

Environmental Data

[P e r i o d] • April, 2021 to March, 2022

[A i r] • Units are as follows: NOx = ppm, PM (particulate matter) = mg/Nm³ • ND: below the minimum determination limit (not detected)

• Values shown in the results column are averages of the results of the measurements.

[W a t e r] • Units are all in mg/L except for pH • pH: hydrogen ion concentration • BOD: Biochemical Oxygen Demand • SS: concentration of suspended solids in water

• ND: below the minimum determination limit (not detected) • Values shown in the results column are averages of the results of the measurements.

[Groundwater] • Units are all in mg/L • ND: below the minimum determination limit (not detected).

[PRTR*Data] • Units are in kg • Values less than 1kg are rounded up if ≥0.5 and down if 0.5. There are some cases in which values for total volume and volume handled are not in agreement.

Data for use of resources /Volume emitted • Units are: t/year for waste, t-CO₂/year for greenhouse gas and 10,000m³/year for water.

*Pollutant Release and Transfer Register (the registration system monitoring emissions of substances that pollute the environment and moves/transfers of them)

Data on Main Domestic Plants : Toyoda Gosei Co., Ltd.

Haruhi Plant

1 Haruhinagahata
Kiyosu, Aichi, Japan
452-8564

Main Products

• Functional Parts

Air (Air Pollution Control Law, prefectural regulations, etc.)

Item measured	Regulation value	Result
Dust	Boilers (city gas)	0.1
	Co-generation (city gas)	0.05
NOx	Boilers (city gas)	150
	Co-generation (city gas)	600

Groundwater

Item measured	Environmental Standard	Result
Trichloroethylene	0.03	ND~0.01
Cis-1,2-Dichloroethylene	0.04	ND~0.01

■ No violations of laws, etc. ■ No complaints

PRTR Data

Substance name	Substance number (item number)	Amount handled	Volume emitted			Volume moved		Volume recycled	Total removed (processed)	Total consumed (products)
			Into the air	Into bodies of water	Into the ground	Volume moved via sewers	Volume moved as waste			
2-Imidazolidin thionate	42	1,546	0	0	0	0	232	0	0	1,314
Xylene	80	1,051	596	0	0	0	148	307	0	0
Thiram	268	2,666	0	0	0	0	144	0	0	2,522

Data for use of resources/volume emitted

Category	Result	
Waste	Volume generated	1,399
	Volume emitted	525
	Final volume disposed	0
Greenhouse gas	CO ₂ emissions	12,479
Water	Volume used	21.2

Water (Water Pollution Control Law, prefectural regulations, etc.)

Item measured	Regulation value	Result
pH	5.8~8.6	7.5
BOD (Biochemical Oxygen Demand)	25	5.2
SS	30	2.4
Oil content	5	ND
Total nitrogen	120	1.4
Total phosphorus	16	0.5
Thiram	0.06	ND

Morimachi Plant

1310-128
Mutsumi, Mori,
Shuchi, Shizuoka,
Japan
437-0213

Main Products

• Weatherstrips
• Functional Parts

Air (Air Pollution Control Law, prefectural regulations, etc.)

Item measured	Regulation value	Result
Dust	Boilers (heavy oil)	0.1
NOx	Boilers (heavy oil)	120

■ No violations of laws, etc. ■ No complaints

PRTR Data

Substance name	Substance number (item number)	Amount handled	Volume emitted			Volume moved		Volume recycled	Total removed (processed)	Total consumed (products)
			Into the air	Into bodies of water	Into the ground	Volume moved via sewers	Volume moved as waste			
Antimony and its compounds	31	5,788	0	0	0	0	289	58	0	5,441
2-Imidazolidin thionate	42	3,248	0	0	0	0	130	130	0	2,989
Ethylbenzene	53	4,866	3,270	0	0	0	603	759	0	234
Xylene	80	5,837	3,946	0	0	0	748	898	0	244
Disulfiram	259	1,168	0	0	0	0	63	0	0	1,105
Thiuram	268	6,527	0	0	0	0	352	0	0	6,174
Toluene	300	25,816	11,986	0	0	0	5,203	8,086	0	541
Jiram	328	2,610	0	0	0	0	104	104	0	2,401
Methylenebis (4,1-phenylene) = diisocyanate	448	3,345	0	0	0	0	37	0	0	3,308
2-Mercaptobenzothiazole	452	21,285	0	0	0	0	1,149	0	0	20,136

Data for use of resources/volume emitted

Category	Result	
Waste	Volume generated	3,619
	Volume emitted	2,603
	Final volume disposed	0
Greenhouse gas	CO ₂ emissions	21,547
Water	Volume used	12.2

Water (Water Pollution Control Law, prefectural regulations, etc.)

Item measured	Regulation value	Result
pH	5.8~8.6	7.4
BOD (Biochemical Oxygen Demand)	25	4.7
SS	50	5.16
Oil content	5	ND
Thiram	0.06	ND
Zinc	2	0.16

Heiwacho Plant

710 Origuchi, Shimomiyake, Heiwa, Inazawa, Aichi, Japan 490-1312

Main Products

- Functional Parts
- Safety System Products
- Optoelectronic Products

■ Air (Air Pollution Control Law, prefectural regulations, etc.)

Item measured	Regulation value	Result
Dust	Boilers (heavy oil)	0.15
	Boilers (city gas)	0.05
	Co-generation (city gas)	0.05
NOx	Boilers (heavy oil)	140
	Boilers (city gas)	120
	Co-generation (city gas)	200

■ No violations of laws, etc. ■ No complaints

■ Data for use of resources / volume emitted

Category	Result	
Waste	Volume generated	1,756
	Volume emitted	354
	Final volume disposed	0
Greenhouse gas	CO ₂ emissions	17,126
	PFC emissions	190
	HFC emissions	31
Water	Volume used	10.8

■ Water (Sewerage Law, prefectural regulations, etc.)

Item measured	Regulation value	Result
pH	5~9	7.3
BOD (Biochemical Oxygen Demand)	600	89
SS	600	56.3
Oil content	30	4.1
Total nitrogen	240	20.2
Total phosphorus	32	1.8
Fluorine	8	0.08

Inazawa Plant

1 Komeyasakai, Kitajima, Inazawa, Aichi, Japan 492-8542

Main Products

- Interior and Exterior Parts

■ Air (Air Pollution Control Law, prefectural regulations, etc.)

Item measured	Regulation value	Result
NOx	Boilers (city gas)	150
	Co-generation (city gas)	600

■ Groundwater

Item measured	Environmental Standard	Result
Trichloroethylene*1	0.03	ND
Cis-1,2-Dichloroethylene*1	0.04	ND ~ 0.01

*1 Substances that have no record of being used.

■ No violations of laws, etc. ■ No complaints

■ Water (Water Pollution Control Law, prefectural regulations, etc.)

Item measured	Regulation value	Result
pH	5.8~8.6	7.1
BOD (Biochemical Oxygen Demand)	25	7.2
SS	30	1.9
Oil content	5	ND
Total nitrogen	120	22.9
Total phosphorus	16	0.78
Hexavalent chromium	0.5	ND
Total chromium	2	0.05
Copper	1	0.17
Fluorine	15	0.10
Boron	30	3

■ PRTR Data

Substance name	Substance number (item number)	Amount handled	Volume emitted			Volume moved		Volume recycled	Total removed (processed)	Total consumed (products)
			Into the air	Into bodies of water	Into the ground	Volume moved via sewers	Volume moved as waste			
Ethylbenzene	53	5,640	3,021	0	0	0	898	395	0	1,326
Xylene	80	6,771	3,815	0	0	0	992	474	0	1,489
Chromium and trivalent chromium compounds	87	3,863	0	31	0	0	3,059	0	0	773
Hexavalent chromium compounds	88	4,002	0	0	0	0	0	0	4,002	0
Copper water-soluble salts (excluding complex salts)	272	5,602	0	56	0	0	0	0	5,546	0
Toluene	300	32,730	19,409	0	0	0	4,376	2,291	0	6,654
Nickel	308	88,323	0	0	0	0	0	0	88,323	0
Nickel compounds	309	90,688	0	18	0	0	11,771	0	0	78,898
Perammonium diammonium sulfate	395	4,900	0	0	0	0	0	0	4,900	0
Boron compound	405	1,603	0	16	0	0	1,587	0	0	0

■ Data for use of resources / volume emitted

Category	Result	
Waste	Volume generated	2,064
	Volume emitted	934
	Final volume disposed	0
Greenhouse gas	CO ₂ emissions	18,270
Water	Volume used	43.7

Bisai Plant

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Higashishimoshiro,
Meichi, Ichinomiya,
Aichi, Japan
494-8502

Main Products

- Interior and Exterior Parts
- Safety System Products

■ Air (Air Pollution Control Law, prefectural regulations, etc.)

Item measured	Regulation value	Result
Dust	Boilers (city gas)	0.1
	Co-generation (city gas)	0.05
NOx	Boilers (city gas)	150
	Co-generation (city gas)	600

■ No violations of laws, etc. ■ No complaints

■ PRTR Data

Substance name	Substance number (item number)	Amount handled	Volume emitted			Volume moved		Volume recycled	Total removed (processed)	Total consumed (products)
			Into the air	Into bodies of water	Into the ground	Volume moved via sewers	Volume moved as waste			
Ethylbenzene	53	8,114	4,868	0	0	0	1,055	568	0	1,623
Xylene	80	9,463	5,678	0	0	0	1,230	662	0	1,893
1,3,5-Trimethylbenzene	297	1,631	979	0	0	0	212	114	0	326
Toluene	300	33,669	20,277	0	0	0	4,390	2,334	0	6,668
Methylenebis (4,1-phenylene) = diisocyanate	448	106,588	0	0	0	0	1,172	0	0	105,415

■ Data for use of resources / volume emitted

Category	Result	
Waste	Volume generated	954
	Volume emitted	276
	Final volume disposed	0
Greenhouse gas	CO ₂ emissions	15,179
	SF ₆ emissions	0
Water	Volume used	6.9

■ Water (Sewerage Law, prefectural regulations, etc.)

Item measured	Regulation value	Result
pH	5.7~8.7	7.2
BOD (Biochemical Oxygen Demand)	300	56.9
SS	300	37.8
Oil content	30	4.5

Seto Plant

141 Sosaku,
Seto, Aichi, Japan
489-0843

Main Products

- Interior and Exterior Parts

■ Air (Air Pollution Control Law, prefectural regulations, etc.)

Item measured	Regulation value	Result
Dust	Boilers (kerosene)	0.2
	Boilers (heavy oil)	0.1
NOx	Boilers (kerosene)	0.2
	Boilers (heavy oil)	150

■ No violations of laws, etc. ■ No complaints

■ PRTR Data

Substance name	Substance number (item number)	Amount handled	Volume emitted			Volume moved		Volume recycled	Total removed (processed)	Total consumed (products)
			Into the air	Into bodies of water	Into the ground	Volume moved via sewers	Volume moved as waste			
Toluene	300	2,588	1,553	0	0	0	336	181	0	518
Methylenebis (4,1-phenylene) = diisocyanate	448	26,135	0	0	0	0	2,613	0	0	23,521

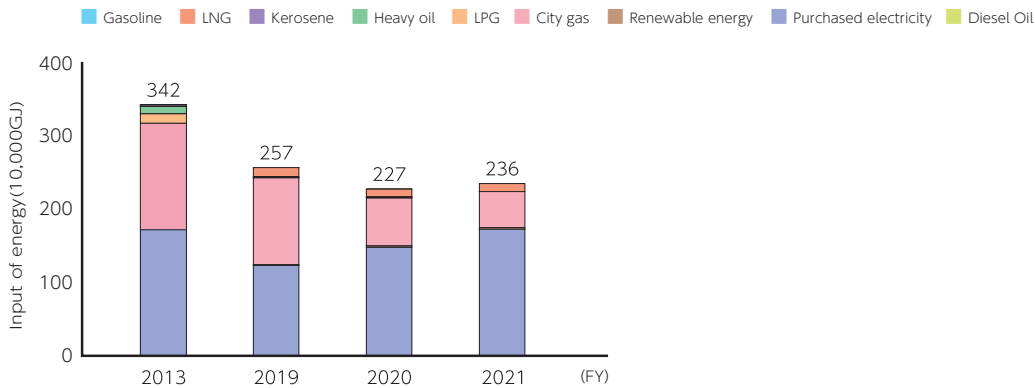
■ Data for use of resources / volume emitted

Category	Result	
Waste	Volume generated	449
	Volume emitted	232
	Final volume disposed	0
Greenhouse gas	CO ₂ emissions	4,349
Water	Volume used	1.7

■ Water (Water Pollution Control Law, prefectural regulations, etc.)

Item measured	Regulation value	Result
pH	5.8~8.6	7.32
BOD (Biochemical Oxygen Demand)	20	0.5
SS	20	0
Total nitrogen	10	1.5
Total phosphorus	4	0.02

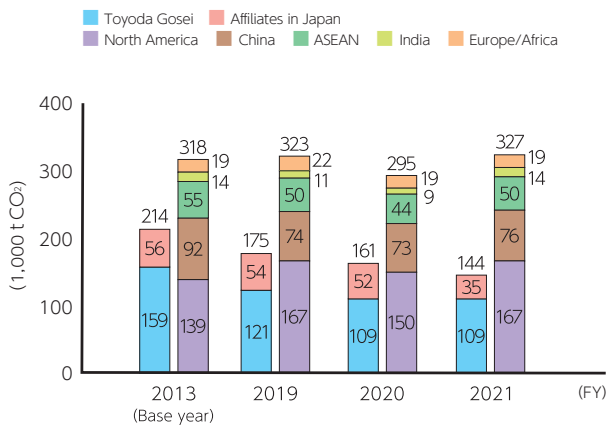
Input of energy : Toyoda Gosei Co., Ltd.



Data on CO₂ Emissions

These data may differ in parts from the data in the Toyoda Gosei Report, as they include data from a larger number of companies

Data on CO₂ Emissions (Scope 1, 2)



CO₂ emissions factors in Japan

Emission factor by electric power company (for the calculation of greenhouse gas emissions of specified emitters)—2018 results

January 7, 2020 Ministry of the Environment announcement: Adjusted emissions factors "CO₂ emissions factors by menu (residual error)"

List of calculation methods/emissions factors in calculations, reports, public announcements

City gas is data published by companies

CO₂ emissions factors in other countries

"CO₂ Emissions from Fuel Combustion," 2018 edition, IEA, Paris, France (used in 2016 conversion factor)

2017 Annual Emission Reduction Project China Regional Grid Baseline Emission Factors (average of EFgrid, OM, y and EFgrid, BM, y)

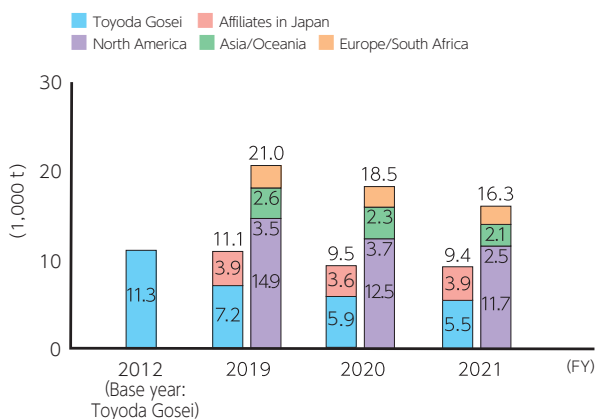
Data published by power companies

IPCC 2006, 2006 IPCC Guidelines for National Greenhouse Gas Inventories, Prepared by the National Gas Inventories Programme, Eggleston H.S., Buendia L., Miwa K., Ngara T. and Tanabe K. (eds).
Published: IGES, Japan.

Data on Waste Volume and Water Use

These data may differ in parts from the data in the Toyoda Gosei Report, as they include data from a larger number of companies

Waste volume



Water use

