

Material Issues

Environmental Data

Materiality	Classification	Sources	Scope	Unit	FY2018	FY2019	FY2020	FY2021		
Carbon Neutrality	Energies	Electricity	Global total		800,413	736,508	533,095	503,399		
			Japan	thousand kWh	381,748	311,456	127,521	93,177		
			Outside Japan		418,665	425,052	405,573	410,221		
		CO ₂ free electricity	Global total				82,549	201,858	265,242	
			Japan	thousand kWh			74,805	194,051	226,690	
			Outside Japan				7,744	7,807	38,552	
		Natural gas & City gas	Global total				75,892	72,075	71,600	68,084
			Japan	thousand m ³			32,812	32,014	31,498	31,153
			Outside Japan				43,080	40,061	40,101	36,930
		Coal	Global total				58,695	67,707	57,968	60,203
			Japan	t			0	0	0	0
			Outside Japan				58,695	67,707	57,968	60,203
		Steam	Global total				374,805	363,460	343,067	355,317
			Japan	t			163,871	158,207	152,076	152,010
			Outside Japan				210,934	205,253	190,991	203,307
		LNG	Global total				12,061	13,337	14,104	16,142
			Japan	t			11,887	13,055	13,823	15,729
			Outside Japan				174	282	281	413
		A HFO	Global total				10,350	9,516	7,945	5,025
			Japan	kL			10,113	9,516	7,945	5,025
			Outside Japan				237	0	0	0
		LPG	Global total				5,486	6,046	5,870	5,990
			Japan	t			5,154	5,776	5,596	5,664
			Outside Japan				332	270	274	327
		Diesel	Global total				968	543	436	452
			Japan	kL			54	69	58	20
			Outside Japan				914	474	378	432
Kerosene	Global total				148	145	130	133		
	Japan	kL			148	145	130	133		
	Outside Japan				0	0	0	0		
Gasoline	Global total				56	50	115	48		
	Japan	kL			56	50	115	48		
	Outside Japan				0	0	0	0		
Steam (non industrial)	Global total				988	1,033	1,084	1,198		
	Japan	GJ			988	1,033	1,084	1,198		
	Outside Japan				0	0	0	0		
Hot water	Global total				193	2,408	2,567	1,371		
	Japan	GJ			192	163	173	138		
	Outside Japan				1	2,245	2,393	1,233		
Cold water	Global total				5,842	11,400	11,774	3,897		
	Japan	GJ			5,842	11,400	11,774	3,897		
	Outside Japan				0	0	0	0		

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Environmental Data and Third-Party Verification

Materiality	Classification	Sources	Scope	Unit	FY2018	FY2019	FY2020	FY2021	
Carbon Neutrality	Renewable Energies	Solar power	Global total	thousand kWh	420	1,674	3,869	6,727	
			Japan		342	356	1,409	4,069	
			Outside Japan		78	1,318	2,459	2,658	
		Solar water heater	Global total	GJ	271	222	222	0	
			Japan		0	0	0	0	
			Outside Japan		271	222	222	0	
		Biomass power	Global total	thousand t	7	1	7	13	
			Japan		0	0	0	0	
			Outside Japan		7	1	7	13	
	CO ₂	CO ₂ emissions	Global total	thousand t-CO ₂	842	821	706	684	
			Japan		324,162	282,243	207,281	188,999	
			Outside Japan		518,329	538,525	498,754	494,704	
		CO ₂ emissions per sales	Global total	t/¥ million	0.65	0.59	0.50	0.46	
		GHG emissions throughout the value chain			thousand t-CO ₂	1,399	1,320	1,118	1,030
		Scope1				98,308	138,583	125,038	128,464
		Scope2				179,389	92,444	36,647	8,255
		Scope3 breakdown	Category 1			748,933	730,219	635,542	592,537
			Category 2			84,157	85,119	52,402	38,763
			Category 3			31,518	29,633	45,579	34,167
			Category 4			82,176	79,981	70,621	70,519
			Category 5			12,143	11,851	12,836	13,535
			Category 6	Japan ¹	t-CO ₂	11,677	10,882	6,030	5,413
			Category 7			5,801	5,888	5,773	5,917
			Category 8			9,121	8,463	6,356	7,258
			Category 9			22,936	22,484	20,407	20,736
Category 10						N/A			
Category 11	78,554		81,034			80,209	79,452		
Category 12	34,766		23,681			20,751	21,163		
Category 13				N/A					
Category 14			N/A						
Category 15			N/A						
Water Neutrality	Water	Water usage	Global total	thousand m ³	19,463	18,756	17,732	17,680	
			Japan		13,010	12,274	11,605	10,909	
			Outside Japan		6,453	6,482	6,127	6,772	
		Water use efficiency	Global total	t/¥ million	15.1	13.4	12.5	11.8	
		Water intake by water source	Municipal water (including industrial water)	thousand m ³	14,110	13,561	12,793	13,548	
			River water		1,417	1,382	1,312	125	
			Ground water		3,936	3,813	3,627	4,007	
		Wastewater by destination	Rivers, lakes and marshes	thousand m ³		12,345	11,717	11,194	
			Underground seepage			61	60	4	
			Area of ocean			1,267	1,002	1,051	
			Third-party processing (municipal sewage, etc.)			3,109	2,886	2,873	
Total Amount of Wastewater					16,782	15,666	15,122		

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Materiality	Classification	Sources	Scope	Unit	FY2018	FY2019	FY2020	FY2021	
Circular Economy	Material	Material	Japan ¹	t	127,473	125,289	114,847	114,771	
		Plastics	PET		16,888	14,376	11,963	12,028	
	Packaging material	Others	Japan ¹	t	17,660	17,783	16,028	14,998	
		Paper and cardboard			37,465	36,388	33,149	32,481	
		Others			97,843	95,658	89,826	88,949	
							97,441	88,878	90,147
	Waste ²	Total amount of waste	Global total				97,441	88,878	90,147
			Japan	t	38,378	43,083	35,723	35,246	
			Outside Japan			54,358	53,155	54,901	
		Recycled materials	Global total				74,618	64,027	64,395
			Japan	t	34,930	38,805	30,647	30,352	
			Outside Japan			35,813	33,380	34,043	
		Total (Including valuables)	Global Breakdown	Material Recycling	t		42,236	39,243	36,804
				Thermal Recycle		12,121	9,528	11,911	
				Composting and feed ⁴			20,261	15,256	15,680
		Final disposal	Global total				5,048	4,841	6,171
			Japan	t		4,163	4,068	3,983	
			Outside Japan			885	773	2,188	
		(landfill)	Global total				11,075	9,632	10,226
			Japan	t	166	115	99	112	
			Outside Japan			10,960	9,533	10,114	
	Bio-processing and chemical processing	Global total					10,379	9,355	
		Japan	t				909	799	
		Outside Japan					9,470	8,556	
	Hazardous ³	Total amount of waste	Global total				9,761	9,793	10,703
			Japan	t	4,250	3,771	3,836	4,513	
			Outside Japan			5,990	5,958	6,190	
		Recycled materials	Global total				5,318	4,549	5,450
			Japan	t	2,480	1,638	1,653	2,174	
			Outside Japan			3,680	2,897	3,276	
Total (Including valuables)		Global Breakdown	Material Recycling	t		2,634	96	2,257	
			Thermal Recycle			2,441	1,556	3,193	
			Composting and feed ⁴			243	0	0	
Final disposal		Global total				2,389	2,443	2,694	
		Japan	t		2,124	2,047	2,235		
		Outside Japan			265	396	459		
(landfill)		Global total				1,572	1,824	2,137	
		Japan	t	2	9	2	1		
		Outside Japan			1,563	1,822	2,136		
Bio-processing and chemical processing	Global total					978	421		
	Japan	t				135	102		
	Outside Japan					843	319		

1. Five group companies: Otsuka Pharmaceutical, Otsuka Pharmaceutical Factory, Taiho Pharmaceutical, Otsuka Chemical, and Otsuka Foods 2. Since 2019, the scope of disclosure has expanded from Japan to Global.
 3. Hazardous waste by Japanese regulations; in other countries, the classification is based on the respective national standards. 4. Composting and conversion to feed in FY 2019 include other wastewater treatment.

Reporting of Violations of Environmental Laws and Regulations

In FY 2021, we did not have any serious accidents, violations, or environmental fines related to water quality or hazardous chemical substances.