy-related indirect emissions	Indirect emissions from the production of electricity and heat purchased by the company	Hitachi Group	2.09	2.9	
Scope 1 and 2 total			Hitachi Group	3.31	4.6
Scope 3: Upstream (other indirect emissions)					
1 Purchased goods and services	Emissions from the resource extraction stage to the manufacturing stage, including raw materials, parts, supplied products, and sales		6.61	9.1	
2 Capital goods	Emissions generated in the construction, manufacture, and shipping of the company's own capital goods, such as equipment, devices, buildings, facilities, and vehicles		1.26	1.7	
3 Fuel- and energy-related activities not included in Scope 1 and 2	Emissions from procuring the fuel necessary for electricity and other energy production, including resource extraction, production, and shipping		0.18	0.3	
4 Upstream transportation and distribution	Emissions from the distribution of raw materials, parts, products supplied, and sales prior to the delivery of materials to the company, as well as other distribution activities of products for which the company bears the expense	Hitachi Group	0.07	0.1	
5 Waste generated in operations	Emissions from the transportation, disposal, and treatment of waste generated from the company's operations		0.07	0.1	
6 Business travel	Emissions generated from the fuel and electricity used by employees for business travel		0.01	0.0	
7 Employee commuting	Emissions generated from the fuel and electricity used by employees commuting		0.06	0.1	
8 Upstream leased assets	Emissions from the operation of assets leased by the company, excluding those counted in Scope 1 and 2		Included in Scope 1 and 2	—	
Scope 3: Downstream (other indirect emissions)					
9 Downstream transportation and distribution	Emissions from the transportation, storage, loading and unloading, and retail sales of products		0.01	0.0	
10 Processing of sold products	Emissions by downstream companies during the processing of intermediate products		N/A ³	—	
11 Use of sold products ⁴	Emissions from the use of products by end users, such as consumers and businesses		60.24	83.2	
12 End-of-life treatment of sold products sold ⁴	Emissions from the transportation, waste disposal, and treatment of products by end users, such as consumers and businesses	Hitachi Group	0.50	0.7	
13 Downstream leased assets	Emissions from the operating of assets owned by the reporting company as the lessor which are leased to other entities		0.03	0.0	
14 Franchises	Emissions by franchises under Scope 1 and 2		N/A	—	
15 Investments	Emissions related to the management of investments		0.06	0.1	
Scope 3 total			Hitachi Group	69.05	95.4
Total			Hitachi Group	72.40	100

¹ Including SF₆, PFC, HFC, N₂O, NF₃, and CH₄. The gas and fuel oil conversion factor is based on the list of emissions and calculation methods published by Japan's Ministry of the Environment.

² CO₂ emissions were calculated using the 2017 CO₂ electrical power conversion factor for countries (in CO₂ per kWh) in Emission Factors (2019 edition), published by the International Energy Agency (IEA).

³ Cannot be determined due to insufficient information about the processing.

⁴ CO₂ emissions per unit is based on the Inventory Database for Environmental Analysis (IDEA), developed by the National Institute of Advanced Industrial Science and Technology (AIST) and the Japan Environmental Management Association for Industry (JEMAI).

3

Environmental

Environmental

Executive Summary

Advancing Our Environmental Vision and Long-Term Environmental Targets

Environmental Governance

Achieving a Decarbonized Society

Achieving a Resource Efficient Society

Achieving a Harmonized Society with Nature

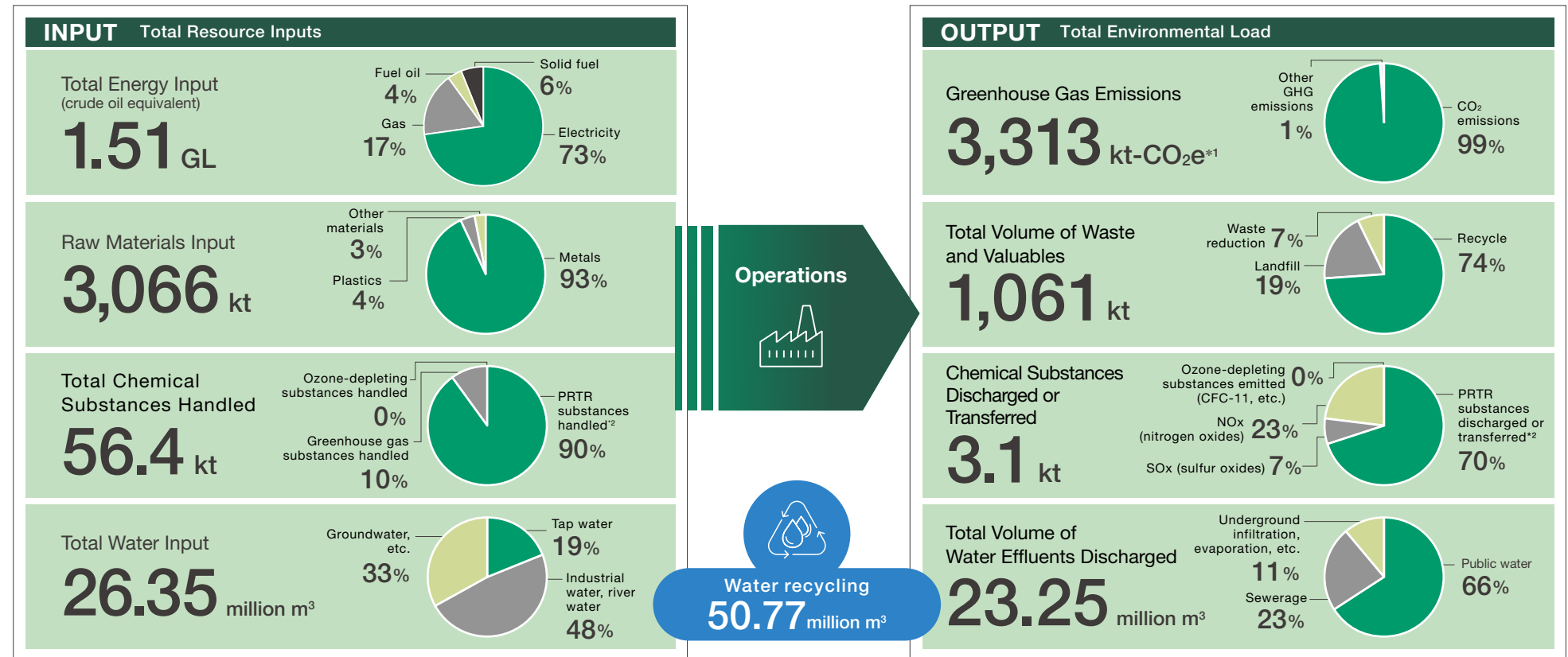
[Environmental Data](#)

Environmental Load from Operations

GRI 301-1/301-2/302-1/302-4/303-1/303-2/303-3/303-4/303-5/305-4/305-5/305-6/ 305-7/306-1/306-3/306-4/306-5

Overview of the Environmental Load from Business Operations (Hitachi Group, Fiscal 2020)

The following is an outline of total resource inputs (energy, raw materials, etc.) and the environmental load (greenhouse gas emissions, waste generation, etc.) of Hitachi Group operations during fiscal 2020.



*1 CO₂e: CO₂ equivalent. *2 PRTR substances: The 462 chemicals designated in Japan's Pollutant Release and Transfer Register (PRTR) Law.

3

Environmental

Environmental

Executive Summary

Advancing Our Environmental Vision and Long-Term Environmental Targets

Environmental Governance

Achieving a Decarbonized Society

Achieving a Resource Efficient Society

Achieving a Harmonized Society with Nature

[Environmental Data](#)Hitachi
Sustainability
Report
2021

Detailed Data on Resource Input and Environmental Load Output

Energy Inputs and GHG Emissions During Business Operations

The following is an outline of the energy consumed during Hitachi's business operations and the part of our environmental load consisting of greenhouse gas (GHG) emissions.

Energy Inputs

		Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020			
Renewable energy	Electricity	Hitachi Group	GWh (TJ)	2.9 (10.4)	3.2 (11.5)	7.1 (25.6)	18.0 (64.8)	138.2 (497.5)*1			
Non-renewable energy	Electricity	Hitachi Group	GWh (PJ)	5,903 (57.4)	6,020 (58.4)	6,021 (58.4)	5,992 (58.2)	4,498 (43.9)			
				For heating	—	130 (1.3)	128 (1.3)	128 (1.3)	96 (1.0)		
				For cooling	—	277 (2.7)	273 (2.7)	273 (2.7)	208 (2.0)		
			To generate steam	kt (TJ)	—	3.2 (7.7)	3.2 (7.7)	3.2 (7.7)	3.2 (7.7)		
	Gas		Natural gas	Hitachi Group	Billion m ³ (PJ)	0.18 (8.1)	0.19 (8.6)	0.18 (8.4)	0.15 (7.0)	0.11 (4.8)	
						For heating	—	18.4 (0.9)	18.6 (0.9)	18.6 (0.9)	14.2 (0.6)
						For cooling	—	10.3 (0.5)	10.5 (0.5)	10.5 (0.5)	8.0 (0.4)
						To generate steam	—	291 (0.68)	268 (0.63)	232 (0.54)	161 (0.38)
			LPG, LNG, etc.		kt (PJ)	241 (13.0)	269 (14.5)	251 (13.5)	150 (8.0)	111 (5.9)	
			Fuel oil (heavy oil, kerosene, etc.)		ML (PJ)	149 (5.6)	117 (4.5)	87 (3.3)	75 (2.9)	61 (2.3)	
	Solid fuel (coke)		kt (PJ)	173 (5.2)	179 (5.4)	188 (5.5)	162 (4.8)	137 (4.0)			
Total energy consumption (crude oil equivalent)			Hitachi Group	PJ (GL)	89 (2.30)	91 (2.35)	88 (2.27)	81 (2.07)	61 (1.51)		

*1 From FY 2020, the amount of purchased renewable energy is added to the amount of generated renewable energy.

Greenhouse Gases Emitted

		Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	
CO ₂ emissions		Hitachi Group	kt-CO ₂	5,322	5,433	4,973	4,374	3,296	
Other GHGs	SF ₆ (sulfur hexafluoride)	Hitachi Group	kt-CO ₂ e	37	40	35	24	11	
	PFCs (perfluorocarbons)			4	4	5	4	0	
	HFCs (hydrofluorocarbons)			19	7	3	3	1	
	N ₂ O, NF ₃ , CH ₄ (dinitrogen monoxide, nitrogen trifluoride, methane)			2	1	3	2	2	
	CO ₂ from non-energy sources			3	3	7	8	3	
Total GHGs*1			Hitachi Group	kt-CO ₂ e	5,387	5,488	5,026	4,415	3,313

*1 Total GHGs: Scope 1 and 2 total

Notes: • CO₂ emissions indicate the total of Scope 1 and Scope 2 emissions which are associated with those emerging from energy use. Those emissions emerging from renewable energy are considered zero.

- CO₂ emissions from electricity consumption is calculated using a market-based calculation method. Regarding CO₂ electrical power conversion factors: In Japan (including power plants), adjusted conversion factors for individual power businesses based on the Act on Promotion of Global Warming Countermeasures are used; outside of Japan, the latest values for each fiscal year supplied by the International Energy Agency (IEA) and by power supply companies as conversion factors for individual countries are used.
- The gas and fuel oil conversion factor is based on the list of emissions and calculation methods published by Japan's Ministry of the Environment.

3

Environmental

Environmental

Executive Summary

Advancing Our Environmental Vision and Long-Term Environmental Targets

Environmental Governance

Achieving a Decarbonized Society

Achieving a Resource Efficient Society

Achieving a Harmonized Society with Nature

[Environmental Data](#)

Raw Material Inputs and Waste and Valuables Generation During Business Operations

The following is an outline of the raw materials used during Hitachi's business operations and the part of our environmental load consisting of the generation of waste and valuables.

Raw Material Inputs

			Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Raw materials	Metals	New materials	Hitachi Group	kt	2,710	3,388	4,031	3,454	2,861
		Recycled materials, etc.			1,497	1,571	1,624	1,372	1,075
					1,213	1,817	2,407	2,082	1,786
	Plastics	New materials			169	151	165	147	115
		Recycled materials, etc.			167	150	163	143	113
					2	1	2	4	2
	Other materials	New materials			314	258	207	175	90
		Recycled materials, etc.			308	250	201	173	89
					6	8	6	2	1
Total amount of raw materials			Hitachi Group	kt	3,193	3,797	4,403	3,776	3,066

Waste and Valuables Generated

			Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Waste reduction			Hitachi Group	kt (kt ⁻¹)	68 (0.4)	83 (9.0)	94 (5.6)	101 (17.5)	75 (9.8)
Recycle	Reuse				1 (0.4)	1 (0.4)	1 (0.0)	5 (2.2)	35 (11.4)
	Materials recycled	Hitachi Group	kt (kt ⁻¹)	1,001 (21.5)	1,038 (20.2)	1,044 (25.6)	919 (25.3)	740 (17.6)	
	Thermal recovery				12 (2.4)	11 (1.4)	13 (1.4)	21 (4.9)	11 (5.4)
Landfill			Hitachi Group	kt (kt ⁻¹)	254 (2.0)	223 (5.2)	232 (3.7)	256 (6.1)	200 (4.9)
Total waste and valuables generated			Hitachi Group	kt	1,336	1,356	1,384	1,302	1,061
Nonhazardous (hazardous)			Hitachi Group	kt (kt ⁻¹)	1,309 (27)	1,320 (36)	1,348 (36)	1,246 (56)	1,012 (49) ^{*2}

*1 Figures in parentheses are the generation of waste defined as hazardous under the Basel Convention.

*2 The hazardous wastes imported and exported are zero tons, and hazardous wastes transported internationally are 0%.

3

Environmental

Environmental

Executive Summary

Advancing Our Environmental Vision and Long-Term Environmental Targets

Environmental Governance

Achieving a Decarbonized Society

Achieving a Resource Efficient Society

Achieving a Harmonized Society with Nature

[Environmental Data](#)

Inputs, Discharges, and Transfers of Chemical Substances During Business Operations

The following is an outline of the chemical substances handled during Hitachi's business operations and the part of our environmental load consisting of chemical substance discharges and transfers.

Chemical Substances Handled

		Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Chemical substances handled	PRTR substances handled	Hitachi Group	kt	190	205	189	177	51 ^{*1}
	Ozone-depleting substances handled		t	208	1,219	561	241	0.25
	Greenhouse gas substances handled			3,425	5,656	6,332	8,520	5,426
	Total amount of chemicals handled		Hitachi Group	kt	193.6	211.9	195.9	185.8

Chemical Substances Discharged or Transferred

		Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Chemical substances discharged or transferred	PRTR substances discharged or transferred	Hitachi Group	kt	4.5	4.3	4.1	3.4	2.1
	SOx (sulfur oxides)		t	290	297	274	256	209
	NOx (nitrogen oxides)			1,007	929	930	822	706
	Ozone-depleting substances emitted (CFC-11, etc.)		t (t-ODP ^{*2})	1.1(0.05)	24 (0.61)	27 (0.70)	9.8 (0.28)	0.06 (0.002)
Total Amount of Discharges and Transfers	Hitachi Group	kt	5.8	5.5	5.3	4.5	3.1	

*1 Due to deconsolidation of material company, the handling volume decreased.

*2 ODP (ozone depletion potential): A coefficient indicating the extent to which a chemical compound may cause ozone depletion relative to depletion by CFC-11 (trichlorofluoromethane, ODP = 1.0). The conversion factor uses the ODP and global warming potential published by Japan's Ministry of the Environment.

3

Environmental

Environmental

Executive Summary

Advancing Our Environmental Vision and Long-Term Environmental Targets

Environmental Governance

Achieving a Decarbonized Society

Achieving a Resource Efficient Society

Achieving a Harmonized Society with Nature

[Environmental Data](#)

Water Inputs and Effluent Discharges During Business Operations

The following is an outline of the total amount of water resources used during Hitachi's business operations and the part of our environmental load consisting of effluent discharges.

Water Input¹

		Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Surface water	Tap water (water for drinking and other household uses)	Hitachi Group	Million m ³	7.77	7.4	7.61	7.95	5.10
	Industrial water, river water		Million m ³	18.41	17.46	16.63	15.58	12.62
Groundwater		Hitachi Group	Million m ³	14.92	13.56	12.74	12.84	8.60
Rain water			Million m ³	0.03	0.02	0.01	0.02	0.01
Recycled water (recycled from the wastewater of other organizations)			Million m ³	0.21	0.1	0.03	0.02	0.01
Total water use		Hitachi Group	Million m ³	41.34	38.54	37.02	36.41	26.35

*1 There is no water intake from the sea.

Water Effluents Discharged¹

		Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Public water		Hitachi Group	Million m ³	26.16	23.12	22.44	22.46	15.29
Sewerage			Million m ³	8.93	8.62	8.18	7.74	5.44
Underground infiltration, evaporation, etc.			Million m ³	3.68	3.39	3.48	3.21	2.52
Total water effluents discharged		Hitachi Group	Million m ³	38.77	35.13	34.1	33.41	23.25
Water quality	BOD (biochemical oxygen demand)	Hitachi Group	t	347	380	368	204	172
	COD (chemical oxygen demand)* ²		t	531	575	1,648	383 ²	400

*1 There is no discharge into the sea.

*2 The fiscal 2019 figure excludes business sites (which accounted for around 60% of demand the previous year) from which data collection was hampered due to the spread of COVID-19.

3

Environmental

Environmental

Executive Summary

Advancing Our Environmental Vision and Long-Term Environmental Targets

Environmental Governance

Achieving a Decarbonized Society

Achieving a Resource Efficient Society

Achieving a Harmonized Society with Nature

[Environmental Data](#)

Environmental Load by Region

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CO₂ Emissions by Region

	Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Japan			2,392	2,377	2,285	2,030	1,448
China			265	283	236	264	185
ASEAN, India, and other Asian regions			470	499	540	572	360
North America	Hitachi Group	kt-CO ₂	1,415	1,461	1,286	1,167	1,003
Europe			10	16	15	30	18
Other regions			38	58	57	83	56
Power plants			732	739	554	228	226
Total	Hitachi Group	kt-CO₂	5,322	5,433	4,973	4,374	3,296

Notes: • Regional classifications were changed in fiscal 2020, and the past data was recalculated based on this.

• Regarding CO₂ electrical power conversion factors: in Japan (including power plants), adjusted conversion factors for individual power businesses based on the Act on Promotion of Global Warming Countermeasures are used; outside of Japan, the latest values for each fiscal year supplied by the International Energy Agency (IEA) as conversion factors for individual countries are used; outside of Japan, the latest values for each fiscal year supplied by the International Energy Agency (IEA) and by power supply companies as conversion factors for individual countries are used.

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Water Input by Region

	Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Japan			32.72	30.17	29.00	28.01	19.50
China			1.51	1.51	1.34	1.32	0.95
ASEAN, India, and other Asian regions			4.00	4.04	3.93	4.09	1.92
North America	Hitachi Group	Million m ³	2.98	2.56	2.45	2.36	3.30
Europe			0.02	0.04	0.04	0.28	0.36
Other regions			0.11	0.22	0.26	0.35	0.33
Total	Hitachi Group	Million m³	41.34	38.54	37.02	36.41	26.35

Note: Regional classifications were changed in fiscal 2020, and the past data was recalculated based on this.

3

Environmental

Environmental

Executive Summary

Advancing Our Environmental Vision and Long-Term Environmental Targets

Environmental Governance

Achieving a Decarbonized Society

Achieving a Resource Efficient Society

Achieving a Harmonized Society with Nature

[Environmental Data](#)

Waste and Valuables Generated by Region

	Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Japan			435	455	461	418	311
China			48	55	55	56	50
ASEAN, India, and other Asian regions			107	117	130	148	100
North America	Hitachi Group	kt	737	713	722	656	582
Europe			2	4	4	10	9
Other regions			7	12	12	14	9
Total	Hitachi Group	kt	1,336	1,356	1,384	1,302	1,061

Note: Regional classifications were changed in fiscal 2020, and the past data was recalculated based on this.

Achieving a Harmonized Society with Nature

Atmospheric Emissions of Chemical Substances by Region

	Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Japan			3,182	3,058	3,032	2,697	1,563
China			291	245	184	125	84
ASEAN, India, and other Asian regions			661	898	966	754	439
North America	Hitachi Group	t	118	104	94	197	158
Europe			57	58	65	57	35
Other regions			15	13	12	52	93
Total	Hitachi Group	t	4,325	4,378	4,352	3,882	2,374

Notes: • Atmospheric emissions of VOCs and other chemical substances are calculated from the content rate stated in the ingredients.
• Regional classifications were changed in fiscal 2020, and the past data was recalculated based on this.

3

Environmental

Environmental

Executive Summary

Advancing Our Environmental Vision and Long-Term Environmental Targets

Environmental Governance

Achieving a Decarbonized Society

Achieving a Resource Efficient Society

Achieving a Harmonized Society with Nature

[Environmental Data](#)

Environmental Management Data

Number of ISO 14001 Certified Companies (as of March 2021)

	Reporting Boundary	Unit	FY 2020
Japan	Hitachi Group ^{*1}	Companies	85
China			43
ASEAN, India, and other Asian regions			42
North America			10
Europe			17
Other regions			5
Total			202

*1 Companies with at least one certified business site.

Note: Regional classifications are revised from those used in fiscal 2020 and Mexico, the Middle East, Central and South Africa and other Asian regions were added as other regions.

Number of Regulatory Violations and Complaints

		Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Regulatory violations	Water quality	Hitachi Group	Cases	1	3	4	4	5
	Air quality			2	1	2	0	0
	Waste materials			1	0	3	0	4
	Other (equipment registration, etc.)			2	4	4	1	1
Complaints	Hitachi Group	Cases	6	5	3	5	3	

3

Environmental

Environmental

Executive Summary

Advancing Our Environmental Vision and Long-Term Environmental Targets

Environmental Governance

Achieving a Decarbonized Society

Achieving a Resource Efficient Society

Achieving a Harmonized Society with Nature

[Environmental Data](#)Environmental Accounting GRI 201-1

Environmental Investments

		Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Total investments	Investments in energy-saving equipment and equipment that directly reduces the environmental load	Hitachi Group	Billions of yen	5.12	10.99	9.86	9.71	5.75

Environmental Protection Costs

		Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Expenses	Business area	Hitachi Group	Billions of yen	19.19	22.17	23.57	22.62	19.14
	Upstream/Downstream			0.63	0.72	0.68	0.68	0.62
	Administration			5.12	5.69	6.72	4.98	5.88
	Research and development costs			63.13	62.55	61.86	77.01	60.64
	Social activities			1.21	1	0.93	0.25	0.22
	Environmental remediation			0.22	0.33	0.4	0.17	0.12
Total		Hitachi Group	Billions of yen	89.50	92.46	94.16	105.71	86.62

*1 Equipment depreciation costs are calculated using the straight-line method over five years

3

Environmental

Environmental

Executive Summary

Advancing Our Environmental Vision and Long-Term Environmental Targets

Environmental Governance

Achieving a Decarbonized Society

Achieving a Resource Efficient Society

Achieving a Harmonized Society with Nature

[Environmental Data](#)

Environmental Protection Effects

Economic Effects^{*1}

	Major FY 2020 Activities	Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Net income effects	Recovering value from waste by sorting and recycling	Hitachi Group	Billions of yen	4.96	6.90	8.35	12.42	9.66
Cost reduction effects	Installing high-efficiency equipment (lighting, power supply, etc.)			7.77	14.54	7.70	6.20	4.62
Total		Hitachi Group	Billions of yen	12.73	21.44	16.05	18.62	14.28

*1 Economic effects include the following:

– Net income effects: Real income from the sale of valuable materials and environmental technology patents.

– Cost reduction effects: Reductions in electricity, waste treatment, and other expenses through activities that reduce environmental loads.

Physical Effects^{*1} (amount of reduction)

	Major FY 2020 Activities	Reporting Boundary	Unit	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020
Reduction in energy used during production	Installing LED lighting, upgrading air-conditioning equipment, etc.	Hitachi Group	Million kWh	51	41	55	48	51

*1 The effect of capital investments is calculated by the reduction in electricity consumption in the fiscal year it was invested each fiscal year.

Environmental Liability

We have appropriated 5.5 billion yen in costs for the disposal of waste containing PCB and 2.4 billion yen to clean up contaminated soil as the amounts that we can reasonably project, as of end of March 2021, as future environmental liabilities.