## Zeon Group Home > CSR > Environment > Environmental Data

Zeon Corporation		FY2010	FY2011	FY2012	FY2013	FY2014
	Butadiene consumption (tons)	388,507	346,224	334,270	337,787	334,962
Toxic substances	Butadiene emissions (tons)	5.5	4.0	3.9	3.3	3.7
TOXIC Substances	Acrylonitrile consumption (tons)	28,950	24,367	24,472	27,118	25,784
	Acrylonitrile emissions (tons)	15.2	13.0	13.6	11.7	11.9
Substances subject	Consumption (tons)	922,429	877,919	868,407	887,078	921,688
to PRTR law	Amount emitted (tons)	36.7	37.0	37.8	33.5	35.6
	Amount generated (before volume reduction) (tons)	129,151	131,566	129,156	139,141	156,502
Industrial waste	Amount generated (after volume reduction) (tons)	15,116	15,608	14,001	14,535	16,530
	Amount sent to landfill (tons)	183	4.1	10.9	1.3	6.5
	CO <sub>2</sub> emissions (tons)	581,038	564,545	498,451	517,803	506,348
Atmospheric	SO <sub>X</sub> emissions (tons)	495	513	334	476	509
emissions	NO <sub>X</sub> emissions (tons)	459	375	336	272	239
	Soot and dust emissions (tons)	13.3	9.0	6.5	4.3	2.8
	Water resources consumption (1,000 m <sup>3</sup> )	16,595	18,819	18,591	18,508	18,703
Water resources	Waterworks (1,000 m <sup>3</sup> )	235	253	265	245	273
Water resources	Ground water (1,000 m <sup>3</sup> )	0.0	0.0	0.0	0.0	0.0
	Industrial water (1,000 m <sup>3</sup> )	16,360	18,597	18,326	18,264	18,431
	Total waste water discharge (1,000 m <sup>3</sup> )	14,210	15,715	17,029	17,761	15,894
Waste water	COD emissions (tons)	140	136	127	129	119
Waste water	Total phosphorus discharge (tons)	1.6	2.1	2.1	2.4	1.6
	Total nitrogen discharge (tons)	153	149	176	158	167
	Total consumption (crude oil equivalent, kL)	211,338	207,735	189,216	193,417	191,315
Energy	Unit consumption (kL/t-PDR)	0.1383	0.1510	0.1418	0.1357	0.1314
	Unit consumption index (1990 = 100)	66%	72%	68%	65%	63%
Production of PDR e	quivalent (tons)	1,527,934	1,375,870	1,334,471	1,425,480	1,455,512
CO <sub>2</sub> emissions Unit	consumption index (1990 = 100)	71%	77%	70%	68%	65%

## Zeon Corporation each worksites (0.0 = less than 0.05)

Takaoka Plant	Takaoka Plant		FY2011	FY2012	FY2013	FY2014
Substances subject	Consumption (tons)	210	223	125	16	21
to PRTR law	Amount emitted (tons)	0.2	0.2	0.1	0.0	0.0
	Amount generated (before volume reduction) (tons)	3,458	4,730	4,882	12,494	8,794
Industrial waste	Amount generated (after volume reduction) (tons)	671	529	535	1,056	437
	Amount sent to landfill (tons)	174	0.0	3.4	0.0	0.0
Atmospheric	CO <sub>2</sub> emissions (tons)	24,208	20,132	23,329	22,546	20,825
	SO <sub>X</sub> emissions (tons)	7.0	6.8	9.5	3.2	0.0
emissions	NO <sub>X</sub> emissions (tons)	14	15	19	13	0.2
	Soot and dust emissions (tons)	0.4	0.7	0.0	0.0	0.0
	Water resources consumption (1,000 m <sup>3</sup> )	3,732	3,808	4,052	3,732	3,848
Water resources	Waterworks (1,000 m <sup>3</sup> )	52	57	58	56	57
water resources	Ground water (1,000 m <sup>3</sup> )	0.0	0.0	0.0	0.0	0.0
	Industrial water (1,000 m <sup>3</sup> )	3,680	3,750	3,993	3,676	3,791
	Total waste water discharge (1,000 m <sup>3</sup> )	3,050	3,398	4,408	4,890	3,322
Waste water	COD emissions (tons)	9.2	13.0	14.3	18.9	12.7
waste water	Total phosphorus discharge (tons)	0.2	0.7	0.5	0.8	0.3
	Total nitrogen discharge (tons)	10	16	19	20	14
F	Total consumption (crude oil equivalent, kL)	9,750	8,994	8,868	8,986	8,290
Energy	Unit consumption index (1990 = 100)	94%	96%	103%	104%	92%
Production of PDR e	equivalent (tons)	5,419	4,866	4,295	4,433	4,617

Kawasaki Plant		FY2010	FY2011	FY2012	FY2013	FY2014
	Butadiene consumption (tons)	26,613	23,054	22,841	20,372	23,534
Toxic substances	Butadiene emissions (tons)	4.8	2.6	2.7	2.4	2.6
TOXIC Substances	Acrylonitrile consumption (tons)	12,034	10,670	10,872	9,653	11,405
	Acrylonitrile emissions (tons)	15	12	13	11	11
Substances subject	Consumption (tons)	51,781	46,186	44,709	40,203	45,847
to PRTR law	Amount emitted (tons)	30	26	25.6	26.1	26.8
	Amount generated (before volume reduction) (tons)	44,132	47,718	50,878	48,039	52,900
Industrial waste	Amount generated (after volume reduction) (tons)	5,315	5,383	5,037	4,024	4,401
	Amount sent to landfill (tons)	0.4	0.4	0.9	0.0	0.0
	CO <sub>2</sub> emissions (tons)	36,478	27,609	27,968	20,917	25,778
Atmospheric	SO <sub>X</sub> emissions (tons)	0.7	0.1	0.1	0.2	0.1
emissions	NO <sub>X</sub> emissions (tons)	10	7.6	8.0	7.4	5.7
	Soot and dust emissions (tons)	0.8	0.6	0.8	0.8	0.6
	Water resources consumption (1,000 m <sup>3</sup> )	2,575	2,963	3,313	3,092	3,657
Water resources	Waterworks (1,000 m <sup>3</sup> )	31	32	35	39	40
Water resources	Ground water (1,000 m <sup>3</sup> )	0.0	0.0	0.0	0.0	0.0
	Industrial water (1,000 m <sup>3</sup> )	2,544	2,963	3,278	3,053	3,617
	Total waste water discharge (1,000 m <sup>3</sup> )	1,836	1,793	1,904	2,031	2,185
Waste water	COD emissions (tons)	41	40	42	45	44
wasie waier	Total phosphorus discharge (tons)	0.1	0.2	0.2	0.3	0.2
	Total nitrogen discharge (tons)	93	89	115	93	115
Enorgy	Total consumption (crude oil equivalent, kL)	16,239	16,220	16,552	14,406	14,700
Energy	Unit consumption index (1990 = 100)	78%	90%	91%	75%	84%
Production of PDR 6	equivalent (tons)	94,340	81,790	82,757	73,834	85,441

Tokuyama Plant		FY2010	FY2011	FY2012	FY2013	FY2014
	Butadiene consumption (tons)	217,074	186,784	181,275	206,710	170,327
Toxic substances	Butadiene emissions (tons)	0.7	1.4	1.2	0.8	1.1
TOXIC SUBStances	Acrylonitrile consumption (tons)	16,916	13,697	13,600	17,464	14,379
	Acrylonitrile emissions (tons)	0.6	0.6	0.6	0.6	0.7
Substances subject to PRTR law	Consumption (tons)	464,767	388,603	391,766	453,075	397,637
	Amount emitted (tons)	2.2	3.1	2.7	2.0	2.7
	Amount generated (before volume reduction) (tons)	21,516	18,718	16,939	19,201	24,063
Industrial waste	Amount generated (after volume reduction) (tons)	3,756	3,762	3,505	3,377	4,674
	Amount sent to landfill (tons)	0.0	0.0	0.0	0.0	0.0
	CO <sub>2</sub> emissions (tons)	294,112	248,294	239,609	279,750	237,362
Atmospheric	SO <sub>X</sub> emissions (tons)	483	502	322	471	507
emissions	NO <sub>X</sub> emissions (tons)	358	272	243	205	179
	Soot and dust emissions (tons)	12.1	7.7	5.7	3.5	2.2
	Water resources consumption (1,000 m <sup>3</sup> )	7,824	9,482	8,788	8,927	8,393
Water resources	Waterworks (1,000 m <sup>3</sup> )	58	63	63	45	50
water resources	Ground water (1,000 m <sup>3</sup> )	0.0	0.0	0.0	0.0	0.0
	Industrial water (1,000 m <sup>3</sup> )	7,766	9,419	8,725	8,882	8,344
	Total waste water discharge (1,000 m <sup>3</sup> )	6,942	7,884	8,288	8,165	7,785
Waste water	COD emissions (tons)	77	69	58	49	42
waste water	Total phosphorus discharge (tons)	0.7	0.6	0.6	0.7	0.6
	Total nitrogen discharge (tons)	33	27	27	28	27
Enorgy	Total consumption (crude oil equivalent, kL)	107,497	90,955	90,648	103,000	92,423
Energy	Unit consumption index (1990 = 100)	98%	99%	102%	99%	106%
Production of PDR 6	equivalent (tons)	599,400	498,167	487,782	573,961	477,797

Mizushima Plant		FY2010	FY2011	FY2012	FY2013	FY2014
Toxic substances	Butadiene consumption (tons)	144,820	136,385	130,154	110,704	141,100
TOXIC Substances	Butadiene emissions (tons)	0.0	0.0	0.0	0.0	0.0
Substances subject	Consumption (tons)	405,671	442,900	431,800	393,777	478,178
to PRTR law	Amount emitted (tons)	4.4	4.4	4.6	5.3	6.0
	Amount generated (before volume reduction) (tons)	60,045	60,400	56,270	59,253	70,584
Industrial waste	Amount generated (after volume reduction) (tons)	5,374	5,935	4,830	5,999	6,956
	Amount sent to landfill (tons)	6.8	3.7	5.4	1.3	6.5
	CO <sub>2</sub> emissions (tons)	217,000	259,651	197,855	182,800	211,420
Atmospheric	SO <sub>X</sub> emissions (tons)	4.6	3.8	2.7	1.2	1.4
emissions	NO <sub>X</sub> emissions (tons)	77	80	66	47	54
	Soot and dust emissions (tons)	0.0	0.0	0.0	0.0	0.0
	Water resources consumption (1,000 m <sup>3</sup> )	2,378	2,481	2,351	2,665	2,713
10/-1	Waterworks (1,000 m <sup>3</sup> )	51	57	64	66	88
Water resources	Ground water (1,000 m <sup>3</sup> )	0.0	0.0	0.0	0.0	0.0
	Industrial water (1,000 m <sup>3</sup> )	2,327	2,424	2,287	2,599	2,625
	Total waste water discharge (1,000 m³)	2,382	2,640	2,429	2,674	2,602
10.	COD emissions (tons)	13	15	13	17	20
Waste water	Total phosphorus discharge (tons)	0.6	0.6	0.7	0.6	0.5
	Total nitrogen discharge (tons)	17	16	15	17	1:
_	Total consumption (crude oil equivalent, kL)	77,852	91,566	73,148	67,850	77,51
Energy	Unit consumption index (1990 = 100)	44%	56%	46%	41%	409
Production of PDR e	quivalent (tons)	760,900	731,500	705,400	714,800	840,400
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R&D Center		FY2010	FY2011	FY2012	FY2013	FY2014
	Butadiene consumption (tons)	_	0.71	0.44	1.09	0.80
	Butadiene emissions (tons)	0.06	0.03	0.01	0.05	0.03
Toxic substances	Acrylonitrile consumption (tons)	_	0.29	0.14	0.39	0.24
	Acrylonitrile emissions (tons)	0.0	0.0	0.0	0.0	0.0
Substances subject	Consumption (tons)	_	7.7	7.0	7.3	5.4
to PRTR law	Amount emitted (tons)	_	3.4	4.8	0.1	0.
	Amount generated (before volume reduction) (tons)	_	_	187	154	160
Industrial waste	Amount generated (after volume reduction) (tons)	_	_	94	79	62
	Amount sent to landfill (tons)	1.5	0.0	1.3	0.0	0.0
Atmospheric	CO <sub>2</sub> emissions (tons)	9,240	8,859	9,690	11,790	10,96
emissions	Soot and dust emissions (tons)		0.06	_		-
	Water resources consumption (1,000 m <sup>3</sup> )	86	85	88	93	92
	Waterworks (1,000 m <sup>3</sup> )	43	44	45	38	37
Water resources	Ground water (1,000 m <sup>3</sup> )	0.0	0.0	0.0	0.0	0.0
	Industrial water (1,000 m <sup>3</sup> )	43	41	43	54	5:
	Total consumption (crude oil equivalent, kL)	4,878	4,806	5,255	6,091	5,682
Energy		7,070	7,000	0,200	0,001	0,00
Energy	Total consumption (crude on equivalent, ke)					
	Total consumption (crode on equivalent, ke)	FY2010	FY2011	FY2012	FY2013	FY2014
Energy Head Office Atmospheric		FY2010	FY2011	FY2012	FY2013	FY2014
	CO <sub>2</sub> emissions (tons)	FY2010 423	FY2011 333	FY2012 336	FY2013 338	FY2014

1.56

222

1.40

215

1.37

260

1.44

205

1.31

182

Water resources (Waterworks) consumption (1,000 m<sup>3</sup>)

Energy

Total consumption (crude oil equivalent, kL)

Zeon Group (Japan) (0 = less than 0.5, 0.0 = less than 0.05)

Zeon Group (Japan)						
Zeon Group (Japan)		FY2010	FY2011	FY2012	FY2013	FY2014
Substances	Number of substances	62	62	62	65	85
covered by PRTR	Consumption (tons)	1,486	2,125	1,961	1,801	9,944
law	Amount emitted (tons)	2.6	2.7	2.1	2.1	62.6
Industrial waste	Amount generated (before volume reduction) (tons)	1,783	1,914	1,996	2,608	8,774
	Amount sent to landfill (tons)	130	42.1	26.7	11.2	124.7
	dustrial water + Ground water + Waterworks)	_	151	143	143	167
CO <sub>2</sub> emissions (tons	,	23,134	18,046	19,382	37,937	59,592
<b>Energy consumption</b>	n (crude oil equivalent, kL)	16,454	15,132	15,630	17,926	25,410
Electric energy cons	sumption (1000 kWh)	1	-	_	63,773	67,294
Zeon Kasei Co., Ltd	. Ibaraki Factory	FY2010	FY2011	FY2012	FY2013	FY2014
Substances	Number of substances	7	7	8	7	6
covered by PRTR	Consumption (tons)	95	61	40	35	49
law	Amount emitted (tons)	0.0	0.0	0.0	0.0	0.0
	Amount generated (before volume reduction) (tons)	648	529	446	478	389
Industrial waste	Amount sent to landfill (tons)	69	0.0	0.0	0.0	0.0
Water resources (In	dustrial water + Ground water + Waterworks)	34	41	30	29	19
CO <sub>2</sub> emissions (tons		4,257	3,845	3,283	3,723	3,468
	r (crude oil equivalent, kL)	2,328	2,191	1,807	1,875	1,545
	sumption (1000 kWh)	2,320	2,191	1,007	5,032	3,869
Licenie energy cons					5,032	3,009
Zoon Koosi Ca. 144	Vamagushi Fastan	EV2040	EV2044	EV0040	EV2042	EV204.4
Substances	. Yamaguchi Factory	FY2010	FY2011	FY2012	FY2013	FY2014
	Number of substances	3	3	3	3	3
covered by PRTR	Consumption (tons)	0.0	0.0	0.0	0.0	0.0
law	Amount emitted (tons)	0.0	0.0	0.0	0.0	0.0
Industrial waste	Amount generated (before volume reduction) (tons)	99	91	57	91	151
	Amount sent to landfill (tons)	0.0	0.0	0.0	0.0	0.0
	dustrial water + Ground water + Waterworks)	0.2	0.2	0.2	0.3	0.0
CO <sub>2</sub> emissions (tons	,	231	412	416	410	460
- C	(crude oil equivalent, kL)	94	147	151	155	166
Electric energy cons	sumption (1000 kWh)	_	_	_	459	591
Zeon Polymix Inc. O		FY2010	FY2011	FY2012	FY2013	FY2014
Substances	Number of substances	5	5	5	5	5
	Number of substances Consumption (tons)	5 148	5 165	5 146	5 122	5 113
Substances	Number of substances Consumption (tons) Amount emitted (tons)	5 148 0.0	5 165 0.0	5 146 0.0	5 122 0.0	5 113 0.0
Substances covered by PRTR law	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons)	5 148 0.0 195	5 165 0.0 171	5 146 0.0 155	5 122 0.0 148	5 113 0.0 160
Substances covered by PRTR law Industrial waste	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons)	5 148 0.0	5 165 0.0 171 4.0	5 146 0.0 155 0.0	5 122 0.0 148 0.0	5 113 0.0
Substances covered by PRTR law Industrial waste Water resources (In	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks)	5 148 0.0 195	5 165 0.0 171	5 146 0.0 155	5 122 0.0 148 0.0 49	5 113 0.0 160
Substances covered by PRTR law Industrial waste Water resources (IncO <sub>2</sub> emissions (tons	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks)	5 148 0.0 195	5 165 0.0 171 4.0	5 146 0.0 155 0.0	5 122 0.0 148 0.0	5 113 0.0 160 0.0 48 2,860
Substances covered by PRTR law Industrial waste Water resources (IncO <sub>2</sub> emissions (tons	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks)	5 148 0.0 195 25	5 165 0.0 171 4.0 45	5 146 0.0 155 0.0 50	5 122 0.0 148 0.0 49	5 113 0.0 160 0.0 48
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks)	5 148 0.0 195 25 — 2,230	5 165 0.0 171 4.0 45 1,938	5 146 0.0 155 0.0 50 2,631	5 122 0.0 148 0.0 49 2,740	5 113 0.0 160 0.0 48 2,860
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks) of (crude oil equivalent, kL)	5 148 0.0 195 25 — 2,230	5 165 0.0 171 4.0 45 1,938	5 146 0.0 155 0.0 50 2,631	5 122 0.0 148 0.0 49 2,740 1,416	5 113 0.0 160 0.0 48 2,860 1,388
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks) s) (crude oil equivalent, kL) sumption (1000 kWh)	5 148 0.0 195 25 — 2,230	5 165 0.0 171 4.0 45 1,938	5 146 0.0 155 0.0 50 2,631	5 122 0.0 148 0.0 49 2,740 1,416	5 113 0.0 160 0.0 48 2,860 1,388
Substances covered by PRTR law Industrial waste Water resources (Inc CO <sub>2</sub> emissions (tons Energy consumption Electric energy cons	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks) s) (crude oil equivalent, kL) sumption (1000 kWh)	5 148 0.0 195 25 — 2,230 1,697	5 165 0.0 171 4.0 45 1,938 1,573	5 146 0.0 155 0.0 50 2,631 1,534	5 122 0.0 148 0.0 49 2,740 1,416 5,260	5 113 0.0 160 0.0 48 2,860 1,388 5,321
Substances covered by PRTR law Industrial waste Water resources (In CO <sub>2</sub> emissions (tons Energy consumptior Electric energy cons Zeon Polymix Inc. K Substances	Number of substances  Consumption (tons)  Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)  dustrial water + Ground water + Waterworks)  (crude oil equivalent, kL)  sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010  Number of substances	5 148 0.0 195 25 - 2,230 1,697 - FY2010	5 165 0.0 171 4.0 45 1,938 1,573	5 146 0.0 155 0.0 50 2,631 1,534	5 122 0.0 148 0.0 49 2,740 1,416 5,260	5 113 0.0 160 0.0 48 2,860 1,388 5,321
Substances covered by PRTR law Industrial waste Water resources (In: CO <sub>2</sub> emissions (tons Energy consumptior Electric energy cons Zeon Polymix Inc. K Substances covered by PRTR	Number of substances  Consumption (tons)  Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)  dustrial water + Ground water + Waterworks)  (crude oil equivalent, kL)  sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010  Number of substances  Consumption (tons)	5 148 0.0 195 25 - 2,230 1,697 -	5 165 0.0 171 4.0 45 1,938 1,573	5 146 0.0 155 0.0 50 2,631 1,534	5 122 0.0 148 0.0 49 2,740 1,416 5,260	5 113 0.0 160 0.0 48 2,860 1,388 5,321
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption Electric energy consumption Substances covered by PRTR law	Number of substances  Consumption (tons)  Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)  dustrial water + Ground water + Waterworks)  (crude oil equivalent, kL)  sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010  Number of substances  Consumption (tons)  Amount emitted (tons)	5 148 0.0 195 25 - 2,230 1,697 - FY2010 3 9.8 0.0	5 165 0.0 171 4.0 45 1,938 1,573	5 146 0.0 155 0.0 50 2,631 1,534	5 122 0.0 148 0.0 49 2,740 1,416 5,260	5 113 0.0 160 0.0 48 2,860 1,388 5,321
Substances covered by PRTR law Industrial waste Water resources (In: CO <sub>2</sub> emissions (tons Energy consumptior Electric energy cons Zeon Polymix Inc. K Substances covered by PRTR	Number of substances  Consumption (tons)  Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)  dustrial water + Ground water + Waterworks)  (crude oil equivalent, kL)  sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010  Number of substances  Consumption (tons)  Amount emitted (tons)  Amount generated (before volume reduction) (tons)	5 148 0.0 195 25  2,230 1,697  FY2010 3 9.8 0.0 46	5 165 0.0 171 4.0 45 1,938 1,573	5 146 0.0 155 0.0 50 2,631 1,534	5 122 0.0 148 0.0 49 2,740 1,416 5,260	5 113 0.0 160 0.0 48 2,860 1,388 5,321
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption Electric	Number of substances  Consumption (tons)  Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)  dustrial water + Ground water + Waterworks)  (crude oil equivalent, kL)  sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010  Number of substances  Consumption (tons)  Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)	5 148 0.0 195 25  2,230 1,697  FY2010 3 9.8 0.0 46 12	5 165 0.0 171 4.0 45 1,938 1,573	5 146 0.0 155 0.0 50 2,631 1,534	5 122 0.0 148 0.0 49 2,740 1,416 5,260	5 113 0.0 160 0.0 48 2,860 1,388 5,321
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons) Energy consumption Electric energy cons Zeon Polymix Inc. K Substances covered by PRTR law Industrial waste CO2 emissions (tons)	Number of substances  Consumption (tons)  Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)  dustrial water + Ground water + Waterworks)  (crude oil equivalent, kL)  sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010  Number of substances  Consumption (tons)  Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)	5 148 0.0 195 25  2,230 1,697  FY2010 3 9.8 0.0 46 12 103	5 165 0.0 171 4.0 45 1,938 1,573	5 146 0.0 155 0.0 50 2,631 1,534	5 122 0.0 148 0.0 49 2,740 1,416 5,260	5 113 0.0 160 0.0 48 2,860 1,388 5,321
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption Electric energy electric energy electric electr	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks) s) of (crude oil equivalent, kL) sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010 Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) of (crude oil equivalent, kL)	5 148 0.0 195 25  2,230 1,697  FY2010 3 9.8 0.0 46 12	5 165 0.0 171 4.0 45 1,938 1,573	5 146 0.0 155 0.0 50 2,631 1,534	5 122 0.0 148 0.0 49 2,740 1,416 5,260	5 113 0.0 160 0.0 48 2,860 1,388 5,321
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption Electric energy electric energy electric electr	Number of substances  Consumption (tons)  Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)  dustrial water + Ground water + Waterworks)  (crude oil equivalent, kL)  sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010  Number of substances  Consumption (tons)  Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)	5 148 0.0 195 25  2,230 1,697  FY2010 3 9.8 0.0 46 12 103	5 165 0.0 171 4.0 45 1,938 1,573	5 146 0.0 155 0.0 50 2,631 1,534	5 122 0.0 148 0.0 49 2,740 1,416 5,260	5 113 0.0 160 0.0 48 2,860 1,388 5,321
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption Electric energy consumption Electric energy consumption to Electric energy consumption (substances covered by PRTR law Industrial waste CO2 emissions (tons Energy consumption Electric energy consumption Electric energy consumption consumption energy	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks) s) of (crude oil equivalent, kL) sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010 Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) of (crude oil equivalent, kL)	5 148 0.0 195 25 - 2,230 1,697 - FY2010 3 9.8 0.0 46 12 103 56	5 165 0.0 171 4.0 45 1,938 1,573 — FY2011 — — — —	5 146 0.0 155 0.0 50 2,631 1,534 — FY2012 — — — —	5 122 0.0 148 0.0 49 2,740 1,416 5,260 FY2013 ————————————————————————————————————	5 113 0.0 160 0.0 48 2,860 1,388 5,321 FY2014 ————————————————————————————————————
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption Electric energy	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks) s) n (crude oil equivalent, kL) sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010 Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) s) n (crude oil equivalent, kL) sumption (1000 kWh)	5 148 0.0 195 25 - 2,230 1,697 - FY2010 3 9.8 0.0 46 12 103 56 -	5 165 0.0 171 4.0 45 1,938 1,573 — FY2011 — — — — —	5 146 0.0 155 0.0 50 2,631 1,534 — FY2012 — — — — —	5 122 0.0 148 0.0 49 2,740 1,416 5,260 FY2013 ————————————————————————————————————	5 113 0.0 160 0.0 48 2,860 1,388 5,321
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption Electric energy consumption Substances covered by PRTR law Industrial waste CO2 emissions (tons Energy consumption Electric energy consumption Electric energy consumption Electric energy consumption Electric energy consumption Substances	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks) s) n (crude oil equivalent, kL) sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010 Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) s) n (crude oil equivalent, kL) sumption (1000 kWh)  Number of substances	5 148 0.0 195 25 - 2,230 1,697 - FY2010 3 9.8 0.0 46 12 103 56 -	5 165 0.0 171 4.0 45 1,938 1,573 — FY2011 — — — — — —	5 146 0.0 155 0.0 50 2,631 1,534 — FY2012 — — — — — — — —	5 122 0.0 148 0.0 49 2,740 1,416 5,260 FY2013 ————————————————————————————————————	5 113 0.0 160 0.0 48 2,860 1,388 5,321 FY2014       
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption Electric energy cons Zeon Polymix Inc. K Substances covered by PRTR law Industrial waste CO2 emissions (tons Energy consumption Electric energy ener	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks) s) (crude oil equivalent, kL) sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010 Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) s) (crude oil equivalent, kL) sumption (1000 kWh)  Number of substances Consumption (tons)	5 148 0.0 195 25  2,230 1,697  FY2010 3 9.8 0.0 46 12 103 56  FY2010	5 165 0.0 171 4.0 45 1,938 1,573 — FY2011 — — — — — — — — — —	5 146 0.0 155 0.0 50 2,631 1,534 — — — — — — — — — — — — — — — — — — —	5 122 0.0 148 0.0 49 2,740 1,416 5,260 FY2013 ————————————————————————————————————	5 113 0.0 160 0.0 48 2,860 1,388 5,321 FY2014 ————————————————————————————————————
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption Electric energy consumption Substances covered by PRTR law Industrial waste CO2 emissions (tons Energy consumption Electric energy consumption Electric energy consumption Electric energy consumption Electric energy consumption Substances	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks) s) (crude oil equivalent, kL) sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010 Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) s) (crude oil equivalent, kL) sumption (1000 kWh)  Number of substances Consumption (tons) Amount emitted (tons) Amount emitted (tons)	5 148 0.0 195 25  2,230 1,697  FY2010 3 9.8 0.0 46 12 103 56  FY2010 1 2.3 2.3	5 165 0.0 171 4.0 45 1,938 1,573 — FY2011 — — — — — — — — FY2011 1 2.2 2.2	5 146 0.0 155 0.0 50 2,631 1,534 ————————————————————————————————————	5 122 0.0 148 0.0 49 2,740 1,416 5,260 FY2013 	5 113 0.0 160 0.0 48 2,860 1,388 5,321 FY2014             
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption Electric energy cons Zeon Polymix Inc. K Substances covered by PRTR law Industrial waste CO2 emissions (tons Energy consumption Electric energy ener	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks)  (crude oil equivalent, kL) sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010 Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons)  (crude oil equivalent, kL) sumption (1000 kWh)  Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount generated (before volume reduction) (tons)	5 148 0.0 195 25  2,230 1,697  FY2010 3 9.8 0.0 46 12 103 56  FY2010 1 2.3 2.3	5 165 0.0 171 4.0 45 1,938 1,573 — FY2011 — — — — — — — — — — — — — — — — — —	5 146 0.0 155 0.0 50 2,631 1,534 ————————————————————————————————————	5 122 0.0 148 0.0 49 2,740 1,416 5,260 FY2013 	5 113 0.0 160 0.0 48 2,860 1,388 5,321 FY2014             
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumptior Electric energy consumptior Electric energy consumption of the covered by PRTR law Industrial waste CO2 emissions (tons Energy consumption Electric energy consumption Electric energy consumption Electric energy consumption of Electric energy consumption of Electric energy consumption of Electric energy consumption Electric energy energy energy energy energy energy energ	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks)  (crude oil equivalent, kL) sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010 Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons)  (crude oil equivalent, kL) sumption (1000 kWh)  Number of substances Consumption (tons) Amount emitted (tons) Amount emitted (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount generated (before volume reduction) (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons)	5 148 0.0 195 25  2,230 1,697  FY2010 3 9.8 0.0 46 12 103 56  FY2010 1 2.3 2.3	5 165 0.0 171 4.0 45 1,938 1,573 — FY2011 — — — — — — — — — — — — — — — — — —	5 146 0.0 155 0.0 50 2,631 1,534 ————————————————————————————————————	5 122 0.0 148 0.0 49 2,740 1,416 5,260 FY2013 	5 113 0.0 160 0.0 48 2,860 1,388 5,321 FY2014             
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumptior Electric energy cons Zeon Polymix Inc. K Substances covered by PRTR law Industrial waste CO2 emissions (tons Energy consumptior Electric energy consumptior energy	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks)  (crude oil equivalent, kL) sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010 Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons)  (crude oil equivalent, kL) sumption (1000 kWh)  Number of substances Consumption (tons) Amount emitted (tons) Amount emitted (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks)	5 148 0.0 195 25  2,230 1,697  FY2010 3 9.8 0.0 46 12 103 56  FY2010 1 2.3 2.3 8 7.6	5 165 0.0 171 4.0 45 1,938 1,573 — FY2011 — — — — — — — — — — — — — — — — — —	5 146 0.0 155 0.0 2,631 1,534 ————————————————————————————————————	5 122 0.0 148 0.0 49 2,740 1,416 5,260 FY2013 ————————————————————————————————————	5 113 0.0 160 0.0 48 2,860 1,388 5,321 FY2014 ————————————————————————————————————
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption Electric energy consumption Electric energy consumption Electric energy consumption Energy consumption Energy consumption Energy consumption Electric energy consumption Electri	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks) s) a (crude oil equivalent, kL) sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010 Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) s) a (crude oil equivalent, kL) sumption (1000 kWh)  Number of substances Consumption (tons) Amount emitted (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks)	5 148 0.0 195 25  2,230 1,697  FY2010 3 9.8 0.0 46 12 103 56  FY2010 1 2.3 2.3 8 7.6  970	5 165 0.0 171 4.0 45 1,938 1,573 — FY2011 — — — — — — — — — — — — — — — — — —	5 146 0.0 155 0.0 2,631 1,534 ————————————————————————————————————	5 122 0.0 148 0.0 49 2,740 1,416 5,260 FY2013 ————————————————————————————————————	5 113 0.0 160 0.0 48 2,860 1,388 5,321 FY2014             
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption Electric energy consumption Electric energy consumption to Energy consumption (tons Energy consumption Electric energy consumption (tons Energy consumption Electric energy consumption (tons Energy consumption (tons Energy consumption Energy consumption)	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks) s) (crude oil equivalent, kL) sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010 Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) s) (crude oil equivalent, kL) sumption (1000 kWh)  Number of substances Consumption (tons) Amount emitted (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks) s) (crude oil equivalent, kL)	5 148 0.0 195 25  2,230 1,697  FY2010 3 9.8 0.0 46 12 103 56  FY2010 1 2.3 2.3 8 7.6	5 165 0.0 171 4.0 45 1,938 1,573 — FY2011 — — — — — — — — — — — — — — — — — —	5 146 0.0 155 0.0 2,631 1,534 ————————————————————————————————————	5 122 0.0 148 0.0 49 2,740 1,416 5,260 FY2013 ————————————————————————————————————	5 113 0.0 160 0.0 48 2,860 1,388 5,321 FY2014             
Substances covered by PRTR law Industrial waste Water resources (IncO2 emissions (tons Energy consumption Electric energy consumption Electric energy consumption to Energy consumption (tons Energy consumption Electric energy consumption (tons Energy consumption Electric energy consumption (tons Energy consumption (tons Energy consumption Energy consumption)	Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks) s) a (crude oil equivalent, kL) sumption (1000 kWh)  awagoe Plant *Kawagoe Plant closed in FY2010 Number of substances Consumption (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) s) a (crude oil equivalent, kL) sumption (1000 kWh)  Number of substances Consumption (tons) Amount emitted (tons) Amount emitted (tons) Amount generated (before volume reduction) (tons) Amount generated (before volume reduction) (tons) Amount sent to landfill (tons) dustrial water + Ground water + Waterworks)	5 148 0.0 195 25  2,230 1,697  FY2010 3 9.8 0.0 46 12 103 56  FY2010 1 2.3 2.3 8 7.6  970	5 165 0.0 171 4.0 45 1,938 1,573 — FY2011 — — — — — — — — — — — — — — — — — —	5 146 0.0 155 0.0 2,631 1,534 ————————————————————————————————————	5 122 0.0 148 0.0 49 2,740 1,416 5,260 FY2013 ————————————————————————————————————	5 113 0.0 160 0.0 48 2,860 1,388 5,321 FY2014             

Consumption (tons)   0.0   0	Zeon North Co., Ltd.		FY2010	FY2011	FY2012	FY2013	FY2014
Industrial waste	Substances		0	0	0	0	0
Industrial waste	,		0.0	0.0	0.0	0.0	0.0
Mount sent to landfill (tons)	law						
Water resources (Industrial water + Ground water + Waterworks)	Industrial waste						
Co_emissions (tons)			8.0	5.0	5.2	3.1	
Energy consumption (crude oil equivalent, kL)			455	100	450	- 146	
RIMTEC Corporation		•					
RIMITEC Corporation			04	- 00	05	00	
Substances	Liectific energy consumption (1000 kwm)						304
Consumption (tons)	RIMTEC Corporation	٦	FY2010	FY2011	FY2012	FY2013	FY2014
Industrial waste		Number of substances	0	0	0	0	0
Industrial waste	covered by PRTR						0.0
	law						
Water resources (Industrial water + Ground water + Waterworks)	Industrial waste						
CO_emissions (tons)			3.6				
Energy consumption (crude oil equivalent, kL)			- 407				
Electric energy consumption (1000 kWh)							
Zeon Yamaguchi Co., Ltd.			160	145	160	138	90
Substances   Number of substances   40   40   40   40   40   40   40   4	Electric energy const	umption (1000 kvvn)	_	_	_	_	
Substances   Number of substances   40   40   40   40   40   40   40   4	Zeon Yamaguchi Co	o., Ltd.	FY2010	FY2011	FY2012	FY2013	FY2014
Consumption (tons)							40
Industrial waste							0.0
Mater resources (Industrial water + Ground water + Waterworks)   0.2   0.2   0.3   0.2						0.0	
Amount sent to landiii (tons)	Industrial wasto	Amount generated (before volume reduction) (tons)	187	135	207	225	4,018
CO2 emissions (tons)	muusmai wasie	Amount sent to landfill (tons)			1.4		297.2
Energy consumption (crude oil equivalent, kL)							
Electric energy consumption (1000 kWh)							
Response			6	6	5		
Number of substances	Electric energy consi	umption (1000 kWh)	_	_	_	53	21
Number of substances	Zeon Chemicals Yor	nezawa Co., Ltd.	FY2010	FY2011	FY2012	FY2013	FY2014
Consumption (tons)							5
Industrial waste	covered by PRTR	Consumption (tons)	1,231	1,897	1,773	1,642	1,759
Mater resources (Industrial water + Ground water + Waterworks)	law	Amount emitted (tons)	0.4				0.5
Mater resources (Industrial water + Ground water + Waterworks)	Industrial waste						206
CO2 emissions (tons)		Amount sent to landfill (tons)	0.4				
Energy consumption (crude oil equivalent, kL)			- 015				14
Dytes Inc. Sano Plant		,					
Optes Inc. Sano Plant			455	505	439		
Number of substances   1	Electric energy consi	umption (1000 kvvn)	_		_	1,202	1,458
Number of substances   1	Optes Inc. Sano Plar	nt	FY2010	FY2011	FY2012	FY2013	FY2014
covered by PRTR law         Consumption (tons)         0.0         0.0         0.0         0.0           Industrial waste         Amount generated (before volume reduction) (tons)         7         6         7         10         8           Amount sent to landfill (tons)         0.7         0.0         0.0         0.6         0.4           Water resources (Industrial water + Ground water + Waterworks)         4         4         5         6         6           CO <sub>2</sub> emissions (tons)         1,015         1,105         919         989         862           Energy consumption (crude oil equivalent, kL)         611         664         625         674         564           Electric energy consumption (1000 kWh)         *Included in Hokuriku Plant         -         -         -         -         *         2,274           Optes Inc. Hokuriku Plant         FY2010         FY2011         FY2012         FY2013         FY2014           Substances         Number of substances         0         0         0         1         1           covered by PRTR         Consumption (tons)         0         0         0         1.2         1.3           law         Amount emitted (tons)         0         0         0         0							1
Iaw			0.0	0.0	0.0	0.0	0.0
Amount sent to landfill (tons)	law		0.0	0.0	0.0	0.0	0.0
Amount sent to landfill (tons)	Industrial waste		7		7		8
CO2 emissions (tons)         1,015         1,105         919         989         862           Energy consumption (crude oil equivalent, kL)         611         664         625         674         564           Electric energy consumption (1000 kWh)         *Included in Hokuriku Plant         -         -         -         -         * 2,274           Optes Inc. Hokuriku Plant         FY2010         FY2011         FY2012         FY2013         FY2014           Substances         Number of substances         0         0         0         1         1           covered by PRTR         Consumption (tons)         0         0         0         1.2         1.3           law         Amount emitted (tons)         0         0         0         0         0.0         0.0           Industrial waste         Amount generated (before volume reduction) (tons)         419         707         849         1,377         1,254           Amount sent to landfill (tons)         1.5         0.0         0.0         0.0         0.3           Water resources (Industrial water + Ground water + Waterworks)         50         31         29         29         52           CO <sub>2</sub> emissions (tons)         13,159         8,499         9,622							
Energy consumption (crude oil equivalent, kL)			•		-		6
Coptest Inc. Hokuriku Plant							
Optes Inc. Hokuriku Plant         FY2010         FY2011         FY2012         FY2013         FY2014           Substances covered by PRTR law         Number of substances         0         0         0         1         1           Iaw         Amount emitted (tons)         0         0         0         0         0.0         0.0           Industrial waste         Amount generated (before volume reduction) (tons)         419         707         849         1,377         1,254           Amount sent to landfill (tons)         1.5         0.0         0.0         0.0         0.3           Water resources (Industrial water + Ground water + Waterworks)         50         31         29         29         52           CO <sub>2</sub> emissions (tons)         13,159         8,499         9,622         27,483         34,196			611	664	625	6/4	
Substances covered by PRTR law         Number of substances         0         0         0         1         1           Iaw         Amount emitted (tons)         0	Electric energy consi	umption (1000 KWn) *Included in Hokuriku Plant	_	_	_	,	2,274
Substances covered by PRTR law         Number of substances         0         0         0         1         1           Iaw         Amount emitted (tons)         0	Ontes Inc. Hokuriku	Plant	FY2010	FY2011	FY2012	FY2013	FY2014
Covered by PRTR         Consumption (tons)         0         0         0         1.2         1.3           law         Amount emitted (tons)         0         0         0         0         0.0         0.0           Industrial waste         Amount generated (before volume reduction) (tons)         419         707         849         1,377         1,254           Amount sent to landfill (tons)         1.5         0.0         0.0         0.0         0.3           Water resources (Industrial water + Ground water + Waterworks)         50         31         29         29         52           CO <sub>2</sub> emissions (tons)         13,159         8,499         9,622         27,483         34,196							1 12017
law         Amount emitted (tons)         0         0         0         0.0         0.0           Industrial waste         Amount generated (before volume reduction) (tons)         419         707         849         1,377         1,254           Amount sent to landfill (tons)         1.5         0.0         0.0         0.0         0.3           Water resources (Industrial water + Ground water + Waterworks)         50         31         29         29         52           CO <sub>2</sub> emissions (tons)         13,159         8,499         9,622         27,483         34,196				_	_		1.3
Industrial waste         Amount generated (before volume reduction) (tons)         419         707         849         1,377         1,254           Amount sent to landfill (tons)         1.5         0.0         0.0         0.0         0.3           Water resources (Industrial water + Ground water + Waterworks)         50         31         29         29         52           CO <sub>2</sub> emissions (tons)         13,159         8,499         9,622         27,483         34,196	covered by PRIR	(Consumption (tons)					
Amount sent to landfill (tons)   1.5   0.0   0.0   0.0   0.3			0	0	U	0.0	
CO <sub>2</sub> emissions (tons) 13,159 8,499 9,622 27,483 34,196	law	Amount emitted (tons)					1,254
	law Industrial waste	Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)	419 1.5	707 0.0	849 0.0	1,377 0.0	1,254 0.3
I Financia consumption (crude oil equivalent kl.)	law Industrial waste Water resources (Inc	Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)  dustrial water + Ground water + Waterworks)	419 1.5 50	707 0.0 31	849 0.0 29	1,377 0.0 29	1,254 0.3 52
	Iaw Industrial waste Water resources (Inc	Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)  dustrial water + Ground water + Waterworks)	419 1.5 50 13,159	707 0.0 31 8,499	849 0.0 29 9,622	1,377 0.0 29 27,483	1,254 0.3 52 34,196
Electric energy consumption (1000 kWh) 51,767 53,376	Industrial waste  Water resources (Inc CO <sub>2</sub> emissions (tons Energy consumption	Amount emitted (tons)  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)  dustrial water + Ground water + Waterworks)  (crude oil equivalent, kL)	419 1.5 50	707 0.0 31	849 0.0 29	1,377 0.0 29 27,483 12,549	1,254 0.3 52 34,196 13,612

TFC Inc.		FY2010	FY2011	FY2012	FY2013	FY2014
Substances	Number of substances	_	_	_	_	1
covered by PRTR	Consumption (tons)		_			0.5
law	Amount emitted (tons)	1				0.5
Industrial waste	Amount generated (before volume reduction) (tons)		_			94
	Amount sent to landfill (tons)	1				3.1
	dustrial water + Ground water + Waterworks)		_			4
CO <sub>2</sub> emissions (tons)		1				6,761
Energy consumption (crude oil equivalent, kL)			_		_	2,660
Electric energy consumption (1000 kWh)		-	_		-	7,449

Tohpe Corporation		FY2010	FY2011	FY2012	FY2013	FY2014
Substances	Number of substances		_	l	_	22
covered by PRTR	Consumption (tons)		_	_	_	8,020
law	Amount emitted (tons)		_	1	_	60
Industrial waste	Amount generated (before volume reduction) (tons)	1	_	l		2,445
industrial waste	Amount sent to landfill (tons)		_	1	_	111
Water resources (In	dustrial water + Ground water + Waterworks)		_	l		0
CO <sub>2</sub> emissions (tons)			_			8,279
Energy consumption (crude oil equivalent, kL)		-	_	_	_	4,296
Electric energy cons	Electric energy consumption (1000 kWh)		_	_	_	_

700n	Croun	(Overseas)
<b>_EUII</b>	GIOUD	(Overseas)

Zeon Group (Overse	eas)					
Zeon Group (Overse	eas)	FY2010	FY2011	FY2012	FY2013	FY2014
Substances	Number of substances	12	13		13	12
covered by PRTR	Consumption (tons)	33,557	34,201	30,380	29,080	30,599
law	Amount emitted (tons)	121	119	79	74	89
Industrial waste	Amount generated (before volume reduction) (tons)	3,988	4,132		3,769	4,168
	Amount sent to landfill (tons)	2,929	2,666		2,807	2,916
	dustrial water + Ground water + Waterworks)	_	_	1,792	1,877	2,304
CO <sub>2</sub> emissions (tons	,	91,218			84,538	125,037
Energy consumption	n (crude oil equivalent, kL)	35,221	33,530	32,215	32,072	50,145
					n	
Zeon Chemicals L.P		FY2010	FY2011	FY2012	FY2013	FY2014
Substances	Number of substances	7	8	8	8	7
covered by PRTR	Consumption (tons)	17,691	18,189		14,927	16,202
law	Amount emitted (tons)	39	43	28	20	10
Industrial waste	Amount generated (before volume reduction) (tons)	770	720	572	505	344
Motor roccuroco (In	Amount sent to landfill (tons)	736	689	552	478	332
CO <sub>2</sub> emissions (tons	dustrial water + Ground water + Waterworks)	24.640	1,080		957	1,014
	o (crude oil equivalent, kL)	34,648 11,170	34,755 11,048		31,741	33,570
Energy consumption	(Crude oil equivalent, KL)	11,170	11,046	10,136	9,820	11,017
Zeon Chemicals L.P	P. (USA): Texas	FY2010	FY2011	FY2012	FY2013	FY2014
Substances	Number of substances	0	0		0	0
covered by PRTR	Consumption (tons)	0.0	0.0	0.0	0.0	0.0
law	Amount emitted (tons)	0.0	0.0	0.0	0.0	0.0
	Amount generated (before volume reduction) (tons)	42	39	32	47	36
Industrial waste	Amount sent to landfill (tons)	1.4	1.0	1.2	2.2	3.0
Water resources (In	dustrial water + Ground water + Waterworks)	_	198	234	226	252
CO <sub>2</sub> emissions (tons		10,426			10,059	10,712
Energy consumption	(crude oil equivalent, kL)	3,093	3,065	2,945	2,940	3,150
			•	,	•	
Zeon Chemicals L.P	P. (USA): Mississippi	FY2010	FY2011	FY2012	FY2013	FY2014
Substances	Number of substances	3	3	3	3	3
covered by PRTR	Consumption (tons)	5,466	5,160	4,444	4,933	5,125
law	Amount emitted (tons)	76	70	47	48	71
Industrial waste	Amount generated (before volume reduction) (tons)	53	41	22	44	42
	Amount sent to landfill (tons)	53	41	22	44	42
	dustrial water + Ground water + Waterworks)	_	152	134	142	132
CO <sub>2</sub> emissions (tons	,	22,375	19,256	17,925	17,133	16,045
Energy consumption	n (crude oil equivalent, kL)	9,652	8,157	7,514	7,122	6,452
Zaar Ohamiaala Eu		EV/2010	EV0044	EV/0040	EV/0040	E)/004.4
Zeon Chemicals Euro Substances		FY2010	FY2011	FY2012	FY2013	FY2014
	Number of substances	10.400	10.052	2	0.220	2
covered by PRTR	Consumption (tons)	10,400	10,852	9,676 4.4	9,220	9,272
law	Amount emitted (tons) Amount generated (before volume reduction) (tons)	6.0 930	6.0 680	1,116	5.6 1,028	7.6 995
Industrial waste	Amount sent to landfill (tons)	908	644	1,116	1,028	991
Water resources (In	dustrial water + Ground water + Waterworks)	300	303	245	268	245
CO <sub>2</sub> emissions (tons		11,583	12,597	11,379	11,412	11,352
	n (crude oil equivalent, kL)	6,111	6,619	6,302	6,018	5,869
2 37 22:134:1151		<b>~</b> ;···	5,510		5,515	5,555
Zeon Advanced Poly	ymix Co., Ltd	FY2010	FY2011	FY2012	FY2013	FY2014
	Amount generated (before volume reduction) (tons)	1,007	1,216	427	235	199
Industrial waste	Amount sent to landfill (tons)	65	241	0.0	0.0	0.0
Water resources (In	dustrial water + Ground water + Waterworks)	29	30	32	32	33
CO <sub>2</sub> emissions (tons)		6,500	6,220	7,270	6,090	5,690
Energy consumption (crude oil equivalent, kL)		2,933	2,807	3,277	2,948	2,705
Zeon Chemicals That		FY2010	FY2011	FY2012	FY2013	FY2014
Industrial waste	Amount generated (before volume reduction) (tons)	1,186	1,436	1,194	1,910	2,552
Amount sent to landfill (tons)		1,166	1,050	936	1,263	1,548
Water resources (Industrial water + Ground water + Waterworks)		206	213	182	252	316
CO <sub>2</sub> emissions (tons)		5,686 2,262	4,610	5,128	8,103	8,488
	Energy consumption (crude oil equivalent, kL)		1,834	2,041	3,224	3,377
,	(crude oil equivalent, KL)	· · · · · · · · · · · · · · · · · · ·				
Energy consumption	•		EV0044	EV0040	EV0040	EV004.4
	gapore Pte. Ltd.	FY2010	FY2011	FY2012	FY2013	FY2014
Energy consumption	gapore Pte. Ltd. Amount generated (before volume reduction) (tons)		FY2011 -	FY2012 —	FY2013 —	0
Energy consumption  Zeon Chemicals Sin  Industrial waste	gapore Pte. Ltd.  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)		FY2011 —	FY2012 —	FY2013 — —	0
Zeon Chemicals Sin Industrial waste Water resources (In	gapore Pte. Ltd.  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)  dustrial water + Ground water + Waterworks)		FY2011 — — —	FY2012 - - -	FY2013 — — —	0 0 312
Zeon Chemicals Sin Industrial waste Water resources (In CO <sub>2</sub> emissions (tons	gapore Pte. Ltd.  Amount generated (before volume reduction) (tons)  Amount sent to landfill (tons)  dustrial water + Ground water + Waterworks)		FY2011 ———————————————————————————————————	FY2012 — — — —	FY2013 — — — —	0