

ZEON Corporation		FY2007	FY2008	FY2009	FY2010	FY2011
Toxic substances	Butadiene consumption (tons)	380,982	346,749	349,841	388,507	346,224
	Butadiene emissions (tons)	21.6	18.4	5.2	5.5	4.0
	Acrylonitrile consumption (tons)	26,507	21,839	23,922	28,950	24,367
	Acrylonitrile emissions (tons)	20.7	14.2	12.8	15.2	13.0
Substances subject to PRTR law	Consumption (tons)	784,910	747,304	724,284	922,429	877,919
	Amount emitted (tons)	55.9	46.0	30.0	36.7	37.0
Industrial waste	Amount generated (before volume reduction) (tons)	126,733	99,068	97,231	129,151	131,566
	Amount generated (after volume reduction) (tons)	24,354	14,766	12,387	15,116	15,608
	Amount sent to landfill (tons)	1,504	464	159	183	4.1
Atmospheric emissions	CO ₂ emissions (tons)	726,664	653,464	532,122	581,038	581,060
	SO _x emissions (tons)	702	564	460	495	513
	NO _x emissions (tons)	416	408	421	459	375
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		19,680	16,987	16,011	16,595	18,810
Waste water	Total effluent waste water discharge (1,000 m ³)	17,770	15,786	14,981	14,210	15,715
	COD emissions (tons)	194	140	126	140	136
	Total phosphorus discharge (tons)	2.8	2.9	1.5	1.6	2.1
	Total nitrogen discharge (tons)	146	129	135	153	149
Energy	Total consumption (crude oil equivalent, kl)	268,448	240,305	199,377	216,216	210,992
	Unit consumption index (1990 = 100)	90%	95%	74%	68%	73%
Production of PDR equivalent (tons)		1,426,049	1,215,808	1,288,325	1,527,934	1,375,870
CO ₂ emissions Unit consumption index (1990 = 100)		95%	100%	77%	71%	79%

ZEON Corporation each worksites (0.0 = less than 0.05)

Takaoka Plant		FY2007	FY2008	FY2009	FY2010	FY2011
Toxic substances	Vinyl chloride monomer consumption (tons)	759	0.0	0.0	0.0	0.0
	Vinyl chloride monomer emissions (tons)	1.0	0.0	0.0	0.0	0.0
Substances subject to PRTR law	Consumption (tons)	1,277	116	114	210	223
	Amount emitted (tons)	4.3	0.1	0.1	0.2	0.2
Industrial waste	Amount generated (before volume reduction) (tons)	3,751	3,199	2,130	3,458	4,730
	Amount generated (after volume reduction) (tons)	1,522	764	388	671	529
	Amount sent to landfill (tons)	1,016	312	129	174	0
Atmospheric emissions	CO ₂ emissions (tons)	55,114	20,981	17,817	24,208	24,427
	SO _x emissions (tons)	52	14	8.7	7.0	6.8
	NO _x emissions (tons)	49	17	19	14	15
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000m ³)		-	-	-	3,732	3,799
Waste water	Total effluent waste water discharge (1,000m ³)	6,919	4,284	3,516	3,050	3,398
	COD emissions (tons)	42	12	12	9.2	13.0
	Total phosphorus discharge (tons)	0.5	0.9	0.4	0.2	0.7
	Total nitrogen discharge (tons)	5.6	23	19	10	16
Energy	Total consumption (crude oil equivalent, kl)	20,983	8,465	8,112	9,750	9,015
	Unit consumption index (1990 = 100)	101%	102%	93%	94%	95%
Production of PDR equivalent (tons)		10,762	4,337	4,523	5,419	4,866

Kawasaki Plant		FY2007	FY2008	FY2009	FY2010	FY2011
Toxic substances	Butadiene consumption (tons)	28,886	21,902	21,758	26,613	23,054
	Butadiene emissions (tons)	4.5	3.1	2.3	4.8	2.6
	Acrylonitrile consumption (tons)	13,030	9,576	9,556	12,034	10,670
	Acrylonitrile emissions (tons)	20	14	12	15	12
Substances subject to PRTR law	Consumption (tons)	58,026	44,085	44,101	51,781	46,186
	Amount emitted (tons)	31	27	21	30	26
Industrial waste	Amount generated (before volume reduction) (tons)	33,349	34,500	30,163	44,132	47,718
	Amount generated (after volume reduction) (tons)	5,871	4,641	3,136	5,315	5,383
	Amount sent to landfill (tons)	392	118	13	0.4	0.4
Atmospheric emissions	CO ₂ emissions (tons)	39,420	31,030	33,900	36,478	39,972
	SO _x emissions (tons)	1.0	1.0	0.6	0.7	0.1
	NO _x emissions (tons)	17	17	18	10	8
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000m ³)		-	-	-	2,575	2,963
Waste water	Total effluent waste water discharge (1,000m ³)	1,970	1,598	1,602	1,836	1,793
	COD emissions (tons)	58	37	35	41	40
	Total phosphorus discharge (tons)	1.0	0.8	0.2	0.1	0.2
	Total nitrogen discharge (tons)	93	60	74	93	89
Energy	Total consumption (crude oil equivalent, kl)	19,982	15,829	15,167	16,239	16,526
	Unit consumption index (1990 = 100)	91%	97%	92%	78%	91%
Production of PDR equivalent (tons)		99,680	73,587	74,803	94,340	81,790

Tokuyama Plant		FY2007	FY2008	FY2009	FY2010	FY2011
Toxic substances	Butadiene consumption (tons)	201,815	191,364	188,743	217,074	186,784
	Butadiene emissions (tons)	17	15	2.8	0.7	1.4
	Acrylonitrile consumption (tons)	13,477	12,263	14,366	16,916	13,697
	Acrylonitrile emissions (tons)	0.7	0.7	0.7	0.6	0.6
Substances subject to PRTR law	Consumption (tons)	407,934	417,519	386,572	464,767	388,603
	Amount emitted (tons)	20	18	7.6	2.2	3.1
Industrial waste	Amount generated (before volume reduction) (tons)	30,650	25,881	19,845	21,516	18,718
	Amount generated (after volume reduction) (tons)	10,211	4,512	3,857	3,756	3,762
	Amount sent to landfill (tons)	77	15	10	0.0	0.0
Atmospheric emissions	CO ₂ emissions (tons)	270,000	275,000	252,091	294,112	248,000
	SO _x emissions (tons)	647	547	447	483	502
	NO _x emissions (tons)	280	311	308	358	272
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000m ³)		-	-	-	7,824	9,482
Waste water	Total effluent waste water discharge (1,000m ³)	6,331	7,704	7,713	6,942	7,884
	COD emissions (tons)	81	79	68	77	69
	Total phosphorus discharge (tons)	0.6	0.8	0.5	0.7	0.6
	Total nitrogen discharge (tons)	27	32	31	33	27
Energy	Total consumption (crude oil equivalent, kl)	98,938	100,502	93,485	107,497	89,173
	Unit consumption index (1990 = 100)	101%	106%	102%	98%	98%
Production of PDR equivalent (tons)		535,323	518,702	503,567	599,400	498,167

Mizushima Plant		FY2007	FY2008	FY2009	FY2010	FY2011
Toxic substances	Butadiene consumption (tons)	150,281	133,483	139,340	144,820	136,385
	Butadiene emissions (tons)	0.0	0.0	0.0	0.0	0.0
Substances subject to PRTR law	Consumption (tons)	317,673	285,584	293,497	405,671	442,900
	Amount emitted (tons)	1.0	1.0	1.0	4.4	4.4
Industrial waste	Amount generated (before volume reduction) (tons)	58,983	35,488	45,093	60,045	60,400
	Amount generated (after volume reduction) (tons)	6,750	4,849	5,006	5,374	5,935
	Amount sent to landfill (tons)	19	19	6.6	6.8	3.7
Atmospheric emissions	CO ₂ emissions (tons)	351,881	315,893	219,343	217,000	259,630
	SO _x emissions (tons)	1.5	1.9	4.3	4.6	3.8
	NO _x emissions (tons)	70	63	75	77	80
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000m ³)		-	-	-	2,378	2,481
Waste water	Total effluent waste water discharge (1,000m ³)	2,550	2,200	2,150	2,382	2,640
	COD emissions (tons)	13	11	11	13	15
	Total phosphorus discharge (tons)	0.7	0.5	0.4	0.6	0.6
	Total nitrogen discharge (tons)	21	15	12	17	16
Energy	Total consumption (crude oil equivalent, kl)	123,793	110,690	77,930	77,852	91,500
	Unit consumption index (1990 = 100)	79%	84%	51%	44%	54%
Production of PDR equivalent (tons)		668,413	563,495	648,665	760,900	731,500

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

ZEON Group (Japan)		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	62	59	62	62	62
	Consumption (tons)	353	280	335	1,486	2,125
	Amount emitted (tons)	7.7	7.0	1.6	2.6	2.7
Industrial waste	Amount generated (before volume reduction) (tons)	2,474	1,589	1,695	1,783	1,914
	Amount generated (after volume reduction) (tons)	-	-	-	-	0
	Amount sent to landfill (tons)	633	457	268	130	42
CO ₂ emissions (tons)		31,329	33,206	29,072	23,134	18,024
Energy consumption (crude oil equivalent, kl)		14,379	14,395	15,933	16,454	14,987
ZEON Kasei Co., Ltd. Ibaraki Factory		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	3	4	5	7	7
	Consumption (tons)	100	90	70	95	61
	Amount emitted (tons)	6.0	5.5	0.0	0.0	0.0
Industrial waste	Amount generated (before volume reduction) (tons)	611	550	530	648	529
	Amount sent to landfill (tons)	198	176	95	69	0.0
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		23	14	22	34	41
CO ₂ emissions (tons)		3,700	4,440	3,309	4,257	3,845
Energy consumption (crude oil equivalent, kl)		1,866	1,833	1,992	2,328	2,191
Zeon Kasei Co., Ltd. Yamaguchi Factory		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	1	1	3	3	3
	Consumption (tons)	0.9	0.8	0.0	0.0	0.0
	Amount emitted (tons)	0.5	0.4	0.0	0.0	0.0
Industrial waste	Amount generated (before volume reduction) (tons)	76	71	187	99	91
	Amount sent to landfill (tons)	0	0	0	0	0.0
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	0	0	0	0.2
CO ₂ emissions (tons)		266	234	213	231	412
Energy consumption (crude oil equivalent, kl)		110	97	105	94	147
ZEON Polymix Inc. Otsu Plant		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	6	5	5	5	5
	Consumption (tons)	171	90	194	148	165
	Amount emitted (tons)	0.0	0.0	0.0	0.0	0.0
Industrial waste	Amount generated (before volume reduction) (tons)	216	167	201	195	171
	Amount sent to landfill (tons)	121	101	95	25	4.0
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	-	-	-	45
CO ₂ emissions (tons)		2,757	2,250	1,987	2,230	1,938
Energy consumption (crude oil equivalent, kl)		1,634	1,329	1,507	1,697	1,573
ZEON Polymix Inc. Kawagoe Plant		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	6	3	3	3	-
	Consumption (tons)	62	81	56	9.8	-
	Amount emitted (tons)	0.0	0.0	0.0	0.0	-
Industrial waste	Amount generated (before volume reduction) (tons)	150	90	48	46	-
	Amount sent to landfill (tons)	93	51	8.9	12	-
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	-	-	-	-
CO ₂ emissions (tons)		994	855	414	103	-
Energy consumption (crude oil equivalent, kl)		571	352	266	56	-
ZEON Medical Inc.		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	1	1	1	1	1
	Consumption (tons)	1.0	1.1	1.5	2.3	2.2
	Amount emitted (tons)	1.0	1.1	1.5	2.3	2.2
Industrial waste	Amount generated (before volume reduction) (tons)	2.4	5.0	5.4	7.6	21.9
	Amount sent to landfill (tons)	2.4	5.0	5.3	7.6	11.2
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	-	-	-	11.7
CO ₂ emissions (tons)		899	1,000	969	970	969
Energy consumption (crude oil equivalent, kl)		423	412	472	462	431

ZEON North Co., Ltd.		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	0	0	0	0	0
	Consumption (tons)	0	0	0	0	0
	Amount emitted (tons)	0	0	0	0	0
Industrial waste	Amount generated (before volume reduction) (tons)	45	43	38	36	38
	Amount sent to landfill (tons)	45	31	14	8.0	5.0
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	-	-	-	-
CO ₂ emissions (tons)		217	195	152	155	160
Energy consumption (crude oil equivalent, kl)		80	81	76	84	80
RIMTEC Corporation		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	0	0	0	0	0
	Consumption (tons)	0	0	0	0	0
	Amount emitted (tons)	0	0	0	0	0
Industrial waste	Amount generated (before volume reduction) (tons)	263	149	48	52	29
	Amount sent to landfill (tons)	150	66	1.9	3.6	3.4
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	-	-	-	167
CO ₂ emissions (tons)		878	673	213	187	145
Energy consumption (crude oil equivalent, kl)		366	281	180	160	-
ZEON Yamaguchi Co., Ltd.		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	40	40	40	40	40
	Consumption (tons)	0	0	0	0	0
	Amount emitted (tons)	0	0	0	0	0
Industrial waste	Amount generated (before volume reduction) (tons)	62	77	105	187	135
	Amount sent to landfill (tons)	5.0	1.2	32	2.0	18.2
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		0.2	0.2	0.2	0.2	0.2
CO ₂ emissions (tons)		11	12	11	12	11
Energy consumption (crude oil equivalent, kl)		5.0	6.0	5.7	6.0	6.0
ZEON Chemicals Yonezawa Co., Ltd.		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	4	4	4	2	5
	Consumption (tons)	18	17	13	1,231	1,897
	Amount emitted (tons)	0.0	0.0	0.0	0.4	0.5
Industrial waste	Amount generated (before volume reduction) (tons)	194	223	59	87	186
	Amount sent to landfill (tons)	8.5	10.0	4.2	0.4	0.4
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	-	-	-	14,165
CO ₂ emissions (tons)		1,450	1,170	489	815	940
Energy consumption (crude oil equivalent, kl)		623	509	290	455	505
Optes Inc. Sano Plant		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	1	1	1	1	1
	Consumption (tons)	0.1	0.1	0.1	0.0	0.0
	Amount emitted (tons)	0.1	0.1	0.1	0.0	0.0
Industrial waste	Amount generated (before volume reduction) (tons)	25	16	11	7.2	5.9
	Amount sent to landfill (tons)	10	16	11	0.7	0.0
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		27	18	4	4	4
CO ₂ emissions (tons)		1,760	1,580	1,711	1,015	1,105
Energy consumption (crude oil equivalent, kl)		992	888	981	611	664
Optes Inc. Toyama Plant		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	0	0	0	0	0
	Consumption (tons)	0	0	0	0	0
	Amount emitted (tons)	0	0	0	0	0
Industrial waste	Amount generated (before volume reduction) (tons)	830	200	462	419	707
	Amount sent to landfill (tons)	0.0	0.0	0.8	1.5	0.0
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	-	40	50	31
CO ₂ emissions (tons)		18,398	20,798	19,604	13,159	8,499
Energy consumption (crude oil equivalent, kl)		7,708	8,608	10,058	10,501	9,390

ZEON Group (Overseas)

ZEON Group (Overseas)		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	13	13	12	12	13
	Consumption (tons)	48,852	35,312	18,689	33,557	34,201
	Amount emitted (tons)	121	112	78	121	119
Industrial waste	Amount generated (before volume reduction) (tons)	5,757	4,216	3,474	3,988	4,132
	Amount generated (after volume reduction) (tons)	-	-	-	-	-
	Amount sent to landfill (tons)	4,324	2,945	2,421	2,929	2,666
CO ₂ emissions (tons)		88,095	85,591	62,461	91,218	87,763
Energy consumption (crude oil equivalent, kl)		32,394	31,950	23,798	35,221	33,530

Zeon Chemicals L.P. (USA): Kentucky		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	8	8	7	7	8
	Consumption (tons)	30,768	18,835	6,459	17,691	18,189
	Amount emitted (tons)	62	56	33	39	43
Industrial waste	Amount generated (before volume reduction) (tons)	394	721	671	770	720
	Amount sent to landfill (tons)	350	679	645	736	689
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	-	-	-	1,080
CO ₂ emissions (tons)		35,196	35,996	22,799	34,648	34,755
Energy consumption (crude oil equivalent, kl)		11,389	11,870	6,909	11,170	11,048

Zeon Chemicals L.P. (USA): Texas		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	0	0	0	0	0
	Consumption (tons)	0	0	0	0	0
	Amount emitted (tons)	0	0	0	0	0
Industrial waste	Amount generated (before volume reduction) (tons)	33	34	24	42	39
	Amount sent to landfill (tons)	1.4	1.4	3.9	1.4	1.0
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	-	-	-	1,646
CO ₂ emissions (tons)		8,639	8,118	5,419	10,426	10,325
Energy consumption (crude oil equivalent, kl)		2,526	2,332	1,509	3,093	3,065

Zeon Chemicals L.P. (USA): Mississippi		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	3	3	3	3	3
	Consumption (tons)	4,538	3,923	2,633	5,466	5,160
	Amount emitted (tons)	56	53	39	76	70
Industrial waste	Amount generated (before volume reduction) (tons)	100	50	57	53	41
	Amount sent to landfill (tons)	100	50	57	53	41
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	-	-	-	152
CO ₂ emissions (tons)		16,500	15,099	13,097	22,375	19,256
Energy consumption (crude oil equivalent, kl)		6,987	6,323	5,350	9,652	8,157

Zeon Chemicals Europe Ltd. (UK)		FY2007	FY2008	FY2009	FY2010	FY2011
Substances covered by PRTR law	Number of substances	2	2	2	2	2
	Consumption (tons)	13,546	12,554	9,596	10,400	10,852
	Amount emitted (tons)	3.2	3.3	5.0	6.0	6.0
Industrial waste	Amount generated (before volume reduction) (tons)	1,937	1,302	818	930	680
	Amount sent to landfill (tons)	1,911	1,280	808	908	644
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	-	-	-	303
CO ₂ emissions (tons)		16,500	15,099	10,369	11,583	12,597
Energy consumption (crude oil equivalent, kl)		6,760	6,661	5,480	6,111	6,619

ZEON Chemicals Thailand Co., Ltd.		FY2007	FY2008	FY2009	FY2010	FY2011
Industrial waste	Amount generated (before volume reduction) (tons)	2,146	1,022	1,163	1,186	1,436
	Amount sent to landfill (tons)	1,700	659	846	1,166	1,050
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		-	-	-	206	213
CO ₂ emissions (tons)		5,650	5,229	5,878	5,686	4,610
Energy consumption (crude oil equivalent, kl)		2,215	2,050	2,340	2,262	1,834

ZEON Advanced Polymix Co., Ltd		FY2007	FY2008	FY2009	FY2010	FY2011
Industrial waste	Amount generated (before volume reduction) (tons)	1,147	1,088	741	1,007	1,216
	Amount sent to landfill (tons)	262	277	61	65	241
Water resources (Industrial water + Ground water + Waterworks) consumption (1,000 m ³)		28	31	18	29	30
CO ₂ emissions (tons)		5,610	6,050	4,898	6,500	6,220
Energy consumption (crude oil equivalent, kl)		2,517	2,714	2,210	2,933	2,807