

Environmental Data

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Domestic/Overseas

Kawasaki's Environmental Data (Fiscal 2016)

		Unit	Whole group	Change from fiscal 2015	
INPUT	Total energy consumption (crude oil conversion)	kl	154,877	102%	
	Purchased electricity	MWh	370,750	101%	
	Fuel	TJ	2,392	104%	
	Renewable energy	MWh	1,666	95%	
	Materials	10,000 t	9	100%	
	Water	1,000 m ³	5,903	98%	
OUTPUT	Air	CO ₂ emissions volume from energy sources	t	324,954	102%
		SOx	t	16	164%
		NOx	t	309	176%
		Soot and dust	t	7	93%
		PRTR regulated substance	t	904	107%
	Water	Wastewater	1,000 m ³	3,545	98%
		COD	t	9	79%
		Nitrogen	t	21	80%
		Phosphorus	t	0.2	83%
		PRTR regulated substance	t	1	100%
	Waste	Total emitted	t	51,439	102%
		Recycled	t	49,976	101%
		Others	t	1,463	119%
		PRTR regulated substance in above total	t	278	106%
	Others	CO ₂ emissions during transport	t	3,769	91%

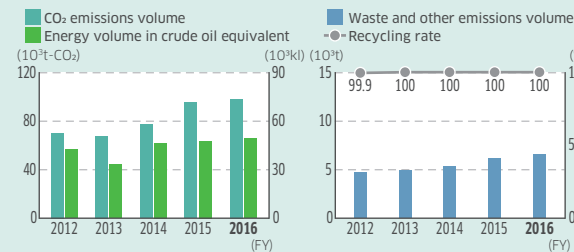
Environmental Data by Business Site (Fiscal 2016) 1/2

		Unit	Gifu Works	Nagoya Works 1	Kobe Works	Hyogo Works	Nishi-Kobe Works	
INPUT	Total energy consumption (crude oil conversion)	kl	35,632	13,808	14,095	5,368	14,528	
	Purchased electricity	MWh	71,626	53,863	32,754	17,094	52,523	
	Fuel	TJ	682	12	228	40	52	
	Renewable energy	MWh	0	879	26	26	519	
	Water	1,000 m ³	3,944	68	307	78	178	
OUTPUT	Air	CO ₂ emissions volume from energy sources	t	72,315	27,346	29,849	11,137	30,140
		SOx	t	3	0	11	0	0
		NOx	t	60	1	170	0.7	0.5
		Soot and dust	t	0.6	Under 0.1	4	Under 0.1	Under 0.1
		PRTR regulated substance	t	129	1	128	101	29
	Water	Wastewater	1,000 m ³	2,154	18	144	78	59
		COD	t	7	0.2	Under 0.1	Under 0.1	0.2
		Nitrogen	t	19	0.1	Under 0.1	Under 0.1	0.7
		Phosphorus	t	Under 0.1	Under 0.1	Under 0.1	Under 0.1	Under 0.1
		PRTR regulated substance	t	1	0	0	0	0
	Waste	Total emitted	t	5,556	1,061	10,492	4,912	3,610
		Recycled	t	5,556	1,061	10,492	4,912	3,610
		Other (incineration/reclamation)	t	0	0	0	0	0
		PRTR regulated substance in above total	t	76	0	32	53	34

Gifu Works and Nagoya Works 1

Location 1, Kawasaki-cho, Kakamigahara, Gifu 504-8710, Japan

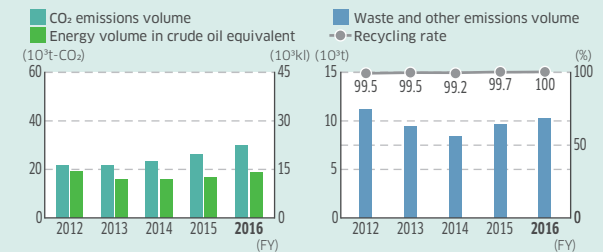
Main products Transport airplanes, helicopters, spacecraft, component parts for airplanes



Kobe Works

Location 1-1, Higashikawasaki-cho 3-chome, Chuo-ku, Kobe, Hyogo 650-8670, Japan

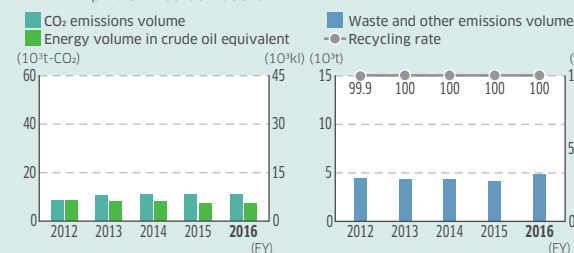
Main products Ships & maritime application equipment, steam turbines for ground and maritime applications, diesel engines



Hyogo Works

Location 1-18, Wadayama-dori 2-chome, Hyogo-ku, Kobe, Hyogo 652-0884, Japan

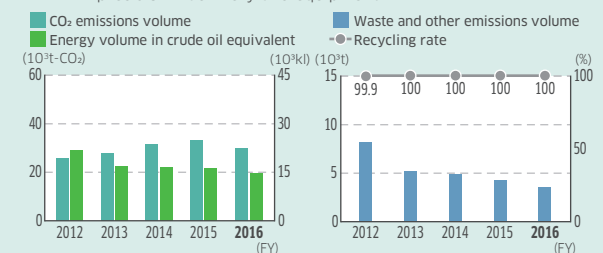
Main products Rolling stock, automated guideway transit systems, platform screen doors



Nishi-Kobe Works

Location 234, Matsumoto, Hazetani-cho, Nishi-ku, Kobe, Hyogo 651-2239, Japan

Main products Various hydraulic systems for industrial use, marine machinery, precision machinery and equipment



Note: CO₂ emissions are impacted by the electricity emission factor.

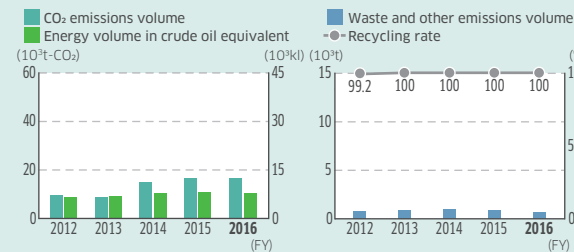
Environmental Data by Business Site (Fiscal 2016) 2/2

		Unit	Seishin Works	Akashi Works	Kakogawa Works	Harima Works	Sakaide Works	
INPUT	Total energy consumption (crude oil conversion)	kl	7,988	44,567	3,651	4,382	9,599	
	Purchased electricity	MWh	25,136	56,664	8,043	14,008	35,103	
	Fuel	TJ	66	1,176	63	32	32	
	Renewable energy	MWh	0	150	0	5	61	
	Water	1,000 m ³	81	833	12	79	320	
OUTPUT	Air	CO ₂ emissions volume from energy sources	t	16,505	92,878	7,442	8,753	26,117
		SOx	t	0	0	0	0	0
		NOx	t	1	15	0	0.2	Under 0.1
		Soot and dust	t	Under 0.1	1.7	0	Under 0.1	Under 0.1
		PRTR regulated substance	t	7	93	0	37	379
	Water	Wastewater	1,000 m ³	49	527	5	42	470
		COD	t	0.6	0.4	Under 0.1	Under 0.1	0.4
		Nitrogen	t	0.5	0.3	Under 0.1	Under 0.1	0.5
		Phosphorus	t	Under 0.1	Under 0.1	Under 0.1	Under 0.1	Under 0.1
		PRTR regulated substance	t	0	Under 0.1	0	0	0
	Waste	Total emitted	t	732	8,326	1,446	3,944	11,360
		Recycled	t	732	8,274	1,446	3,944	9,949
		Other (incineration/reclamation)	t	0	52	0	0	1,411
		PRTR regulated substance in above total	t	11	57	0	2	13

Seishin Works

Location 8-1, Takatsukadai 2-chome, Nishi-ku, Kobe, Hyogo 651-2271, Japan

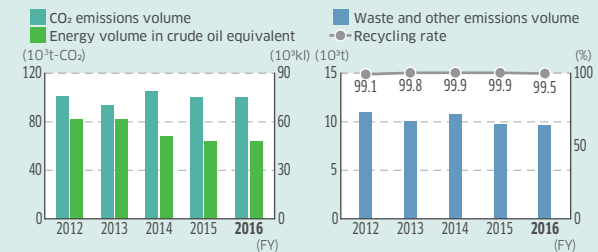
Main products Component parts for jet engines and gas turbines



Akashi Works and Kakogawa Works

Location 1-1, Kawasaki-cho, Akashi, Hyogo 673-8666, Japan

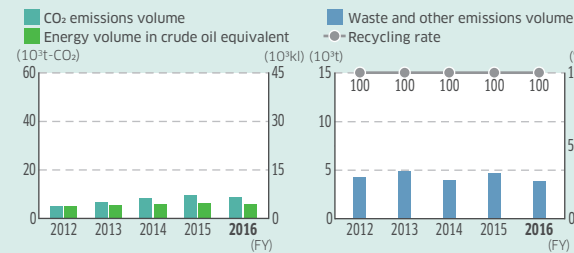
Main products Motorcycles, general-purpose gasoline engines, industrial robots, jet engines, industrial gas turbines



Harima Works

Location 8, Nijijima, Harima-cho, Kako-gun, Hyogo 675-0155, Japan

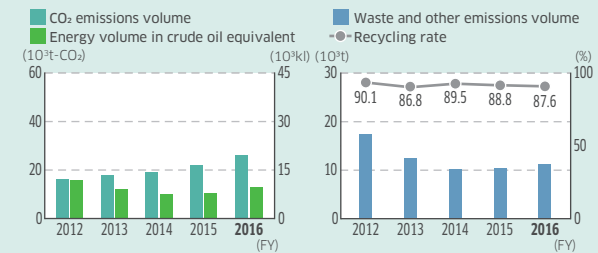
Main products Industrial & environmental plants, boilers, construction machinery, rolling stock



Sakaide Works

Location 1, Kawasaki-cho, Sakaide, Kagawa 762-8507, Japan

Main products Ships & maritime application equipment (LNG carriers, LPG carriers, container ships, etc.)



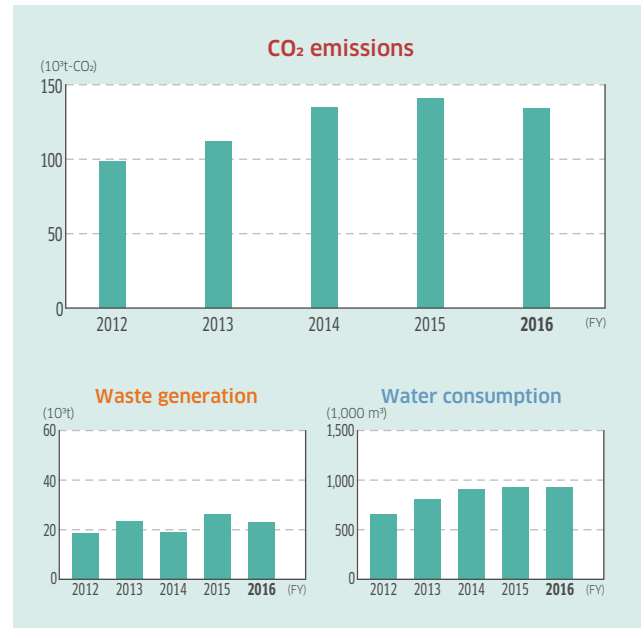
Note: CO₂ emissions are impacted by the electricity emission factor.

Environmental Data of Subsidiaries (Fiscal 2016)

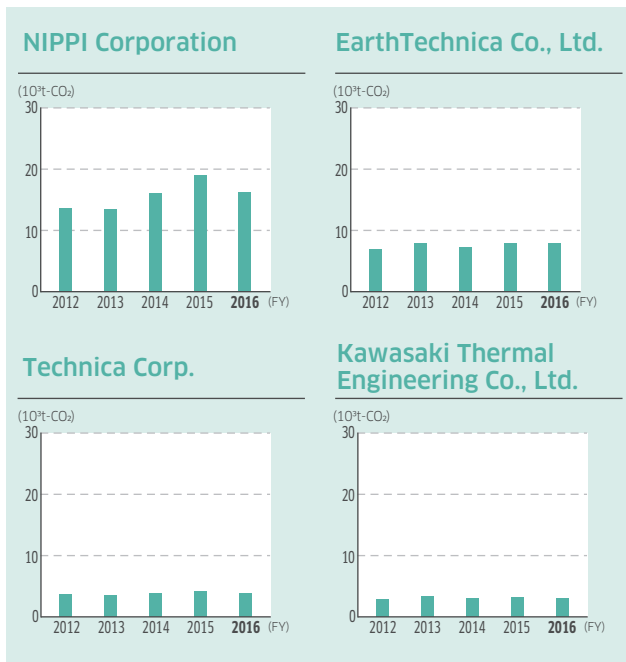
Total for Domestic Subsidiaries



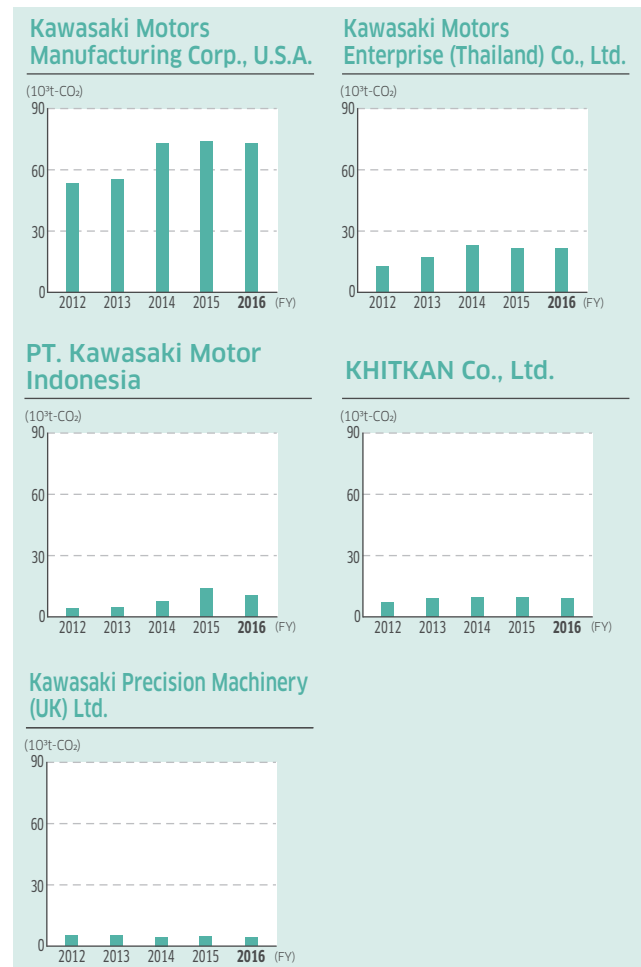
Total for Overseas Subsidiaries



CO₂ Emissions of Domestic Major Subsidiaries



CO₂ Emissions of Overseas Major Subsidiaries



Note: The CO₂ emissions coefficients used in graphs are, in principle, those indicated below.

- Ministry of the Environment website: List of emission factors for electric power providers, published by Japan's Ministry of the Environment (Used in submission for 2016) <http://ghg-santeikohyo.env.go.jp/calc> (Japanese only)
- For CO₂ emissions volume through overseas electricity consumption, the figures published by the Greenhouse Gas Protocol are used.
- Subsidiary environmental data collection targets are, in principle, the companies with EMS that are listed on page 19.