

Environmental Performance Data (Non-Consolidated, Group Companies)

(As of March 31, 2018)

Input

			Units	Fiscal 2015 (Non-consolidated)	Fiscal 2016 (Non-consolidated)	Fiscal 2017 (Non-consolidated)	Fiscal 2017 (Group companies)
Raw material use	Total		1,000 t	18,353	18,282	18,932	18,990
	Breakdown	Waste	1,000 t	2,543	2,457	2,490	210
		By-products	1,000 t	812	984	1,093	250
		Natural Resources	1,000 t	14,922	14,757	15,258	17,854
		Fabricated goods, components	1,000 t	75	83	91	676
Recycled materials utilization rate		%	18.3	18.8	18.9	2.4	
Energy consumption	Total		TJ	41,399	41,338	42,921	40,555
	Breakdown	Electric power	GWh	963	1,002	1,024	2,138
		Fuel (Crude oil equivalent)	1,000 KL	829	817	853	635
Water use	Total		1,000m ³ /year	455,964	417,765	430,139	229,482
	Freshwater input		1,000m ³	12,726	12,870	14,771	45,919
	Breakdown	Clean water	1,000m ³	1,409	1,458	1,497	1,548
		Industrial-use water	1,000m ³	4,159	4,156	4,244	34,296
		Ground water	1,000m ³	2,171	2,273	2,883	7,267
		Fresh water	1,000m ³	4,987	4,984	6,147	2,808
	Seawater input		1,000m ³	443,237	404,895	415,368	183,563

Output

			Units	Fiscal 2015 (Non-consolidated)	Fiscal 2016 (Non-consolidated)	Fiscal 2017 (Non-consolidated)	Fiscal 2017 (Group companies)	
Greenhouse gas emissions	Total volume (CO ₂ equivalent)		1,000 t	7,822	7,795	8,098	3,706	
	Breakdown	Energy origin	1,000 t	3,429	3,393	3,517	2,483	
		Process derived	1,000 t	4,014	3,983	4,143	886	
		Waste derived	1,000 t	355	396	418	297	
		Others	1,000 t	24	22	20	40	
Drainage displacement	Total volume		1,000m ³ /year	452,158	413,977	426,107	227,440	
	Displacement (excluding displacement in marine waters)		1,000m ³	6,849	7,087	7,798	33,436	
	Breakdown	Into rivers and lakes	1,000m ³	6,628	6,843	7,577	31,719	
		To drainage	1,000m ³	154	187	167	1,508	
		To others	1,000m ³	67	57	54	209	
Into marine waters		1,000m ³	445,308	406,890	418,309	194,004		
Release into the atmosphere	SOx		t	925	708	1,046	1,528	
	NOx		t	11,257	10,859	11,771	3,431	
	Soot and dust		t	221	220	219	1,018	
Discharge into local water system	BOD		t	28	16	47	66	
	COD		t	22	24	29	221	
	N (nitrogen)		t	165	178	112	142	
	P (phosphorus)		t	0	0	0	7	
Industrial waste	Total		t	11,848	12,368	12,577	99,715	
	Breakdown	Hazardous	For Recycle	t			1,383	2,515
			For final disposal	t			343	2,738
	Non-Hazardous	For Recycle	t	6,478	7,507	6,073	82,763	
For final disposal		t	5,370	4,861	4,778	11,699		
Release of chemical substances	Amount of release	Into the atmosphere	t	22	27	18	387	
		Into public waters	t	20	29	41	22	
		Into soil	t	0	0	0	0	
		Reclaimed	t	0	0	0	162	
	Amount of transfer	To drainage	t	0	0	0	0	
		To waste	t	150	150	47	170	

Environmental Conservation Cost

			Units	Fiscal 2015 (Non-consolidated)	Fiscal 2016 (Non-consolidated)	Fiscal 2017 (Non-consolidated)	Fiscal 2017 (Group companies)	
Investment amount	Within the business area		million yen	4,542	3,078	3,531	1,844	
	Pollution prevention	Global environmental conservation	million yen	1,764	1,373	1,139	1,445	
		Resource circulation	million yen	2,609	1,065	1,455	234	
		Upstream/downstream	million yen	169	640	937	165	
		Administration	million yen	0	0	0	0	
	R&D	million yen	20	108	63	124		
	Social activity	million yen	65	214	27	8		
	Environmental remediation	million yen	0	0	0	0		
	Cost amount	Within the business area		million yen	5,095	4,100	4,433	14,646
		Pollution prevention	Global environmental conservation	million yen	1,521	1,555	2,802	7,912
			Resource circulation	million yen	1,283	1,105	187	1,637
Upstream/downstream			million yen	2,291	1,440	1,444	5,097	
Administration			million yen	0	0	0	1	
R&D		million yen	1,202	311	333	1,716		
Social activity		million yen	171	91	12	62		
Environmental remediation		million yen	9	10	14	6		
		million yen	164	260	151	44		

(1) Of the reported values for fiscal 2017, those for energy consumption and greenhouse gas emissions are for major consolidated subsidiaries (129 companies) and other environmental data is for 76 companies.

(2) Values for "Industrial waste" are those reported in accordance with the Waste Disposal and Public Cleansing Law. Values for the "Release of chemical substance" are those reported in accordance with the PRTR system.

(3) Some of the data for past fiscal years were reviewed and corrected because there was an inconsistency in data aggregation.

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