

Non-Financial Data (Environmental)

E

		FY2018	FY2019	FY2020	FY2021	FY2022
Energy (GJ)						
	Japan	476,883	507,142	516,995	561,326	562,673
	Asia (excluding Japan)	164,649	152,798	94,207	162,282	151,871
	North America	105,401	105,556	85,092	80,694	84,005
	Europe	35,031	42,338	43,227	46,607	38,311
	Others	-	-	-	-	2,871
	Total	781,964	807,834	739,520	850,909	839,731
Per Unit of Sales(GJ/100 million yen)		474	508	624	572	480

Electricity (MWh)

Purchased Electricity	Non-Renewable Energy	71,505	74,366	69,409	78,688	60,253
	Renewable Energy	66	67	61	47	37
	Biomass	0	0	0	48	47
	Water Power	0	0	0	0	20,316
	MIX	0	0	0	0	0
In-House Power Generation	Non-Renewable Energy	341	273	362	452	345
	Renewable Energy	512	808	1,194	1,471	1,666
	Solar Power	72,425	75,513	71,025	80,706	82,664
Total		134,063	150,014	140,876	160,365	143,912
Ratio of Renewable Energy (%)		0.80%	1.16%	1.77%	1.94%	26.69%
Per Unit of Sales (MWh/100 million yen)		44	47	60	54	47

Water Intake (m³)

By Region						
	Japan	226,099	228,977	222,829	208,807	228,083
	Asia (excluding Japan)	118,373	93,598	66,148	92,850	86,296
	North America	26,999	19,995	17,536	14,673	14,542
	Europe	4,587	4,964	5,815	6,041	1,990
	Total	376,058	347,534	312,327	322,371	330,911
By Water Resources						
	Tap Water	136,802	123,878	117,114	123,440	107,542
	Industrial Water	239,256	223,656	195,214	198,931	223,369
	Fresh Surface Water from River, Lake, Natural Pond	0	0	0	0	0
	Groundwater from Wells, Boreholes	0	0	0	0	0
	Water Taken from Quarries	0	0	0	0	0
	External Drainage	0	0	0	0	0
	Collected Rainwater	0	0	0	0	0
	Seawater, Water Taken from Sea and Ocean	0	0	0	0	0
Per Unit of Sales (m ³ /100 million yen)		228	219	264	217	189

Water Discharge (m³)

By Region						
	Japan	225,524	220,043	220,732	222,189	220,174
	Asia (excluding Japan)	101,325	91,228	62,560	88,095	85,133
	North America	27,001	19,808	17,224	14,664	13,274
	Europe	2,772	3,234	3,914	5,917	1,901
	Total	356,623	334,313	304,430	330,865	320,481
By Discharge Route						
	River	280,458	262,067	233,636	259,661	252,135
	Sewage	76,165	72,246	70,794	71,204	68,346
	Seawater	0	0	0	0	0
	Fresh Surface Water	0	0	0	0	0
	Wells, Ground Water	0	0	0	0	0
	Water Treatment Off-site	0	0	0	0	0
	Reuse, Other Uses	0	0	0	0	0
Per Unit of Sales (m ³ /100 million yen)		216	210	257	222	183

Waste (t)

Total Waste Output						
	Japan	776	754	712	749	725
	Asia (excluding Japan)	195	164	44	215	215
	North America	333	304	84	20	45
	Europe	87	31	42	62	45
	Total	1,392	1,252	881	1,045	1,029
By Type of Waste						
	Disposal in a Landfill	268	275	159	199	215
	Amount of Effectively Utilized Resources	1,124	977	722	524	441
	Amount of Hazardous Waste (*1)	76	67	77	72	67
Per Unit of Sales (t/100 million yen)		1	1	1	1	1

GHG (CO₂) Emissions (t-CO₂) (*2)

SCOPE1 By Region						
	Japan	2,579	2,588	2,529	3,001	2,812
	Asia (excluding Japan)	435	334	202	246	250
	North America	638	568	450	493	528
	Europe	341	402	398	444	322
	Total	3,992	3,892	3,580	4,184	3,913
By Type of Energy						
	Utility Gas	2,256	2,143	1,968	2,536	2,425
	LPG	71	115	61	64	62
	LNG	335	397	396	438	314
	Gasoline	502	344	231	269	277
	Kerosene	806	869	919	871	830
	Light Oil	22	24	4	4	4
	Heavy Oil A	0	0	1	2	0
	Steam*Heat	0	0	0	0	0
SCOPE2 Market-Based						
	Japan	20,199	19,679	19,860	21,199	14,515
	Asia (excluding Japan)	9,170	8,557	5,988	10,476	10,862
	North America	2,607	2,641	2,047	1,308	1,348
	Europe	1,330	1,779	1,902	1,500	1,733
	Others	-	-	-	-	177
	Total	33,305	32,656	29,798	34,482	28,635
SCOPE2 Location-Based						
	Japan	-	-	-	-	26,751
	Asia (excluding Japan)	-	-	-	-	11,215
	North America	-	-	-	-	1,994
	Europe	-	-	-	-	1,508
	Others	-	-	-	-	176
	Total	-	-	-	-	41,643
SCOPE1+2						
	Total of Market-Based	37,296	36,548	33,378	38,666	32,548
	Total of Location-Based	-	-	-	-	45,556
	Per Unit of Sales of Market-Based (t-CO ₂ /100 million yen)	23	23	28	26	19
	Per Unit of Sales of Location-Based (t-CO ₂ /100 million yen)	-	-	-	-	26

SCOPE3		614,361	502,654	394,197	405,712	387,144
	Category 1					
	Category 2	19,789	21,943	18,180	19,901	21,620
	Category 3	3,959	3,462	3,122	3,651	2,793
	Category 4	242	475	338	412	445
	Category 5	687	661	505	509	3,107
	Category 6	741	727	657	694	696
	Category 7	2,206	2,153	1,875	2,218	2,226
	Category 8	Not eligible, because it is included in SCOPE 2				
	Category 9	Not eligible, because of no customer-borne transportation				
	Category 10	Not eligible, because of no product processing				
	Category 11	7,177,707	5,575,580	3,733,573	5,081,667	6,919,343
	Category 12	9	6	2	4	3
	Category 13	Not eligible, because we don't have leased assets				
	Category 14	Not eligible, because there is no franchises				
	Category 15	Not eligible, because there is no investments				
	Total	7,819,701	6,107,661	4,152,450	5,514,770	7,337,378
	Per Unit of Sales (t-CO ₂ /100 million yen)	4,736	3,841	3,504	3,706	4,193

Chemical Substances

VOC	Chloroform (t)	Usage Volume	8.6	4.7	6.9	9.7	10.8
		Emissions to the Air	8.3	4.5	6.7	9.4	10.5

Environmental Accounting (million yen)

Pollution Prevention Cost and Effectiveness	Cost	20.1	11.3	8.9	9.7	13.2
	Facilities	4.7	0.0	0.0	0.0	5.0
	Substantial Effect	0.0	0.2	0.0	0.0	0.0
	Presumptive Effect	0.0	0.0	0.0	0.0	0.0
Global Warming Prevention Cost and Effectiveness	Cost	96.1	46.4	43.2	10.8	51.2
	Facilities	48.1	18.9	1.4	29.7	94.0
	Substantial Effect	11.7	22.8	1.1	1.1	20.4
	Presumptive Effect	0.8	0.0	0.0	0.0	0.0
Resource Circulation Cost and Effectiveness	Cost	69.6	46.9	33.5	30.8	45.0
	Facilities	0.0	0.0	0.0	9.9	7.3
	Substantial Effect	27.3	10.8	11.8	11.8	27.4
	Presumptive Effect	0.0	0.0	0.0	0.0	0.0
Upstream / Downstream Cost and Effectiveness	Cost	36.0	1.8	0.6	0.4	0.3
	Facilities	0.0	0.0	0.0	1.6	0.0
	Substantial Effect	0.0	0.0	0.0	0.0	0.0
	Presumptive Effect	0.0	0.0	0.0	0.0	0.0
Administration Cost and Effectiveness	Cost	91.2	89.4	21.6	64.7	63.5
	Facilities	0.0	2.7	0.0	10.5	0.0
	Substantial Effect	0.0	0.0	0.0	0.0	0.0
	Presumptive Effect	0.0	0.0	0.0	0.0	0.7
R&D Cost and Effectiveness	Cost	66.0	66.0	122.6	635.1	1.9
	Facilities	0.0	0.0	0.0	0.0	3.8
	Substantial Effect	0.0	0.0	0.0	0.0	0.0
	Presumptive Effect	0.0	0.0	0.0	0.0	0.0
Social Activity Cost and Effectiveness	Cost	105.2	1.9	8.5	63.6	8.1
	Facilities	0.0	0.0	0.0	0.0	0.0
	Substantial Effect	0.0	0.0	0.0	0.0	0.0
	Presumptive Effect	0.0	0.0	0.0	0.0	0.0
Environmental Remediation Cost and Effectiveness	Cost	0.0	0.0	0.0	0.0	0.0
	Facilities	0.0	0.0	0.0	0.0	0.0
	Substantial Effect	0.0	0.0	0.0	0.0	0.0
	Presumptive Effect	0.0	0.0	0.0	0.0	0.0

Violation and Fine Related to Environment

Number of Incidents of Environmental Violation	0	0	0	0	0
Amount of Fine (million yen)	0.0	0.0	0.0	0.0	0.0

Eco-Balance

IN	Manufacturing	Energy	Energy (GJ)	781,964	807,834	739,520	850,909	839,731	
			Electricity (MkWh)	72,425	75,513	71,025	80,706	82,664	
			Utility Gas (m ³)	1,070,338	1,016,511	933,718	1,268,771	1,109,051	
			LPG (kg)	24,099	38,930	20,894	21,822	21,153	
			LNG (kg)	121,058	143,248	143,183	158,072	113,452	
			Water(m ³)	376,058	347,534	312,327	322,371	330,911	
Transportation	Chemical Substances (t)		11.0	9.7	9.0	10.0	11.4		
		Fuel (L)	212,123	153,593	75,805	174,010	174,563		
OUT	Manufacturing	Air Emission	CO ₂ (t-CO ₂)	37,296	36,548	33,378	38,666	32,548	
			Waste	Total Waste Volume (t)	1,392	1,252	881	1,045	1,029
				Disposal in a Landfill (t)	268	275	159	199	215
			Water Discharge	Water (m ³)	356,623	334,313	304,430	330,865	320,481
				Chemical Substances (t)	0	8.3	9.0	9.0	10.5
			Transportation	Air Emission (t-CO ₂)	0	475	283	412	445

Environmental Management System

ISO14001 Certification	Percentage of Employees at Certified Sites in Japan (%)	-	-	-	-	97.4
	Percentage of Employees at Certified Sites Outside of Japan (%)	-	-	-	-	47.2
	Percentage of Group Manufacturing Sites Acquired (%)	-	-	-	-	52.9

Note

*1 Specially-controlled industrial waste

*2 GHG other than CO₂ are not emitted.

*Items not indicated as "non-consolidated" are consolidated figures.

*Regarding the calculation method of SCOPE 1, 2, and 3, please refer to "Calculation Method" below.

Calculation Method

SCOPE/Category		Details
SCOPE 1	Direct emissions from owned or controlled sources	Each energy used × Emission factor by energy type were calculated, and summed
SCOPE 2	Indirect emissions from the generation of purchased electricity consumption	Electricity used at each site× Emission factor by purchased electricity were calculated, and summed Emission factor : Emission factor by purchased electricity Where the purchased electricity emission factor is not known, the Emission Factors by Electric Utility Operator published by the Japanese Ministry of the Environment for each fiscal year are used for cases in Japan. For overseas cases, the CO ₂ Emissions from Fuel Combustion 2013 published by the International Energy Agency (IEA) are used for fiscal years 2018 to 2020 and Emissions Factors 2021 published by IEA are used for fiscal years from 2021 onward.
SCOPE 3	Category 1	Purchased goods and services
	Category 2	Capital goods
	Category 3	Fuel- and energy related activities (not included in scope 1 or scope 2)
	Category 4	Upstream transportation and distribution
	Category 5	Waste generated in operations
	Category 6	Business travel
	Category 7	Employee commuting
	Category 8	Upstream leased assets
	Category9	Downstream transportation and distribution
	Category 10	Processing of sold products
	Category 11	Use of sold products
	Category 12	End-of-life treatment of sold products
	Category 13	Downstream leased assets
	Category 14	Franchises
	Category 15	Investments

NOTE

※1 Emission Factor :Emission intensity database for calculating greenhouse gas emissions and other emissions of an organization through its supply chain

※2 Emission Factor: LCI Data BaseIDEAv2 (For supply chain GHG emissions calculation)

Status of EMS Construction (Ushio Group's ISO14001 Certification)

Ushio Inc. and Japanese subsidiaries

Company/division name	ISO14001 certification received
Ushio Inc.	1997
Ushio Lighting Inc.	2003
ADTEC Engineering Co., Ltd.	2006
*XEBEX Inc.	2008

* Non-production business sites

Overseas subsidiaries

Company/division name	ISO14001 certification received
Ushio Philippines, Inc.	2004
Ushio (Suzhou) Co., Ltd.	2005
*Ushio Taiwan, Inc.	2006
*Ushio Korea, Inc.	2006
*Ushio Asia Pacific Pte Ltd.	2007
*Ushio Hong Kong Ltd.	2008
*Ushio Shanghai, Inc.	2009
Ushio (Shaoguan) Co., Ltd.	2015

* Non-production business sites