Environmental Data

Toyota Industries Group-Wide Environmental Data

Category	Environmental Performance Index			Unit	Toyota Industries, non-consolidated	Domestic Subsidiaries and Affiliates	Overseas Subsidiaries	Total
Input	Energy	Purchased electric power		MWh	318,579	360,844	198,317	877,740
		City gas		km^3N	63,704	28,504	15,116	107,324
		LPG		t	139	947	2,258	3,344
		A heavy oil		kℓ	0	608	450	1,058
		Kerosene		kℓ	2	272	0	274
		Coke		t	7,451	0	0	7,451
		Oil cokes		t	1,595	0	0	1,595
		Gasoline		kℓ	68	0	0	68
		Light oil		kℓ	214	0	2,250	2,464
		Subtotal		**GJ**	**4,379,498**	**2,692,151**	**1,920,474**	**8,992,123**
	Electric power generated	Co-generation		MWh	164,302	27,244	0	191,546
		Solar-generated		MWh	200	0	3	203
		Wind-generated		MWh	0	0	0	0
	Raw materials	Metals	Ferrous	t	176,330	3,097	164,629	344,056
			Non-ferrous	t	58,662	22,788	7,418	88,868
			Subtotal	**t**	**234,991**	**25,885**	**172,048**	**432,924**
		Nonmetals	Resins	t	1,569	66	808	2,443
			Inorganic compounds	t	0	678	35	713
			Subtotal	**t**	**1,569**	**744**	**843**	**3,156**
	Water	Industrial water		m^3	1,355,150	1,865,755	370,938	3,591,843
		Municipal water		m^3	512,787	136,406	136,346	785,539
		Well water		m^3	1,188,617	1,202,438	0	2,391,055
		Subtotal		**m^3**	**3,056,554**	**3,204,599**	**507,284**	**6,768,437**
	Chemical substances	Toxic materials		t	2,011	4,765	–	6,776
		PRTR Law-designated substances		t	2,650	481	–	3,131
	Packaging materials	Wood		t	2,010	37	885	2,932
		Cardboard		t	2,066	287	991	3,344
		Plastics		t	125	77	0	202
		Other		t	0	64	6	70
	Office supplies	Copy paper		t	135	63	0	198
Output	Greenhouse gases	From production activities	CO_2	t-CO_2	257,582	201,832	181,222	640,636
			CH4	t-CO_2	0	0	76	76
			N_2O	t-CO_2	0	521	0	521
			HFC	t-CO_2	3,697	1,289	547	5,533
			PFC	t-CO_2	8,325	3,873	0	12,198
			SF_6	t-CO_2	0	7,152	0	7,152
			Subtotal	**t-CO_2**	**269,604**	**214,667**	**181,845**	**666,116**
		From logistics operations	CO_2	t-CO_2	7,790	2,120	6,030	15,940
	Air pollutants	SOx		kg	333	559	202	1,094
		NOx		kg	141,016	54,282	38,809	234,107
		VOC		t	1,872	495	156	2,523
	Wastewater	Volume of water discharged to treatment plants		m^3	2,448,152	2,104,661	165,233	4,718,046
	Water pollutants	COD		t	18	7	–	25
		Nitrogen		t	13	6	–	19
		Phosphorous		t	0	0	–	0
	PRTR-designated substances	Air		t	529	157	–	686
		Water		t	5	2	–	7
		Landfill waste		t	0	0	–	0
		Subtotal		**t**	**534**	**159**	–	**693**
	Transferred	Waste		t	137	270	–	407
		Sewage		t	0	7	–	7
		Subtotal		**t**	**137**	**277**	–	**414**
	Waste	Reusable materials		t	82,216	66,123	25,323	173,662
		Industrial Waste	Recycled	t	18,884	58,636	3,013	80,533
			Intermediate processing by third party	t	0	2,415	5,748	8,163
			Direct landfill waste	t	0	180	1,285	1,465
			On-site storage	t	0	0	329	329
			Subtotal	**t**	**18,884**	**61,231**	**10,375**	**90,490**
			Recycling rate	%	100	100	29	100
			Industrial waste subject to special control*	t	176	36,442	0	36,617
		Municipal waste		t	1,595	515	0	2,110
	Hazardous substances	PCB storage	Condensers	units	398	74	0	870
			Transformers	units	8	0	0	8
			Ballast	units	465	0	0	465
		Amount consigned to PCB disposal contractors	Condensers	units	30	0	0	30
			Transformers	units	0	0	0	0
			Ballast	units	0	0	0	0

* The breakdown of industrial waste subject to special control which is recycled outside of the company

PRTR Law-Designated Substances Released and Transferred (Domestic Production Facilities)

(kg)

Category	Ordinance No.	Chemical Substance	Amount Handled	Released Volume			Transferred Volume		Volume Recycled	Volume Removed	Consumption Volume	Volume Used in Products
				Air	Water	Landfill waste	Waste	Sewage				
Toyota Industries' non-consolidated	1	Zinc compounds (water-soluble)	18,913	0	1,593	0	2,188	0	0	0	1	15,131
	16	2-Aminoethanol	2,389	0	14	0	2,303	0	0	72	0	0
	25	Antimony and its compounds	17,457	0	0	0	6	0	0	0	0	17,451
	30	Bisphenol-A epoxy resin	25,590	0	117	0	1,797	0	0	387	69	23,220
	40	Ethylbenzene	200,382	144,788	0	0	21,115	0	10,042	17,720	6,717	0
	44	Ethylene glycol monoethyl ether	1,043,198	13	0	0	2,638	0	0	0	0	1,040,547
	45	Ethylene glycol monomethyl ether	1,350	1,350	0	0	0	0	0	0	0	0
	63	Xylene	487,826	242,829	0	0	43,195	0	31,283	21,508	38,233	110,778
	68	Chromium and chromium (III) compounds	91,534	0	0	0	3,689	0	20,034	0	0	67,811
	101	2-ethoxyethyl acetate; ethylene glycol monoethyl ether acetate	1,538	1,538	0	0	0	0	0	0	0	0
	176	Organic tin compounds	15,049	0	41	0	0	0	2,834	135	0	12,039
	177	Styrene	5,274	53	0	0	105	0	0	0	0	5,116
	224	1,3,5-trimethylbenzene	36,704	29,713	0	0	0	0	4,188	2,801	2	0
	227	Toluene	342,253	105,501	0	0	13,487	0	0	3,717	57,054	162,494
	230	Lead and its compounds	3,348	0	0	0	0	0	1,931	0	0	1,417
	231	Nickel	2,003	0	0	0	0	0	2,003	0	0	0
	232	Nickel compounds	3,549	0	64	0	1,706	0	0	0	0	1,779
	273	N-butyl benzyl phthalate	2,156	0	97	0	1,304	0	0	108	0	647
	299	Benzene	9,730	8	0	0	0	0	0	0	2,337	7,385
	307	Poly (oxyethylene) alkyl ether (C=12-15)	8,849	0	1,010	0	6,462	0	0	1,377	0	0
	311	Manganese and its compounds	200,678	0	1,387	0	39,789	0	11,019	0	0	148,483
	346	Molybdenum and its compounds	47,380	0	0	0	142	0	0	0	0	47,238
Subsidiaries and affiliates in Japan	16	2-Aminoethanol	12,080	0	18	0	12,030	0	0	32	0	0
	40	Ethylbenzene	20,698	20,643	0	0	55	0	0	0	0	0
	63	Xylene	55,298	50,748	0	0	94	0	0	0	4,456	0
	207	Copper salts (water-soluble, except complex salts)	39,640	0	396	0	19,424	0	0	0	0	19,820
	227	Toluene	68,734	68,734	0	0	0	0	0	0	0	0
	231	Nickel	1,199	0	0	0	0	0	0	959	0	240
	232	Nickel compounds	1,249	0	1	0	998	0	0	250	0	0
	283	Fluorine compounds, water-soluble chlorides	215,837	651	1,511	0	200,938	0	3	12,734	0	0
	304	Boron and its compounds	3,210	0	44	0	2,166	0	0	0	0	0
	309	Poly (oxyethylene) nonylphenyl ether	6,542	0	0	0	0	6,542	0	0	0	0
	310	Formaldehyde	29,851	22	0	0	29,829	0	0	0	0	0
	346	Molybdenum and other chemical compounds	60,740	44	0	0	60,021	0	0	0	0	675

CO_2 Emission Conversion Factors

Contents	Coefficient
Electric power	0.3817kg-CO_2/kWh
City gas	2.3576kg-CO_2/m^3
LPG	3.0094kg-CO_2/kg
Coke	3.2502kg-CO_2/kg
A heavy oil	2.7000kg-CO_2/ℓ
Kerosene	2.5308kg-CO_2/ℓ
Light oil	2.6468kg-CO_2/ℓ
Gasoline	2.3609kg-CO_2/ℓ

CO_2 Emission Conversion Factors from Distribution

Contents	Coefficient
Gasoline	2.32kg-CO_2/ℓ
Light oil	2.62kg-CO_2/kg
LPG	3.00kg-CO_2/ℓ

Definitions

Input Contents	
Electric power	Electricity purchased from electric companies for plant and office use
City gas, LPG	Gas used as energy source at plants and offices
Coke	Coke used as energy source at plants and offices
Petroleum	Heavy fuels, kerosene, light oils, and gasoline used as energy source at plants and offices
Raw materials	Volume of raw materials purchased for manufacturing of products
Water	Service water, industrial water, and underground water used at plants and offices (excluding recycled water)
Chemical substances	Toxic and PRTR Law-designated substances used for manufacturing (including by-products)
Packaging materials	Wood, cardboard, and plastics used for logistics and shipping of packaging materials
Paper	Office paper used at plants and offices

Output Contents	
CO_2	CO_2 emissions resulting from electricity, gas, and fuel use
SOx	SOx emissions resulting from fuel use
NOx	NOx emissions resulting from gas and fuel use
Wastewater	Wastewater from plants and offices
Nitrogen	NOx contained in wastewater from plants and offices
Phosphorous	Phosphorus compounds contained in wastewater from plants and offices
COD	Amount of oxygen used in the oxidation of substances (mainly organic) contained in wastewater from plants and offices
Industrial waste	Waste, as defined by the Waste Disposal and Public Cleansing Law, generated from plants and offices as a result of business activities (excludes substances of value such as sludge, acid waste, alkali waste, and metals)
Recycled	Recycling of raw materials, resources, and energy through reuse, material recycling, and thermal recycling
Intermediate processing by third party	Landfill waste intermediately processed through crushing, incineration, etc.
Direct landfill waste	Landfill waste not intermediately processed through crushing, incineration, etc.
Emissions	Total waste generated, including direct landfill waste, intermediate processing by third party, and recycled waste
CO_2 emissions from logistics operations	CO_2 generated from the transport of finished products from Toyota Industries to the initial customer

ISO 14001 Certification by Toyota Industries and Group Subsidiaries and Affiliates

Category	Plant, Company	Location	Acquisition Date
Toyota Industries domestic plants	Nagakusa	Obu, Aichi	October 1997
	Kariya	Kariya, Aichi	October 1998
	Takahama	Takahama, Aichi	December 1998
	Hekinan	Hekinan, Aichi	November 1999
	Kyowa	Obu, Aichi	January 2000
	Obu	Obu, Aichi	March 2000
	Higashiura*1	Chita-gun, Aichi	March 2003
	Higashichita	Handa, Aichi	March 2003
Domestic subsidiaries and affiliates	TIBC Corporation	Obu, Aichi	January 2000
	Tokyu Co., Ltd.	Niwa-gun, Aichi	November 2001
	ST Liquid Crystal Display Corp.	Chita-gun, Aichi	January 2002
	Nishina Industrial Co., Ltd.	Nagano, Nagano	January 2002
	Tokaiseiki Co., Ltd.	Iwata, Shizuoka	March 2002
	Nagao Kogyo Co., Ltd.	Nagoya, Aichi	October 2002
	Taikoh Transportation Co., Ltd.	Kariya, Aichi	November 2002
	Unica Co., Ltd.	Kiyosu, Aichi	November 2002
	Izumi Machine Mfg. Co., Ltd.	Obu, Aichi	December 2002
	SKE Inc.	Nagoya, Aichi	March 2003
	Altex Co., Ltd.	Hamakita, Shizuoka	September 2003
	Mizuho Industry Co., Ltd.	Nagoya, Aichi	September 2003
	Hara Corporation	Ibi-gun, Gifu	January 2004
	SK Maintenance Inc.	Kariya, Aichi	March 2004
	Iwama Loom Works, Ltd.	Niwa-gun, Aichi	April 2004
	Aichi Corporation	Ageo, Saitama	July 2004
	TOYOTA L&F Shizuoka, Inc.	Shizuoka, Shizuoka	July 2004
	TOYOTA L&F Tokyo Co., Ltd.	Shinagawa, Tokyo	August 2004
	TOYOTA L&F Keiji Co., Ltd.	Kuse-gun, Kyoto	December 2004
	Sun River Co., Ltd.	Suita, Osaka	March 2006

Category	Plant, Company		Location	Acquisition Date
Overseas subsidiaries	Toyota Industrial Equipment Mfg., Inc. (TIEM)		U.S.A.	June 1999
	Michigan Automotive Compressor, Inc. (MACI)		U.S.A.	June 1999
	Toyota Industrial Equipment, S.A. (TIESA)		France	January 2001
	Toyota Industry (Kunshan) Co., Ltd. (TIK)		China	October 2001
	Kirloskar Toyoda Textile Machinery, Ltd. (KTTM)		India	January 2002
	TD Deutsche Klimakomprssor GmbH (TDDK)		Germany	March 2002
	BT Industries AB	BT Products AB	Sweden (PT*2)	November 1997
			Sweden (MT*3)	
		BT Raymond Corporation.	Canada	March 1999
			U.S.A.	February 2001
		BT Prime-Mover, Inc.	U.S.A.	September 2004

* 1 Obu Plant site was undergoing expansion during audit update.
* 2 Powered truck (PT): refers to plant that only manufactures powered trucks.
* 3 Manual truck (MT): refers to plant that only manufactures manual trucks such as hand pallet trucks.

Manufacturing Subsidiaries and Affiliates Included in the Consolidated Performance Data

Category	Company	Established	Capital	Employees	Major Businesses	Headquarters	Website
Domestic	Nishina Industrial Co., Ltd.	1939	100 million yen	253	Manufacture and sales of oil hydraulic equipment (industrial equipment, construction machinery)	Nagano, Japan	
	Tokaiseiki Co,. Ltd.	1939	98 million yen	243	Manufacture and sales of compressor components	Shizuoka, Japan	http://ns.toukai-seiki.co.jp/
	Tokyu Co., Ltd.	1941	135 million yen	292	Manufacture and sales of compressor components and industrial machinery	Aichi, Japan	http://www.tokyu-jp.com/
	Izumi Machine Mfg. Co., Ltd.	1946	150 million yen	480	Manufacture and sales of compressor components, specialized machine tools, friction welding machines, and automotive components	Aichi, Japan	http://www.izumi-mfg.co.jp/izhpeng/e_f_index2.htm
	Hara Corporation	1948	23 million yen	119	Manufacture and sales of textile machinery	Gifu, Japan	
	Iwama Loom Works, Ltd.	1948	49 million yen	71	Manufacture and sales of compressor components, press dies, and textile machinery components	Aichi, Japan	
	Mizuho Industry Co., Ltd.	1950	20 million yen	68	Manufacture and sales of automotive, compressor, and industrial equipment components	Aichi, Japan	
	Aichi Corporation	1962	10,425 million yen	866	Manufacture and sales of aerial work platforms	Saitama Japan	http://www.aichi-corp.jp/
	Nagao Industry Co., Ltd.	1969	31 million yen	92	Manufacture and sales of compressor components	Shizuoka, Japan	
	Unica Co., Ltd.	1974	50 million yen	47	Manufacture and sales of electric tow tractors	Aichi, Japan	http://www.unica-co.com
	Altex Co., Ltd.	1989	200 million yen	70	Manufacture and sales of aluminum die casting (compressor components, etc.)	Aichi, Japan	http://www.altex-tico.co.jp/
	SKE Inc.	1991	80 million yen	75	General engineering of production lines	Aichi, Japan	
	ST Liquid Crystal Display Corp.	1997	23,000 million yen	1,620	Manufacture of LCD panels	Aichi, Japan	http://www.stlcd.co.jp/
	TIBC Corporation	1998	3,250 million yen	139	Manufacture and sales of semiconductor package substrates	Aichi, Japan	http://www.tibc.co.jp/
Overseas	Toyota Industrial Equipment Mfg., Inc. (TIEM)	1988	US$ 60,000,000	728	Manufacture of industrial equipment and its spare parts	Indiana, U.S.A.	
	Michigan Automotive Compressor, Inc. (MACI)	1989	US$ 146,000,000	827	Manufacture of car air-conditioning compressors, pulleys, magnetic clutches	Michigan, U.S.A.	http://www.michauto.com/
	ACTIS Manufacturing, Ltd. LLC (ACTIS)	2001	US$ 2,000,000	40	Remanufacture of compressors for the compressor aftermarket	Texas, U.S.A.	
	BT Industries AB	1946	SEK 560,000,000	8,736	Manufacture and sales of warehouse equipment	Mjölby, Sweden	http://www.bt-industries.com/
	Toyota Industrial Equipment, S.A. (TIESA)	1995	EUR 9,000,000	324	Manufacture of industrial equipment and industrial spare parts	Ancenis, France	
	TD Deutsche Klimakomprssor GmbH (TDDK)	1998	EUR 20,451,000	352	Manufacture of car air-conditioning compressors, pulleys	Germany	
	Toyota Industry (Kunshan) Co., Ltd. (TIK)	1994	US$ 23,000,000	481	Manufacture and sales of foundry parts for automobiles,textile machinery and industrial equipment, manufacture of lift trucks	China	
	Kirloskar Toyoda Textile Machinery, Ltd. (KTTM)	1995	Rs. 2,426,200,000	644	Manufacture and sales of spinning frames and parts, manufacture of automotive parts	India	