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ESG Data

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Environment

Zeon Corporation only

		FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Toxic substances	Butadiene consumption (tons)	355,326	298,397	308,069	289,912	284,390
	Butadiene emissions (tons)	2.7	3.6	3.1	3.4	3.0
	Acrylonitrile consumption (tons)	27,729	24,483	29,840	29,205	28,775
	Acrylonitrile emissions (tons)	5.5	4.1	4.0	4.0	3.0
Substances subject to the PRTR Act	Consumption (tons)	942,613	800,074	885,176	878,072	827,134
	Emissions (tons)	30.1	27.4	25.2	23.7	23.3
Industrial waste	Amount generated before compacting (tons)	145,482	135,996	125,018	143,129	130,153
	Amount generated after compacting (tons)	14,020	15,074	14,574	15,932	15,115
	Amount sent to landfills (tons)	3.5	1.7	1.9	0.0	3.2
Atmospheric emissions	CO ₂ emissions (tons)	552,940	480,631	576,817	545,024	499,222
	SO _x emissions (tons)	624	605	796	689	774
	NO _x emissions (tons)	253	274	324	298	270
	Soot emissions (tons)	11	5	8	4	7.2
Water resources	Total water resource consumption (1,000 m ³)	18,454	18,593	18,266	18,098	17,741
Wastewater	Total wastewater discharge (1,000 m ³)	15,940	15,919	15,928	15,399	15,107
	COD emissions (tons)	119	119	137	124	141
	Total phosphorus discharge (tons)	2	2	2	2	2.3
	Total nitrogen discharge (tons)	142	124	153	160	157
Energy	Total consumption (crude oil equivalent, kL)	214,921	193,757	228,378	211,128	226,122
	Per-unit energy consumption (kL/t-PDR)	0.14	0.13	0.13	0.12	0.14
	Energy efficiency indicator (FY 1990=100)	65%	60%	64%	59%	68%
Production equivalent	(tons)	1,572,613	1,547,789	1,671,352	1,723,677	1,602,286
Per-unit CO ₂ emissions indicator	(FY 1990=100)	66%	58%	64%	59%	58%

Zeon Group companies in Japan

("0" indicates less than 0.5, and "0.0" indicates less than 0.05)

		FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Substances subject to the PRTR Act	No. of substances (total)	59	61	63	63	68
	Consumption (tons)	1,710	1,712	4,669	3,976	2,826
	Emissions (tons)	2.4	2.4	4.1	3.5	3.6
Industrial waste	Amount generated before compacting (tons)	2,358	3,237	4,896	2,746	2,323
	Amount sent to landfills (tons)	5.9	2.9	0.2	1.3	2.8
CO ₂ emissions (tons)		48,474	46,195	56,021	52,343	50,318
Energy consumption (crude oil equivalent, kL)		19,696	19,345	22,771	22,949	23,884
Electricity consumption (1,000 kWh)		72,785	71,557	81,582	82,861	86,853
Water resources (1,000 m ³)		163	284	319	328	327

Zeon Group companies outside Japan

("0" indicates less than 0.5, and "0.0" indicates less than 0.05)

		FY 2015	FY 2016	FY 2017	FY 2018	FY 2019
Substances subject to the PRTR Act	No. of substances (total)	10	10	10	10	11
	Consumption (tons)	19,674	18,123	24,531	23,905	20,300
	Emissions (tons)	82.0	66.7	82.8	83.0	86
Industrial waste	Amount generated before compacting (tons)	3,705	3,617	3,608	3,495	3,234
	Amount sent to landfills (tons)	2,429.0	2,364.7	2,388.1	2,438.0	2,315
CO ₂ emissions (tons)		121,819	128,317	142,838	139,984	137,458
Energy consumption (crude oil equivalent, kL)		47,310	50,374	56,741	55,181	54,583
Water resources (1,000 m ³)		1,780	1,811	1,951	1,986	1,977

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Status of Certifications for International Environmental Standards

Site	ISO14001
Takaoka Plant	○
Kawasaki Plant	○
Tokuyama Plant	○
Mizushima Plant	○
Tohpe Corporation Head Office/ Ibaraki Office	○
Tohpe Corporation Mie office	○
Zeon Kasei Co., Ltd. (Head Office divisions including research laboratories)	○
Zeon Polymix Inc.	○
RIMTEC Corporation	○
Optes Inc. Hokuriku Plant	○
Zeon Opto Bio Lab Co., Ltd.	○
Tokyo Zairyo Co., Ltd.	○
Zeon Chemicals Yonezawa Co., Ltd.	○
Zeon North Co., Ltd.	○

Social

Status of Certifications for International Quality Standards

Site	ISO9001	ISO13485
Japan		
Zeon Kasei Co., Ltd.	○	
Zeon Polymix Inc.	○	
Zeon Medical Inc.		○
Zeon North Co., Ltd.	○	
Tokyo Zairyo Co., Ltd.	○	
RIMTEC Corporation	○	
Zeon Chemicals Yonezawa Co., Ltd.	○	
Optes Inc.	○	
Tohpe Corporation	○	
Outside Japan		
Zeon Chemicals L.P. (ZCLP)	○	
Zeon Chemicals Europe Ltd. (ZCEL)	○	
Zeon Chemicals (Thailand) Co., Ltd. (ZCT)	○	
Zeon Advanced Polymix Co., Ltd. (ZAP)	○	
Zeon Chemicals Singapore Pte. Ltd. (ZCS)	○	

Safety

Rate of conducting plant safety evaluations (%)	100
No. of RC audits conducted (times/year)	4
No. of safety incidents	6
No. of lost worktime accidents	0
No. of serious accidents without lost work time	0
Lost work time accident rate	0.00
No. of accidents in logistics	0

Basic Information on Zeon Corporation Employees (non-consolidated; does not include non-permanent employees)

		Men	Women	Total
No. of employees		1,392	208	1,600
No. of new hires	New graduates*1	34	7	41
	Mid-year*2	22	3	25
Average years of employment (yrs.)		16.4	12.3	15.9
No. of non-Japanese employees				26

As of March 31, 2020 (excluding those who resigned as of the end of March)

*1 Employees that joined the company in April 2020

*2 Employees that joined the company between April 2019 and March 2020

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Results of Initiatives

Percentage of employees taking childcare leave (%)	100
Percentage of employees with disabilities (%)	2.01
No. of employees rehired after reaching the age of mandatory retirement	134
Percentage of employees rehired after reaching the age of mandatory retirement (%)	100

Basic Information on Zeon Corporation Employees

No. of employees	3,462
No. of new graduate hires	41

As of March 31, 2020 (excluding those who resigned as of the end of March)

Social Contributions

No. of employees who participated in volunteer tours to reconstruct areas affected by the destructive earthquake	65
Recipients of the Furukawa Scholarship (number, cumulative)	3,236

Governance

Management Organization

No. of members of the Board of Directors	7
Of which, are outside directors	3
Of which, are women directors	0
No. of members of the Board of Corporate Auditors	5
Of which, are outside auditors	3

Risk Management

No. of reports received via the Internal Reporting System	16
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*Cumulative total of FY 2010–FY 2019

Internal Audits

No. of departments/companies audited	36
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*Zeon Corporation: 15 departments, 9 Zeon Group companies and 12 Sites in Japan, 9 Zeon Group companies outside Japan

For more detailed information, see the Corporate Governance Report

Corporate Governance Report (Japanese Only)

<http://www.zeon.co.jp/content/200324423.pdf>