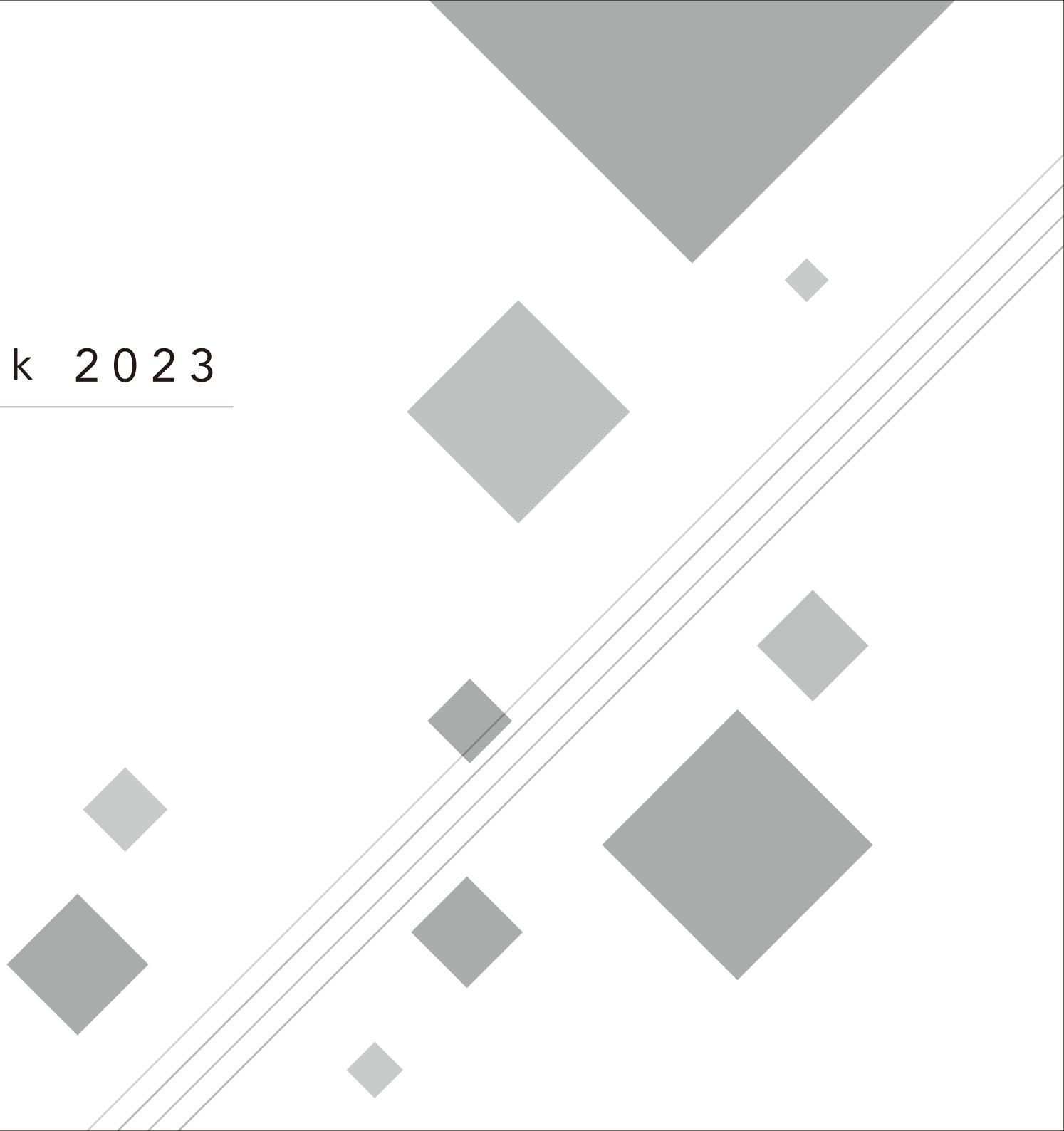


TOHO GAS GROUP
ESG Factbook 2023



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☑ indicates the Japanese version of the data assured by independent practitioner, Deloitte Tohmatsu Sustainability Co., Ltd.

Boundary: Scope of data collection

		Unit	FY2022	Remarks
Number of companies covered		Companies	23	The scope of aggregate total for subsidiaries covers, in principle, the following domestic consolidated subsidiaries: Toho Gas Network Co., Ltd., Mizushima Gas Co., Ltd., Toho Liquefied Gas Co., Ltd., Toeki Kyokyu Center Co., Ltd., Toho Gas Engineering Co., Ltd., Toho Gas Techno Co., Ltd., Toho Gas Living Co., Ltd., Gas Living Mie Co., Ltd., Toho Gas Safety Life Co., Ltd., Toho Gas Customer Service Co. Ltd., Toeki Customer Service Co. Ltd., Toho Reinetsu Co., Ltd., Toho Gas Information System Co., Ltd., Toho Service Co., Ltd., Toho Real Estate Co., Ltd., Toho LNG Shipping Co., Ltd., Waseda Gas Co., Ltd., Yokkaichi Air Conditioning Engineering Co., Ltd., Yamasa Sohgyou Co., Ltd., Yamasa yu-land Ltd., Inuyama Gas Service Co., Ltd., Sirius SolarJapan 63 GK Overseas consolidated subsidiaries are not included in the calculation as they have small environmental impact and are difficult to acquire quantitative data. Scope of coverage includes Inuyama Gas Service Co., Ltd., Minori Gas Co., Ltd., and Sugiyama, Ltd. for only the following items: 1. Raw Materials Usage and Sales Amount of Key Products: "Resources for LPG - LPG - Subsidiaries" and "LPG sales -Subsidiaries" 3. Emissions from Procurement and Customer Use: "Greenhouse gases (CO ₂ equivalent) from procurement - LPG - Subsidiaries" and "CO ₂ emissions from customer use - LPG - Subsidiaries" (As of end of March 2023)
Scope of coverage with respect to total CO ₂ emissions amounts (coverage rate)	Toho Gas	%	100	
	Subsidiaries (domestic)	%	100	
	Subsidiaries (overseas)	%	0	

1. Raw Materials Usage and Sales Amount of Key Products

			Unit	FY2018	FY2019	FY2020	FY2021	FY2022
City gas raw materials *1	LNG	Total	Thousand tonnes	3,050	2,977	2,834	2,827	2,664 ☑
		Toho Gas		3,005	2,932	2,791	2,783	2,617 ☑
		Subsidiaries		45	46	43	45	47 ☑
	LPG	Total		97	110	109	144	150 ☑
		Toho Gas		96	109	108	143	149 ☑
		Subsidiaries		0.6	0.8	0.9	0.9	1.0 ☑
Resources for LPG	LPG Subsidiaries *2		451	486	462	486	475 ☑	
City gas sales *1	Total		Million m ³	3,924	3,881	3,701	3,709	3,550 ☑
	Toho Gas			3,868	3,824	3,647	3,654	3,491 ☑
	Subsidiaries *3			55	56	54	56	59 ☑
LPG sales	Subsidiaries *2	Thousand tonnes	451	486	462	486	475 ☑	
Electricity sales	Toho Gas	Million kWh	575	990	1,602	2,126	2,369 ☑	
Heat sales	Toho Gas	Thousand GJ	393	399	359	371	375 ☑	

*1 Until FY2019, calculations covered amounts accompanying sales of city gas, but from FY2020, this has been changed so that calculations cover amounts including LNG sales amounts. In keeping with this, the change has been retroactively applied to the calculations for the data for FY2019 and earlier has been, and the values have been revised.

*2 Scope of coverage includes Inuyama Gas Service Co., Ltd., Minori Gas Co., Ltd., and Sugiyama, Ltd.

*3 City gas calorific value at Subsidiaries: 46 MJ/Nm³.

Note: Numbers in table may not sum due to rounding

2. Environmental Load Due to Business Activities

(1) Energy Consumption

			Unit	FY2018	FY2019	FY2020	FY2021	FY2022	
Purchased electricity	Total *1		Thousand kWh	144,022	142,181	122,224	119,306	118,202	☑
	Toho Gas	Total *1		124,796	120,372	107,481	104,760	101,843	☑
		City gas plants, etc.		89,622	84,798	73,779	70,392	69,714	☑
		District heating and cooling		20,125	21,359	19,753	19,692	20,019	☑
		Offices, etc.		15,792	14,456	14,372	15,420	12,595	☑
	Subsidiaries			20,185	22,764	15,621	15,894	17,736	☑
City gas	Total		Thousand Nm ³	17,321	16,721	15,655	15,068	15,850	☑
	Toho Gas	Total		16,732	16,098	15,199	14,590	14,261	☑
		City gas plants, etc.		1,982	2,045	1,839	1,796	1,814	☑
		District heating and cooling		10,082	10,421	9,258	9,090	8,754	☑
		Offices, etc.		4,669	3,632	4,102	3,704	3,692	☑
	Subsidiaries			589	623	457	477	1,589	☑
Vehicular fuel	Total		GJ	107,296	127,231	122,945	115,311	109,030	☑
	Toho Gas			27,838	27,183	21,443	20,003	9,616	☑
	Subsidiaries			79,459	100,048	101,501	95,308	99,414	☑
Other energy	Total *1		GJ	461,152	391,335	578,475	1,009,628	846,853	☑
	Toho Gas			442,696	357,128	545,136	984,189	829,658	☑
	Subsidiaries			50,507	66,418	63,287	64,085	63,889	☑
Amount of energy consumption - total	Total *1		GJ	1,901,877	1,818,503	1,879,030	2,275,978	2,146,317	
	Toho Gas			1,672,740	1,542,042	1,637,455	2,037,893	1,847,637	
	Subsidiaries			229,137	276,461	241,575	238,085	298,680	

(2) Emissions into Atmosphere

			Unit	FY2018	FY2019	FY2020	FY2021	FY2022	
CO ₂ emissions	Total *1		tonnes-CO ₂	145,527	138,890	127,872	140,514	134,476	☑
	Toho Gas	Total *1		127,106	117,631	111,400	125,844	116,795	☑
		City gas plants, etc.		68,830	59,940	61,176	79,169	71,411	☑
		District heating and cooling		35,792	39,158	32,772	30,148	31,070	☑
		Offices, etc.		23,034	18,722	17,674	16,887	14,552	☑
	Subsidiaries			20,644	23,436	18,456	16,902	20,240	☑
Methane (CH ₄) emissions *2	Toho Gas	City gas plants, etc.(manufacturing facilities)	tonnes-CO ₂ e	184	315	233	237	253	☑
	Subsidiaries			Pipeline construction, etc.	284	4,451	175	654	1,360
Fluorocarbons (HCFCs and HFCs) emissions *3	Toho Gas		tonnes	162	221	283	974	340	☑
NO _x emissions	Toho Gas			32	41	40	44	35	☑
SO _x emissions	Total		tonnes	0	0	0	0	0	☑
	Toho Gas			0	0	0	0	0	☑
	Subsidiaries			0	0	0	0	0	☑
VOC	Toho Gas	Amount handled	tonnes	0.0	0.2	0.2	0.2	0.1	☑
		Amount discharged		0.0	0.2	0.2	0.2	0.1	☑
		Amount moved		0	0	0	0	0	☑
	Subsidiaries	Amount handled		-	-	-	-	0.4	☑
		Amount discharged		-	-	-	-	0.4	☑
		Amount moved		-	-	-	-	0	☑

(3) Water Withdrawal (Water Consumption)

			Unit	FY2018	FY2019	FY2020	FY2021	FY2022	
Water withdrawal (water consumption)	Toho Gas	Total	Thousand m ³	347,384	301,363	264,028	252,087	226,410	
		Total		347,242	301,145	263,843	251,897	226,248	
	Tapwater (Municipal potable water)	450		354	363	363	374	<input checked="" type="checkbox"/>	
	Industrial water	667		770	700	741	738	<input checked="" type="checkbox"/>	
	Well water	0		1	3	2	2	<input checked="" type="checkbox"/>	
	Seawater *4	346,125		300,020	262,777	250,792	225,134	<input checked="" type="checkbox"/>	
	Surface water from rivers,ponds, and lakes	0		0	0	0	0		
	Quarry water	0		0	0	0	0		
	Rainwater	0		0	0	0	0		
	External wastewater	0		0	0	0	0		
	Subsidiaries	Total		142	218	184	189	162	
	Tapwater (Municipal potable water)	133		132	117	124	122	<input checked="" type="checkbox"/>	
	Industrial water	9		14	2	2	2	<input checked="" type="checkbox"/>	
	Well water	0		71	65	63	39	<input checked="" type="checkbox"/>	
	Seawater *4	0		0	0	0	0	<input checked="" type="checkbox"/>	
	Surface water from rivers,ponds, and lakes	0		0	0	0	0		
	Quarry water	0		0	0	0	0		
	Rainwater	0		0	0	0	0		
	External wastewater	0		0	0	0	0		

(4) Discharge, Etc., to Water Systems

			Unit	FY2018	FY2019	FY2020	FY2021	FY2022	
Water discharge	Toho Gas	Total	Thousand m ³	347,194	301,176	263,869	251,934	226,248	
		Total		347,052	300,958	263,685	251,745	226,086	
	Sewer *5	279		224	173	159	172	<input checked="" type="checkbox"/>	
	River	98		91	88	94	91	<input checked="" type="checkbox"/>	
	Ocean *4	346,675		300,643	263,423	251,491	225,823	<input checked="" type="checkbox"/>	
	Subsurface and well water	0		0	0	0	0		
	External water treatment amounts	0		0	0	0	0		
	Subsidiaries	Total		142	218	184	189	162	
	Sewer *5	124		198	159	166	144	<input checked="" type="checkbox"/>	
	River	0		0	24	22	17	<input checked="" type="checkbox"/>	
	Ocean *4	18		20	2	1	2	<input checked="" type="checkbox"/>	
	Subsurface and well water	0		0	0	0	0		
	External water treatment amounts	0		0	0	0	0		
Beneficial usage (amount of evaporation)	Total		190	187	158	153	162		
	Toho Gas	Beneficial usage (amount of evaporation)	190	187	158	153	162		
	Subsidiaries	Beneficial usage (amount of evaporation)	0	0	0	0	0		
COD load	Toho Gas	tonnes	0.2	0.2	0.2	0.2	0.2	<input checked="" type="checkbox"/>	

(5) Waste

			Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Industrial waste	Waste generated (Included in totals: amount of hazardous waste materials generated *6)	Total	tonnes	36,991	37,015	43,272	40,642	38,593
			(tonnes)	(17)	(32)	(9)	(8)	(2)
		Toho Gas		1,353	1,264	1,271	1,127	580
		Subsidiaries		35,638	35,751	42,001	39,515	38,013
	Waste reduced	Total	tonnes	1,694	1,605	2,782	3,379	2,426
		Toho Gas		136	141	189	195	110
		Subsidiaries		1,558	1,464	2,593	3,184	2,316
	Waste recycled	Total	tonnes	34,458	34,588	39,532	35,857	34,700
		Toho Gas		1,168	1,083	1,028	896	456
		Subsidiaries		33,290	33,505	38,504	34,961	34,244
	Weight reduction and recycling rate	Total	%	98	98	98	97	96
		Toho Gas		96	97	96	97	98
		Subsidiaries		98	98	98	97	96
	Final disposal waste	Total	tonnes	839	822	958	1,406	1,467
Toho Gas			49	40	54	36	14	
Subsidiaries			790	782	904	1,370	1,453	
General waste	Waste generated	Toho Gas	tonnes	521	572	550	489	465
	Waste recycled		tonnes	427	462	442	398	373
	Recycling rate		%	82	81	80	81	80
	External disposal waste		tonnes	94	110	108	91	91

*1 Because portions corresponding to double counting from intra-group exchanges are excluded, figures may not add up to totals.

*2 Calculations cover the amounts of emissions in the manufacture and supply of city gas.

*3 Calculated the gases regulated by the Act on Rational Use and Appropriate Management of Fluorocarbons.

*4 Since FY2017, the amounts of water consumption and discharge include seawater.

*5 The amount of water discharged to sewers is calculated with deductions of sewer reduction and exemption amounts, which evaporated at facilities.

*6 Specially controlled industrial waste regulated by the Cabinet Order for the Enforcement of the Waste Management and Public Cleansing Act.

Notes: ·CO₂ emissions at city gas plants, etc., include the portion for the electricity business.

·Because the scope of coverage has been revised to a consolidated basis, the figures up through FY2019 include Chita Tansan Co., Ltd., but Chita Tansan is not included from FY2020 and after.

·Numbers in table may not sum due to rounding.

3.Emissions from Procurement and Customers Use

			Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Greenhouse gases (CO ₂ equivalent) from procurement	City gas *1	Total	Ten thousand tonnes-CO ₂	170	168	160	161	153
		Toho Gas		152	149	142	142	134
		Subsidiaries		2	2	2	2	2
	LPG	Subsidiaries *2		15	17	16	17	16
CO ₂ emissions from customer use	City gas *1	Total	996	996	950	959	920	
		Toho Gas	847	838	799	801	765	
		Subsidiaries	12	12	12	12	13	
	LPG	Subsidiaries *2	135	146	139	146	143	

*1 Until FY2019, calculations covered amounts accompanying sales of city gas, but from FY2020, this has been changed so that calculations cover amounts including LNG sales amounts. In keeping with this, the change has been retroactively applied to the calculations for the data for FY2019 and earlier has been, and the values have been revised.

*2 Scope of coverage includes Inuyama Gas Service Co., Ltd., Minori Gas Co., Ltd., and Sugiyama, Ltd.

Note: Numbers in table may not sum due to rounding

4.Details of Greenhouse Gas Emissions (SCOPE 1, 2 and Toho Gas non-consolidated*1)

		Unit	FY2022
Greenhouse gas emissions - SCOPE 1 and 2 totals		tonnes-CO ₂ e	117,550 <input checked="" type="checkbox"/>
Scope1 totals		tonnes-CO ₂ e	73,345 <input checked="" type="checkbox"/>
	1 CO ₂ emissions (energy source)	tonnes-CO ₂	72,590
	2 CO ₂ emissions (non-energy source)	tonnes-CO ₂	0
Scope1	3 Methane (CH ₄)emissions *2	tonnes-CO ₂ e	253
	4 N ₂ O emissions	tonnes-CO ₂ e	162
	5 Fluorocarbons (HCFCs, HFCs) *3	tonnes-CO ₂ e	340
	6 Perfluorocarbon (PFCs)emissions	tonnes-CO ₂ e	0
	7 SF ₆ emissions	tonnes-CO ₂ e	0
	8 NF ₃	tonnes-CO ₂ e	0
Scope2	CO ₂ emissions	tonnes-CO ₂	44,206 <input checked="" type="checkbox"/>

*1 The disclosure scope of this aggregate table pertains only to quantities of Toho Gas non-consolidated.

Also, the subject and calculation methods are not based on the the Act on Promotion of Global Warming Countermeasures (hereinafter referred to as the "Global Warming Act"), but adhere to the Calculation Standards for Major Environmental Data.

*2 Calculations cover the amounts of emissions in the manufacture of city gas.

*3 Calculations cover the gases covered by the Act on Rational Use and Appropriate Management of Fluorocarbons (hereinafter referred to as the "Fluorocarbon Emission Control Act").

Notes: Due to rounding of decimals, totals may not always match.

Calculation Standards for Main Environmental Data
 <Business Activities of the Toho Gas Group>

	Item	Calculation method
Atmosphere and water quality	CO ₂ emissions	CO ₂ emissions factors are as shown in the table below. Formula: CO ₂ emissions[tonnes-CO ₂] = (Purchased electricity, fuel consumption, purchased heat x CO ₂ emission factor) [tonnes-CO ₂] - (Credit) [tonnes-CO ₂]
	Methane emissions	We calculated emission from manufacturing facilities at city gas plants, emission associated with pipeline constructions, and leakage emission due to breakage, etc. 1 Emission from manufacturing facilities at city gas plants Formula: Methane emission [tonnes-CO ₂ e] = Gas vented volume per respective facility (representative value) [m ³ /vent] x Number of venting x Methane concentration [%] x 1/100 [1%] x 16 [g] / 22.4 [L] x 1,000 [L/m ³] x 1/1,000,000 [tonnes/g] x Global warming potential [tonnes-CO ₂ e/tonne] 2 Emission associated with pipeline constructions Formula: Methane emission [tonnes-CO ₂ e] = Number of annual construction projects [projects/year] x Mean pipeline volume [m ³ /project] x 50 [%]* x Methane concentration [%] x 1/100 [1%] x 16 [g] / 22.4 [L] x 1,000 [L/m ³] x 1/1,000,000 [tonnes/g] x Global warming potential [tonnes-CO ₂ e/tonne] * It is assumed that the gas of 50% of the pipeline volume is concomitantly released to the air during gas replacement related to construction. 3 Leakage emission due to leakage, etc. Formula: Methane emission [tonnes-CO ₂ e] = Number of leakage incidents [incidents/year] x Leakage amount per unit time [m ³ /min] x Leakage time per incident [min/incident] x Methane concentration [%] x 1/100 [1%] x 16 [g] / 22.4 [L] x 1,000 [L/m ³] x 1/1,000,000[tonnes/g] x Global warming potential [tonnes-CO ₂ e/tonne] * The global warming potential (GWP) is referenced from the Global Warming Act.
	Fluorocarbons emissions	We calculated leaked gases from equipment regulated by the Fluorocarbon Emission Control Act. Formula: Leaked fluorocarbons [tonnes-CO ₂ e] = (Fluorocarbon filled [tonnes] - Recovered fluorocarbon [tonnes]) x Global warming potential [tonnes-CO ₂ e/tonne] * The global warming potential (GWP) is referenced from the Global Warming Act.
	NO _x emissions	The scope of coverage is production equipment in facilities regulated by the Air Pollution Control Act (excluding emergency facilities). Formula: Emissions [tonnes] = Gas emissions at target facilities [m ³] x NO _x concentration [ppm] x 1/1,000,000 [1/ppm] x 46 [g] / 22.4 [L] x 1/1,000,000 [tonnes/g] x 1,000 [L/m ³]
	SO _x emissions	The scope of coverage is gasoline and diesel oil consumed by vehicles and plant equipment. Formula: Emissions [tonnes] = Fuel consumption [kL] x Vweight density [tonnes/kL] x Sulfur content rate [ppm] x 64 [g] / 32 [g] x 1/1,000,000 [1/ppm]
	N ₂ O	The scope of coverage is usage of fuel in facilities and machinery for fuel combustion. Formula: N ₂ O emissions (tonnes-CO ₂ e) = Fuel usage (thousand Nm ³) x Unit heat value (GJ/thousand Nm ³) x Emission factor per unit of equipment (tonnes-N ₂ O/GJ) x Global warming potential (tonnes-CO ₂ e/tonnes-N ₂ O) Note: The global warming potential (GWP) is referenced from the Global Warming Act.
	SF ₆	We calculated amounts of leakage from SF ₆ -filled transformers and other such equipment. Formula: Leakage amount (tonnes-CO ₂ e) = (SF ₆ filled (tonnes) - SF ₆ recovered (tonnes)) x Global warming potential (tonnes-CO ₂ e/tonnes) Note: The global warming potential (GWP) is referenced from the Global Warming Act.
	VOC	The scope of coverage is fully painted LNG tanks and gas holders of a size based on the Pollutant Release and transfer Register system defined by the Act on Confirmation, Etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management thereof. Formula: Emissions [tonnes] = Paint consumption [tonnes] x VOC content rate [%]
	COD load	The scope of coverage is water quality facilities subject to laws, regulations, and agreements regulating production facilities. Formula: COD load [tonnes]= Water discharged from target facilities [m ³] x COD concentration [mg/L] x 1,000 [L/m ³] x 1/1,000,000,000 [tonnes/mg]
	Water withdrawal (water consumption)	·Total amount of tapwater, industrial water, and well water withdrawn ·Seawater withdrawn: total amount of withdrawal by gasification seawater pumps in city gas plants. Formula: Seawater withdrawn [thousand m ³] = Pump rated capacity [m ³ /h] x Operation time [h] x 1/1,000 [thousand m ³ /m ³]
	Water discharge	Water discharge is calculated by subtracting the amount of sewer reduction and exemption from withdrawn water. Formula: Water discharge = Water withdrawal - Sewer reduction and exemption
	Beneficial usage (amount of evaporation)	As the beneficial usage, the scalable loss of water (the amount of sewer reduction and exemption) from regional Energy Centers is used. Basis: Notification of sewer reduction and exemption amount

Calculation Standards for Main Environmental Data
 <Business Activities of the Toho Gas Group>

Item		Calculation method
Waste	Waste generated	·Amount generated based on manifests or amount measured by waste processor
	Waste reduced	·Reduction of water and so on as a result of incineration, dehydration, and other processes at intermediate processing facilities Reported values from industrial waste processors are used as reduction rates for sludge and rubble (asphalt, concrete, and the like from gas pipeline construction) of Toho Gas, whereas figures from the Japan Environmental Management Association for Industry "Recycle Data Book 2022" are used as reduction rates of other materials. Formula: Waste reduced = Waste generated x Reduction rate
	Waste recycled	·Waste recycled for reuse as raw materials through sorting and so on at intermediate processing facilities Reported values from industrial waste processors are used as recycling rates for sludge and rubble (asphalt, concrete, and the like from gas pipeline construction) of Toho Gas, whereas figures from the Japan Environmental Management Association for Industry "Recycle Data Book2022" are used as recycling rates of other materials. Formula: Waste recycled = Waste generated x Recycling rate
	Weight reduction and recycling rate	·the ratio of the reduced or the recycled at intermediate processing facilities to the generated Formula: Weight reduction and recycling rate = (Waste reduced + Waste recycled) / Waste generated
	Final disposal waste	Formula: Final disposal waste = Waste generated - (Waste reduced + Waste recycled)

<Emissions from Procurement and Customers Use>

Item		Calculation method
Atmosphere	Greenhouse gas emissions	Procurement Formula: Greenhouse gas emissions = Raw materials usage of LNG (including sales in liquid) and LPG x Greenhouse gas emission factor* *Source: LNG: Japan Gas Association website LPG: Calculated based on "Future Forecast for Life Cycle Greenhouse Gas Emissions of LNG and City Gas 13A" from the Journal of the 26th Annual Meeting of the Japan Society of Energy and Resources (Vol. 28-2, published in 2007) (gross calorific value basis)
	CO ₂ emissions	Customer use CO ₂ emissions factors are as shown in the table below Formula: CO ₂ emissions = City gas sales & LNG sales & LPG sales x CO ₂ emissions factors

CO₂ Emission Factors

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022	
Purchased electricity		tonnes-CO ₂ /thousand kWh	0.472	0.452	0.426	0.379	0.388	Source: ·Figures by electric power company released pursuant to ministerial ordinance under the Global Warming Act. ·In this table, "Chubu Electric Power Miraiz Co., Inc." is listed as an example. ·From FY2018, "adjusted emission factors" are used. ·Toho Gas electricity is considered as self consignment and uses base emission factor from FY2021.
City gas		tonnes-CO ₂ /thousand Nm ³	2.29	2.29	2.29	2.29	2.29	·Calorific value calculated by the Toho Gas's city gas(13A) representative composition(0°C, 1 atmosphere)
Other fuels	LPG (gaseous)	tonnes-CO ₂ /thousand m ³	6.12	6.12	6.12	6.12	6.12	Source: ·Values calculated by multiplying emissions factors pursuant to ministerial ordinance under the Global Warming Act by the reciprocal of LPG's weight density
	LPG (liquid)	tonnes-CO ₂ /thousand ℓ	1.71	1.71	1.71	1.71	1.71	
	LPG	tonnes-CO ₂ /tonne	3.00	3.00	3.00	3.00	3.00	Source: ·Emissions factors pursuant to ministerial ordinance under the Global Warming Act
	LNG	tonnes-CO ₂ /tonne	2.70	2.70	2.70	2.70	2.70	
	Natural gas	tonnes-CO ₂ /thousand Nm ³	2.22	2.22	2.22	2.22	2.22	
	Diesel oil	tonnes-CO ₂ /thousand ℓ	2.58	2.58	2.58	2.58	2.58	
Gasoline	tonnes-CO ₂ /thousand ℓ	2.32	2.32	2.32	2.32	2.32		
Purchased heat	Steam (excluding industrial steam), hot water, and cold water	tonnes-CO ₂ /GJ	0.057	0.057	0.057	0.057	0.057	

For Reference: Appropriate Evaluations of Reductions of CO₂ Due to Reduced Use of Electricity

The amounts of CO₂ that can be reduced by reducing the amount of electricity consumption must be evaluated depending on the power sources (marginal power sources) affected by reduction approaches.

For more information, please refer to the Japan Gas Association website (in Japanese).

<https://www.gas.or.jp/kankyo/taisaku/denki/>

Unit Calorific Values

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022	
City gas		GJ/thousand Nm ³	45.0	45.0	45.0	45.0	45.0	Toho Gas's city gas calorific value (0°C, 1 atmosphere) total calorific value: 45 GJ/thousand Nm ³
Other fuels	LPG	GJ/tonne	50.8	50.8	50.8	50.8	50.8	Source: Unit calorific value pursuant to ministerial ordinance under the Global Warming Act
	LNG	GJ/tonne	54.6	54.6	54.6	54.6	54.6	
	Natural gas	GJ/thousand Nm ³	43.5	43.5	43.5	43.5	43.5	
	Diesel oil	GJ/thousand ℓ	37.7	37.7	37.7	37.7	37.7	
	Gasoline	GJ/thousand ℓ	34.6	34.6	34.6	34.6	34.6	

5.Details of Greenhouse Gas Emissions (SCOPE 1,•2 and SCOPE 1, 2, 3 Totals)

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022	
Greenhouse gas emissions – SCOPE 1 and 2 totals		Total *1	tonnes-CO ₂ e	146,223	143,951	128,633	142,451	136,595
		Toho Gas Total *1	tonnes-CO ₂ e	127,800	122,689	112,158	127,762	117,550
		Subsidiaries	tonnes-CO ₂ e	20,646	23,439	18,458	16,904	21,604
Greenhouse gas emissions – SCOPE 1 and 2, 3 totals		Total	tonnes-CO ₂ e	11,854,362	11,855,945	11,291,342	11,415,355	10,941,176
Scope1	CO ₂ emissions (energy source)	Total	tonnes-CO ₂	65,854	62,353	70,269	94,542	83,749
		Toho Gas Total	tonnes-CO ₂	58,688	52,713	61,103	84,259	72,590
		City gas plants, etc.	tonnes-CO ₂	23,838	19,527	29,103	51,640	43,462
		District heating and cooling	tonnes-CO ₂	22,403	23,134	21,201	22,798	20,047
		Offices, etc.	tonnes-CO ₂	12,447	10,052	10,798	9,821	9,081
		Subsidiaries	tonnes-CO ₂	7,166	9,640	9,166	10,284	11,160
	Methane (CH ₄)emissions *2	Total	tonnes-CO ₂ e	468	4,766	408	891	1,613
		Toho Gas Total	tonnes-CO ₂ e	468	4,766	408	891	253
		City gas plants, etc.	tonnes-CO ₂ e	184	315	233	237	253
		District heating and cooling	tonnes-CO ₂ e	0	0	0	0	0
		Offices, etc.	tonnes-CO ₂ e	284	4,451	175	654	0
		Subsidiaries(pipeline construction, etc.)	tonnes-CO ₂ e	0	0	0	0	1,360
	Fluorocarbons (CFCs, HCFCs, HFCs) *3	Toho Gas Total	tonnes-CO ₂ e	162	221	283	974	340
	Perfluorocarbon (PFCs) emissions	Total	tonnes-CO ₂ e	0	0	0	0	0
		Toho Gas	tonnes-CO ₂ e	0	0	0	0	0
		Subsidiaries	tonnes-CO ₂ e	0	0	0	0	0
	N ₂ O emissions	Total	tonnes-CO ₂ e	65	74	70	56	166
		Toho Gas	tonnes-CO ₂ e	63	71	68	53	162
		Subsidiaries	tonnes-CO ₂ e	2	3	2	3	4
	SF ₆ emissions	Total	tonnes-CO ₂ e	0	0	0	16	0
		Toho Gas	tonnes-CO ₂ e	0	0	0	16	0
		Subsidiaries	tonnes-CO ₂ e	0	0	0	0	0
	Other greenhouse gas emissions	Total	tonnes-CO ₂ e	0	0	0	0	0
Toho Gas		tonnes-CO ₂ e	0	0	0	0	0	
Subsidiaries		tonnes-CO ₂ e	0	0	0	0	0	
Scope2	CO ₂ emissions	Total *1	tonnes-CO ₂	79,673	76,537	57,603	45,971	50,727
		Toho Gas Total *1	tonnes-CO ₂	68,418	64,918	50,297	41,586	44,206
		City gas plants, etc.	tonnes-CO ₂	44,992	40,413	32,073	27,530	27,950
		District heating and cooling	tonnes-CO ₂	13,389	16,024	11,570	7,350	11,023
		Offices, etc.	tonnes-CO ₂	10,587	8,670	6,876	7,066	5,470
		Subsidiaries	tonnes-CO ₂	13,478	13,796	9,290	6,618	9,080
Scope 3 *4	Greenhouse gas emissions	Total	tonnes-CO ₂ e	11,708,138	11,711,994	11,162,709	11,272,904	10,804,581

*1 Because portions corresponding to double counting from intra-group exchanges are excluded, figures may not add up to totals.

*2 Calculations cover the amounts of emissions in the manufacture and supply of city gas.

*3 Calculations cover the gases regulated by the Fluorocarbon Emission Control Act (Toho Gas non-consolidated). CFCs are not used.

*4 Until FY2019, calculations covered amounts accompanying sales of city gas, but from FY2020, this has been changed so that calculations cover amounts of sales of natural gas, including LNG sales amounts.

In keeping with this, the change has been retroactively applied to the calculations for the data for FY2019 and earlier has been, and the values have been revised.

Notes: CO₂ emissions at city gas plants, etc., include the portion for the electricity business.

Numbers in table may not sum due to rounding.

6.Details of Greenhouse Gas Emissions (SCOPE 3) (Totals for Toho Gas and Affiliates)

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Category 1 *1	Purchased goods	tonnes-CO ₂ e	265,839	281,283	266,910	281,525	273,355
Category 2 *1	Capital goods	tonnes-CO ₂ e	59,674	58,637	55,805	56,002	52,946
Category 3 *1	Fuel procurement	tonnes-CO ₂ e	1,117,481	1,100,501	1,047,721	1,045,024	984,638
Category 4 *1	Transportation (upstream)	tonnes-CO ₂ e	296,537	295,689	281,187	286,038	272,461
Category 5	Waste	tonnes-CO ₂ e	2,264	2,143	2,426	3,637	2,394
Category 6	Business travel	tonnes-CO ₂ e	754	806	809	803	790
Category 7	Commuting	tonnes-CO ₂ e	1,790	1,913	1,922	1,908	1,877
Category 8	Leased assets (upstream)	tonnes-CO ₂ e	0	0	0	0	0
Category 9	Transportation (downstream)	tonnes-CO ₂ e	10,665	11,462	10,896	11,467	11,140
Category 10	Product processing	tonnes-CO ₂ e	0	0	0	0	0
Category 11 *1	Product use	tonnes-CO ₂	9,953,134	9,959,561	9,495,034	9,586,501	9,204,979
Category 12	Product disposal	tonnes-CO ₂ e	0	0	0	0	0
Category 13	Leased assets (downstream)	tonnes-CO ₂ e	0	0	0	0	0
Category 14	Franchises	tonnes-CO ₂ e	0	0	0	0	0
Category 15	Investments	tonnes-CO ₂ e	0	0	0	0	0
Other (upstream)		tonnes-CO ₂ e	0	0	0	0	0
Other (downstream)		tonnes-CO ₂ e	0	0	0	0	0
Total		tonnes-CO₂e	11,708,138	11,711,994	11,162,709	11,272,904	10,804,581

*1 Until FY2019, calculations covered amounts accompanying sales of city gas, but from FY2020, this has been changed so that calculations cover amounts including LNG sales amounts. In keeping with this, the change has been retroactively applied to the calculations for the data for FY2019 and earlier has been, and the values have been revised.

Note: No figures are disclosed for the following categories, which are unrelated to our business activities.

- Category 8 Emission amounts involving leased property and other leased assets are fundamentally covered by SCOPE 1 and 2, and so this is not applicable.
- Category 10 The main products Toho Gas sells are energy, and no processing accompanied by CO₂ emissions is performed by other companies, and so this is not applicable.
- Category 12 The main products Toho Gas sells are energy, and because equipment is mainly sold by gas equipment manufacturers, no waste, residue, or the like is generated through use, and so this is not applicable.
- Category 13 The majority of emissions accompanying the use of tenant properties owned by the Toho Gas Group and Toho Gas-owned properties at customer locations are covered by SCOPE 1 and 2 or SCOPE 3 Category 11, and so this is not applicable.
- Category 14 Toho Gas has not implemented a franchise system, and so there are no CO₂ emissions for which this category is applicable.
- Category 15 This category applies to investment businesses and operators that offer financial services, being chiefly private financial institutions (commercial banks, etc.) , and is not
- There are no activities applicable to other matters (upstream or downstream). There are no activities applicable to other matters (upstream or downstream).

<Sources of CO₂ emissions coefficients used>

- Emissions coefficients for production, facilities, liquefaction, and overseas transportation of LNG Website of the Japan Gas Association
<https://www.gas.or.jp/tokucho/>
- Emissions coefficients for production, facilities, and overseas transportation of LPG
LNG and city gas 13A life-cycle greenhouse gas emission forecast from the Journal of the 26th Annual Meeting of the Japan Society of Energy and Resources (Vol. 28-2, published in 2007)
- Emissions coefficients for domestic transportation of LPG
"Life-cycle Inventory Analysis on Fossil-derived Energy Sources in Japan"
(The 353rd Conference of the Japan Society of Energy and Resources, held in May 1999)
- Other key emissions coefficients
"Database of Emissions Unit Values for Calculation of Greenhouse Gas Emissions, Etc., by Organizations Throughout the SupplyChain (Ver. 2.3) "
by the Ministry of the Environment (March 2016)

7. Responses to Water Risks

(1) Evaluation of Water Stress

The Toho Gas Group uses water resources for various purposes, such as gasification of LNG, and is aware of the importance of the effective utilization of water.

Through evaluations using Aqueduct, which is issued by the World Resources Institute (WRI), we have confirmed that the areas where the Group's places of business are located all have low water stress.

(2) Compliance with Regulation Criteria

We comply appropriately with regulations and agreements on water, and have experienced no accidents having major environmental impact, or any legal violations.

The seawater used as a heat source for gasification of LNG at city gas plants we design manufacturing facilities to ensure the temperature difference between water intake and water discharge falls within a certain range with the aim of reducing our impact.

	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Number of incidents of non-compliance with water quality/quantity permits, standards and regulations	Incidents	0	0	0	0	0

(3) Disclosure of Water Consumption and Discharge Amounts

We assess the amount of water used generally in the form of municipal potable water in offices, the amount of industrial water, and the amount of well water, and work to conserve water used. For discharged water, we assess the amount of water discharged at discrete discharge sites and manage the quality of water discharged in accordance with laws and regulations concerning discharge as well as ordinances of local governments.

We make no use of collected rainwater or water collected from quarries. Seawater is used as a heat source for gasification of LNG, but water extracted from seawater (fresh water) is not used.

There is no discharged water processed offsite at locations other than our own places of business (other than water discharged to sewers).

Data on amounts of water withdrawal and distributor for the past five years is available in the ESG Data, under Environmental Data: 1. Environmental Load - 2. Environmental Load Due to Business Activities,

(4) Water Withdrawal (Water Usage Amounts) and (5) Discharge, Etc., to Water Systems.

8. Percentage of Sites Covered by ISO 14001*1 Certification (Non-consolidated)

	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Percentage of Sites Covered by ISO 14001 certification *2 (on a CO ₂ emissions basis)	%	54	51	55	63	61

*1 An international standard for continuous reduction of environmental load and improvement of environmental management

*2 Obtained at Chita-Midorihama Works, Chita LNG Terminal, Chita Calorific Value Adjustment Center, and Yokkaichi Works

9. Penalties and Fines Related to Environmental Legislation

In FY2021, there were no administrative dispositions due to violation of laws or regulations related to the environment.

	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Fines related to environmental legislation	Yen	0	0	0	0	0

10. Mid- to Long-term Targets for CO₂ Emissions Reduction, etc.

(1) Mid-term target

The Toho Gas Group has announced Toho Gas Group Vision and Toho Gas Group Medium-term Management Plan 2022-2025 in March 2022. We have established environmental action goals for FY2022 to FY2025 based on the Medium-term Management Plan and are promoting initiatives to contribute to reducing CO₂ emissions in the society and reducing CO₂ emission intensity in our business activities.

Goal item	Goal value	Target Scope and Category	Ratio of total amount in Scope or Category and target emissions	Set year	Base year	Target year	Emissions in base year
Amount of contribution to CO ₂ reduction	-1 million tonnes	Scope 1, 2 and Scope 3 Category 1, 2, 3, 4, 5, 6, 7, 9, 11	100%	2021	2020	2025	11.29 million tonnes-CO ₂
Reduction of CO ₂ emissions intensity in business activities	-2% CO ₂ emission intensity/year	Scope 1, 2	99%	2021	2021	2025	0.141 million tonnes-CO ₂

(2) Long-term target

The Group has established a FY2030 target for the amount of contribution to CO₂ reduction and announced the Toho Gas Group 2050 Carbon Neutrality Initiative in July 2021.

Goal item	Goal value	Target Scope and Category	Ratio of total amount in Scope or Category and target emissions	Set year	Base year	Target year	Emissions in base year
Amount of contribution to CO ₂ reduction	-3 million tonnes	Scope 1, 2 and Scope 3 Category 1, 2, 3, 4, 11	100%	2021	2020	2030	11.29 million tonnes-CO ₂

Independent Practitioner's Assurance of Environmental Data

Toho Gas Group has received independent practitioner's assurance from Deloitte Tohmatsu Sustainability Co., Ltd. in order to increase the reliability of environmental data. Since first acquiring independent practitioner's assurance in FY2002, Toho Gas has worked to improve the reliability of environmental data, expanding the coverage of the value chain and the scope of data included.

[Assurance Scope]

FY2022 environmental data includes greenhouse gases (CO₂ equivalent), energy consumption (electricity, gas, and other fuels), waste, water consumption and discharge, raw materials usage (LNG and LPG), sales amount (city gas, LPG, heat, and electricity), etc.

The Japanese version of the data marked with in the ESG Data - Environmental Data 2023 indicates the data is assured by an independent practitioner.

Independent Practitioner's Assurance Report

Deloitte.

デロイト トーマツ

(TRANSLATION)

Independent Practitioner's Assurance Report

July 31, 2023

Mr. Nobuyuki Masuda,
Representative Director, President,
TOHO GAS Co., Ltd.

Tomoharu Hase
Representative Director
Deloitte Tohmatsu Sustainability Co., Ltd.
3-2-3, Marunouchi, Chiyoda-ku, Tokyo

We have undertaken a limited assurance engagement of the environmental data indicated with for the year ended March 31, 2023 (the "Environmental Data") included in the "ESG Data - Environmental Data 2023" (the "Report") of TOHO GAS Co., Ltd. (the "Company").

The Company's Responsibility

The Company is responsible for the preparation of the Environmental Data in accordance with the calculation and reporting standard adopted by the Company (Calculation Standards for Main Environmental Data indicated in the Report). Greenhouse gas quantification is subject to inherent uncertainty for reasons such as incomplete scientific knowledge used to determine emissions factors and numerical data needed to combine emissions of different gases.

Our Independence and Quality Control

We have complied with the independence and other ethical requirements of the Code of Ethics for Professional Accountants issued by the International Ethics Standards Board for Accountants, which is founded on fundamental principles of integrity, objectivity, professional competence and due care, confidentiality and professional behavior. We apply International Standard on Quality Control 1, *Quality Control for Firms that Perform Audits and Reviews of Financial Statements, and Other Assurance and Related Services Engagements*, and accordingly maintain a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal and regulatory requirements.

Our Responsibility

Our responsibility is to express a limited assurance conclusion on the Environmental Data based on the procedures we have performed and the evidence we have obtained. We conducted our limited assurance engagement in accordance with the International Standard on Assurance Engagements ("ISAE") 3000, *Assurance Engagements Other than Audits or Reviews of Historical Financial Information*, issued by the International Auditing and Assurance Standards Board ("IAASB"), ISAE 3410, *Assurance Engagements on Greenhouse Gas Statements*, issued by the IAASB and the *Practical Guideline for the Assurance of Sustainability Information*, issued by the Japanese Association of Assurance Organizations for Sustainability Information.

The procedures we performed were based on our professional judgment and included inquiries, observation of processes performed, inspection of documents, analytical procedures, evaluating the appropriateness of quantification methods and reporting policies, and agreeing or reconciling with underlying records. These procedures also included the following:

- Evaluating whether the Company's methods for estimates are appropriate and had been consistently applied. However, our procedures did not include testing the data on which the estimates are based or reperforming the estimates.
- Performing interviews of responsible persons and inspecting documentary evidence to assess the completeness of the data, data collection methods, source data and relevant assumptions applicable to the sites.

The procedures performed in a limited assurance engagement vary in nature and timing from, and are less in extent than for, a reasonable assurance engagement. Consequently, the level of assurance obtained in a limited assurance engagement is substantially lower than the assurance that would have been obtained had we performed a reasonable assurance engagement.

Limited Assurance Conclusion

Based on the procedures we have performed and the evidence we have obtained, nothing has come to our attention that causes us to believe that the Environmental Data is not prepared, in all material respects, in accordance with the calculation and reporting standard adopted by the Company.

The above represents a translation, for convenience only, of the original Independent Practitioner's Assurance report issued in the Japanese language.

Member of
Deloitte Touche Tohmatsu Limited

1. Employment*1

			Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Number of Employees	Non-consolidated	Total	Persons	2,759	2,764	2,750	2,702	1,638
		Male		2,309	2,314	2,288	2,237	1,312
		Female		450	450	462	465	326
	Consolidated	Total		5,799	6,198	6,225	6,180	6,080
		Male		4,401	4,728	4,726	4,685	4,605
		Female		1,398	1,470	1,499	1,495	1,475
Average Age (Non-consolidated)	Total	Age	42.4	42.6	42.6	42.3	41.5	
			Male	42.6	42.8	42.7	42.4	41.8
			Female	41.1	41.5	41.7	42.0	40.5
Average Years of Service (Non-consolidated)	Total	Years	18.4	17.7	17.6	17.0	16.6	
			Male	18.4	17.6	17.4	16.5	16.4
			Female	18.3	18.0	18.6	19.0	17.4
Number of Graduate Recruits (Non-consolidated) *2	Total	Persons	77	86	82	82	89	
			Male	61	68	63	59	62
			Female	16	18	19	23	27
Number of Mid-career Recruits (Non-consolidated)			15	28	17	33	28	
Ratio of mid-career Recruits (Non-consolidated)		%	16.3	24.6	17.2	28.7	25.5	
Number of Rehires (Non-consolidated) *3		Persons	267	325	316	295	121	
Turnover Rate (Non-consolidated) *4		%	1.33	1.66	1.32	1.50	1.77	
Ratio of Temporary Employees (Dispatch Staff) (Non-consolidated)		%	10.9	11.0	11.0	11.1	16.0	

*1 Data is as of end of March every year. Full-time employees, not including seconded employees (non-consolidated)

Starting from FY2022, due to the spin-off of Toho Gas Network Co., Ltd., the performance data presented here pertains to Toho Gas Co., Ltd. alone.

*2 Numbers starting in April in the following fiscal year

*3 Including part-time employees

*4 Includes seconded employees

2. Development of Human Resources

	Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Total Training Hours (Non-consolidated)*	Hours	735.0	739.5	686.3	738.3	797.5
Annual Average Training Days (Non-consolidated)*	Days/person	1.3	1.2	1.1	1.1	1.2
Annual average training hours (Non-consolidated)*	Hours/person	9.7	9.1	8.3	8.6	9.0

* Training organized by the Personnel Department. Independent training by respective areas of the company is not included.

3. Promotion of Diversity

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Ratio of Female Employees	Non-consolidated	%	16.3	16.3	16.8	17.2	19.9
	Consolidated		24.1	23.7	24.1	24.2	24.3
Ratio of Women in Management Positions (Non-consolidated) *1			2.0	2.2	2.9	3.1	3.4
Ratio of Employment of People with Disabilities (Non-consolidated through FY2019, and consolidated from FY2020) *2			2.26	2.25	2.28	2.36	2.35

*1 Includes seconded employees

*2 As of June 1 for each fiscal year. Note that the rate for FY2023 is 2.40%.

4. Creating a Work-friendly Environment

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
New recipients of childcare leave *1		人	17	23	21	33	39
	Number of males therein:		1	2	5	15	25
Employees Who Begin Child-rearing or Nursing-careLeave *1 *2	Female	%	123.1	95.5	100.0	94.7	107.7
	Male		1.1	2.1	5.4	13.2	29.4
Percentage of male employees who took childcare leave or leave for childcare purposes *1 *2			75.3	75.5	75.3	76.3	96.5
New recipients of reduced working hours for childcare *1		人	12	15	19	7	20
	Number of males therein:		0	2	1	0	2
New recipients of caregiving leave *1			1	2	1	1	0
	Number of males therein:		1	0	0	0	0
New recipients of reduced working hours for caregiving *1			1	0	2	1	1
	Number of males therein:		0	0	0	0	0
Ratio of Paid Leave Taken *1		%	77.8	85.4	70.2	79.3	81.3
Average Monthly Overtime Hours per Person *1		時間/人・月	10.5	10.7	10.2	10.7	11.1
Number of Labor-union Members (Consolidated)		人	2,878	2,832	2,796	2,752	2,694

※1 Up until FY2021, the performance data pertained to Toho Gas Co., Ltd. alone. From FY2022 onwards, the data includes the combined performance of Toho Gas Co., Ltd. and Toho Gas Network Co., Ltd.

※2 Calculated in accordance with the provisions of the Act on Promotion of Women's Active Engagement in Professional Life. Regarding the "percentage of male employees who took childcare leave or leave for childcare purposes," the calculation is the proportion of male employees who, upon the birth of their child, took childcare leave or special leave for childcare purposes.

5. Initiatives for Occupational Health and Safety

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022	
Target of Occupational Health and Safety(Non-consolidated)	Accidents accompanied by lost time	Cases	0	0	0	0	0	
	Fatal accidents		0	0	0	0	0	
Number of Incidents Related to Occupational Health and Safety (Non-consolidated)	Accidents accompanied by lost time		0	0	0	0	0	
	Fatal accidents		0	0	0	0	0	
Targets Related to Accident Occurrence(Non-consolidated)	Work injuries (work-related injuries)		0	0	0	0	0	
	Traffic injuries		0	0	0	0	0	
Number of Accidents (Non-consolidated)	Work injuries (work-related injuries)		4	6	4	3	0	
	Traffic injuries		25	19	17	10	6	
Lost-time Incident Rate (Non-consolidated) *1			—	0.36	0.31	0.75	0.52	0.00
Lost-time Accident Severity Rate (Non-consolidated) *2			—	0.013	0.0003	0.029	0.017	0.000
Medical-checkup Participation Rate Target (Non-consolidated)		%	100	100	100	100	100	
Medical-checkup Participation Rate Results (Non-consolidated)			100	100	100	100	100	
Totalled Results for Medical-checkup History Forms	Percent of men who smoke		30.2	28.7	27.6	23.9	23.1	
	Percent of men who exercise regularly		21.7	20.9	21.5	22.6	23.9	
Medical-checkup Effect Indicator	Ideal body weight ratio (male)		68.9	70.0	69.1	69.9	72.7	
	Participation rate		97.3	96.3	97.9	98.1	96.4	
Stress-check Effect Indicator	Overall health risk		—	93	93	92	92	87

*1 A safety indicator representing incidence of occupational accidents. Represents work stoppages caused by occupational accidents per 1,000,000 total work hours.

Lost-time incident rate = (number of work stoppages) / (total work hours of workers) x 1,000,000

*2 A safety indicator representing the number of workdays lost caused by occupational accidents per 1,000 total work hours

Lost-time accident severity rate = (number of lost workdays) / (total work hours of workers) x 1,000

			Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Number of Persons Who Participated in Occupational Health and Safety-related Training (Non-consolidated)	Education of foremen and safety supervisors	2 days	Persons	61	58	-	6	6
	Education of new-employee safety promotion officers	3 hours		94	93	115	125	43
	Traffic-safety training program for young employees	1 day		36	41	-	30	22
	Traffic-safety training program	1 hour		338	235	-	423	158
	Mental health training (self-care)	80 minutes		79	74	82	82	52
	Mental health training (line care)	75 minutes		43	31	49	45	23

* Training in FY2020 was partially postponed to prevent COVID-19 infection. Education of new-employee safety promotion officers was conducted by means of distributed textbooks.

1. Corporate Governance Organization

(1) Number of Members of the Board of Directors and Audit & Supervisory Board and Number of Meetings Held

			Unit	FY2018	FY2019	FY2020	FY2021	FY2022	
Number of Members of the Board of Directors and the Audit & Supervisory Board	Board of Directors' Meeting	Total	Persons	9	9	9	9	9	
		Internal		7	7	6	6	6	
				Number of women therein	0	0	0	0	0
		Outside		2	2	3	3	3	
				Number of women therein	0	0	1	1	1
		Total		5	5	5	5	5	
	Audit & Supervisory Board Meeting	Internal		2	2	2	2	2	
				Number of women therein	0	0	0	0	0
		Outside		3	3	3	3	3	
				Number of women therein	1	1	1	1	1
		Total		7	7	8	8	8	
		Nomination and Remuneration Committee		Internal	2	2	2	2	2
	Number of women therein				0	0	0	0	0
	Outside			5	5	6	6	6	
				Number of women therein	1	1	2	2	2
Board of Directors' Meetings and Audit & Supervisory Board Meeting Held*			Number of Board of Directors' Meetings	Times	12	12	12	12	12
			Number of Audit & Supervisory Board Meetings	Times	12	12	12	12	12

* Refer to Toho Gas website "Toho-Gas Homepage - Global > Initiatives for ESG > Governance Report > Corporate Governance
https://www.tohogas.co.jp/lang/en/approach/eco/governance/pdf/2023governance_en_p57-59.pdf

(2) Major Committees, Etc. Held *

		単位	2018年度	2019年度	2020年度	2021年度	2022年度
Carbon Neutral Promotion Committee	President	Times	-	-	-	3	5
Group Environmental Preservation Committee	Director in charge of the CSR/Environment Department, Managing Executive Officer		2	2	2	3	2
Disaster Mitigation Committee	President		2	2	2	3	2
Safety Committee	President		2	2	2	2	2
Research Committee	President		1	1	1	1	1
Central Safety and Health Committee	President		2	2	2	2	2
Compliance Committee	President		2	2	2	2	2
Personal Information Protection Committee	Managing executive officer in charge of the Internal Control Department		2	2	2	2	2
Cyber Security Committee	General Manager of R&D/Digital Division		1	3	2	1	1

* Current as of March 2023

2. Compliance System

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Number of Compliance Training Sessions *1		Times	16	15	16	9	12
Number of Compliance Consultation Services Rendered (Consolidated)			17	18	5	27	43
Content of Major Consultations (Consolidated)	Number of compliance consultations *2	Cases					
	Consultations relating to internal rules, laws and regulations, etc.		–	–	1	7	21
	Consultations relating to interpersonal relations and harassment in the workplace		–	–	4	14	15
	Consultations relating to employee treatment and working hours		–	–	0	6	7
	Consultations relating to corruption (bribery, etc.)		–	–	0	0	0
Compliance-awareness Survey Results (Consolidated)	Aware of no violation of compliance, not just by oneself but also including issues in surrounding areas	%	67	66	69	68	68
	Awareness of no violation of compliance by oneself		31	32	29	30	31
	Not very aware - Other		2	2	2	2	1

*1 In FY2022, we provided an Antimonopoly Law workshop for director and managerial-level employees, online training (themes including workplace communication, harassment, etc.) for all employees, etc.

*2 FY2022 includes opinions, requests, and inquiries that are not violating compliance.

3. Information Security

		Unit	FY2018	FY2019	FY2020	FY2021	FY2022
Number of e-learning Sessions on Information Security		Times	2	0	1	1	2
Number of Awareness Drills Using Targeted email Messages			7	5	4	6	4

Content Indices

GRI Content Index

Below is a content index of the standard disclosures in the Sustainability Reporting Standards provided by the Global Reporting Initiative (GRI) and the information we provide on our website.

Statement of use	Toho Gas Co., Ltd. will refer to the GRI Standards and report the information listed in this GRI Content Index for the period from April 1, 2022, to March 31, 2023.
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Scope of the report: Toho Gas Co., Ltd. and its consolidated subsidiaries and equity-method affiliates (as of the end of March 2023)

GRI 1: Foundation 2021	
GRI 1 used	GRI 1: Foundation 2021

GRI 2: General Disclosures 2021		
Number	Title of disclosure	Pages in Integrated Report 2023
2-1	Organizational details	> P.93-94 Company Overview [PDF:813KB]
2-2	Entities included in the organization's sustainability reporting	> P.93-94 Company Overview [PDF:813KB]
2-3	Reporting period, frequency and contact point	> P.93-94 Company Overview [PDF:813KB]
2-4	Restatements of information	–
2-5	External assurance	> ESG Data (Environmental Data) Independent Practitioner's Assurance Report [PDF:562KB]
2-6	Activities, value chain and other business relationships	> P.11-12 Value Creation Process [PDF:1.33MB] > P.35-38 Management of Environmental Preservation [PDF:900KB] > ESG Data (Environmental Data) [PDF:562KB] > Supply Chain Collaboration
2-7	Employees	> P.49-52 Promotion of Personnel Policies [PDF:394KB] > ESG Data (Social Data) [PDF:139KB]
2-8	Workers who are not employees	> ESG Data (Social Data) [PDF:139KB]
2-9	Governance structure and composition	> P.57-59 Corporate Governance [PDF:245KB] > ESG Data (Governance Data) [PDF:137KB] <LINK> > Summary of Corporate Governance (Japanese version only) [PDF: 98KB]
2-10	Nomination and selection of the highest governance body	> P.57-59 Corporate Governance [PDF:000KB] <LINK> > Summary of Corporate Governance (Japanese version only) [PDF: 98KB]
2-11	Chair of the highest governance body	> P.57-59 Corporate Governance [PDF:000KB] <LINK> > Summary of Corporate Governance (Japanese version only) [PDF: 98KB]
2-12	Role of the highest governance body in overseeing the management of impacts	> P.57-59 Corporate Governance [PDF:000KB] > P.61-62 Internal Control [PDF:000KB] <LINK> > Summary of Corporate Governance (Japanese version only) [PDF: 98KB]
2-13	Delegation of responsibility for managing impacts	> P.57-59 Corporate Governance [PDF:000KB] <LINK> > Summary of Corporate Governance (Japanese version only) [PDF: 98KB]

Number	Title of disclosure	Pages in Integrated Report 2023
2-14	Role of the highest governance body in sustainability reporting	> P.13-14 Materiality [PDF:369KB]
2-15	Conflicts of interest	> P.57-59 Corporate Governance [PDF:245KB] > P.63-64 Compliance [PDF:82KB] <LINK> > Summary of Corporate Governance (Japanese version only) [PDF: 98KB]
2-16	Communication of critical concerns	> P.57-59 Corporate Governance [PDF:245KB] > P.63-64 Compliance [PDF:82KB]
2-17	Collective knowledge of the highest governance body	> P.57-59 Corporate Governance [PDF:245KB] <LINK> > Summary of Corporate Governance (Japanese version only) [PDF: 98KB]
2-18	Evaluation of the performance of the highest governance body	> P.57-59 Corporate Governance [PDF:245KB] <LINK> > Summary of Corporate Governance (Japanese version only) [PDF: 98KB]
2-19	Remuneration policies	> P.57-59 Corporate Governance [PDF:245KB] <LINK> > Summary of Corporate Governance (Japanese version only) [PDF: 98KB]
2-20	Process to determine remuneration	> P.57-59 Corporate Governance [PDF:245KB] <LINK> > Summary of Corporate Governance (Japanese version only) [PDF: 98KB]
2-21	Annual total compensation ratio	–
2-22	Statement on sustainable development strategy	> P.05-08 Message from the President [PDF:985KB]
2-23	Policy commitments	> P.01 Corporate Philosophy [PDF:1.66MB] > P.32 Toho Gas Group Sustainability Policy [PDF:2.41MB] > P.55-56 Initiatives for Respect of Human Rights [PDF:185KB] > Supply Chain Collaboration
2-24	Embedding policy commitments	> P.32 Toho Gas Group Sustainability Policy [PDF:2.41MB] > P.55-56 Initiatives for Respect of Human Rights [PDF:185KB] > Supply Chain Collaboration
2-25	Processes to remediate negative impacts	> P.63-64 Compliance [PDF:82KB] > P.74 Business Report City Gas Business (Enhancing customer satisfaction) [PDF:2.23MB]
2-26	Mechanisms for seeking advice and raising concerns	> P.63-64 Compliance [PDF:82KB]
2-27	Compliance with laws and regulations	> P.35 Management of Environmental Preservation (Organizational Structure for Management of Environmental Preservation) [PDF:900KB] > P.61-62 Internal Control [PDF:149KB] > P.63-64 Compliance [PDF:82KB]
2-28	Membership associations	> Participation in Initiatives, and Major ESG Evaluations
2-29	Approach to stakeholder engagement	> P.45-48 Contribution to the Local Communities [PDF:1.74MB]
2-30	Collective bargaining agreements	–
GRI 3: Material Topics 2021		
3-1	Process to determine material topics	> P.13-14 Materiality [PDF:369KB]
3-2	List of material topics	> P.13-14 Materiality [PDF:369KB]
3-3	Management of material topics	> P.13-14 Materiality [PDF:369KB]

Number	Title of disclosure	Pages in Integrated Report 2023
Sector Standards		
GRI 11: Oil and Gas Sector (2021)		
11-1	GHG emissions	> P.35-38 Management of Environmental Preservation[PDF:900KB] > P.39-40 Global Warming Countermeasures[PDF:226KB] > ESG Data(Environmental Data) [PDF:562KB]
11-2	Climate adaptation, resilience, and transition	> P.33-34 Information Disclosure Based on TCFD Opinions[PDF:114KB]
11-3	Air emissions	> P.35-38 Management of Environmental Preservation[PDF:900KB] > P.39-40 Global Warming Countermeasures[PDF:226KB] > ESG Data(Environmental Data) [PDF:562KB]
11-4	Biodiversity	> P.35-38 Management of Environmental Preservation[PDF:900KB] > P.43-44 Biodiversity Conservation[PDF:885KB]
11-5	Waste	> P.35-38 Management of Environmental Preservation[PDF:900KB] > P.41-42 Resource Recycling[PDF:522KB] > ESG Data(Environmental Data) [PDF:562KB]
11-6	Water and effluents	> P.41-42 Resource Recycling[PDF:522KB] > ESG Data(Environmental Data) [PDF:562KB]
11-7	Closure and rehabilitation	–
11-8	Asset integrity and critical incident management	> P.61-62 Internal Control[PDF:149KB]
11-9	Occupational health and safety	> P.53-54 Initiatives for Occupational Health and Safety[PDF:285KB] > ESG Data(Social Data) [PDF:139KB]
11-10	Employment practices	> P.49-52 Promotion of Personnel Policies[PDF:394KB] > P.55-56 Initiatives for Respect of Human Rights [PDF:185KB]
11-11	Non-discrimination and equal opportunity	> P.49-52 Promotion of Personnel Policies [PDF:394KB]
11-12	Forced labor and modern slavery	> P.55-56 Initiatives for Respect of Human Rights [PDF:185KB]
11-13	Freedom of association and collective bargaining	> P.49-52 Promotion of Personnel Policies[PDF:394KB] > P.53-54 Initiatives for Occupational Health and Safety[PDF:285KB]
11-14	Economic impacts	> P.17-22 Medium-Term Management Plan 2022-2025[PDF:287KB] > P.23-24 2050 Carbon Neutrality Initiative[PDF:580KB] > P.25-30 Initiatives for Carbon Neutrality[PDF:2.06MB]
11-15	Local communities	> P.45-48 Contribution to the Local Communities[PDF:1.74MB]
11-16	Land and resource rights	–
11-17	Rights of indigenous peoples	–
11-18	Conflict and security	> P.61-62 Internal Control[PDF:1.74MB]
11-19	Anti-competitive behavior	> P.61-62 Internal Control[PDF:1.74MB] > P.63-64 Compliance[PDF:82KB]
11-20	Anti-corruption	> P.61-62 Internal Control[PDF:1.74MB] > P.63-64 Compliance[PDF:82KB]
11-21	Payments to governments	–
11-22	Public policy	–

Number	Title of disclosure	Pages in Integrated Report 2023
GRI200:Economic		
201:Economic Performance		
201-1	Direct economic value generated and distributed	<ul style="list-style-type: none"> > P.60 Communication with Shareholders and Investors[PDF:271KB] > P.85-92 Data Section[PDF:192KB] <LINK> > Annual Securities Report, pgs. 2-3 (Trends in Key Management Indicators, etc.)[PDF:1.12MB] > Annual Securities Report, pg. 9 (Employees)[PDF:1.12MB] > Annual Securities Report, pg. 31 (Dividends Policies)[PDF:1.12MB]
201-2	Financial implications and other risks and opportunities due to climate change	<ul style="list-style-type: none"> > P.33-34 Information Disclosure Based on TCFD Opinions[PDF:114KB] > P.35-38 Management of Environmental Preservation[PDF:900KB] <LINK> > Annual Securities Report, pgs. 16-18 (Business Risks and Others)[PDF:1.12MB]
201-3	Defined benefit plan obligations and other retirement plans	<ul style="list-style-type: none"> <LINK> > Annual Securities Report, pg. 60 (Accounting for retirement benefits)[PDF:1.12MB]
201-4	Financial assistance received from government	—
202 : Market Presence 2016		
202-1	Ratios of standard entry level wage by gender compared to local minimum wage	Consideration is given to payment of the minimum wages established by the Ministry of Health, Labor, and Welfare
202-2	Proportion of senior management hired from the local community	100%
203 : Indirect Economic Impacts 2016		
203-1	Infrastructure investments and services supported	<ul style="list-style-type: none"> > P.71-76 City Gas Business[PDF:2.23MB] > P.77-78 Technical and Product Development[PDF:663KB] > P.79 LPG and Other Energies[PDF:218KB] > P.80 Electricity Business[PDF:432KB] > P.81-83 Business Development[PDF:979KB] > P.41-42 Resource Recycling[PDF:522KB] > P.43-44 Biodiversity Conservation[PDF:885KB] > P.45-48 Contribution to the Local Communities[PDF:1.74MB]
203-2	Significant indirect economic impacts	—
204 : Procurement Practices		
204-1	Proportion of spending on local suppliers	—
205 : Anti-corruption 2016		
205-1	Operations assessed for risks related to corruption	<ul style="list-style-type: none"> > P.57-59 Corporate Governance[PDF:245KB] > P.61-62 Internal Control[PDF:149KB] > P.63-64 Compliance[PDF:82KB]
205-2	Communication and training about anti-corruption policies and procedures	<ul style="list-style-type: none"> > P.57-59 Corporate Governance[PDF:245KB] > P.61-62 Internal Control[PDF:149KB] > P.63-64 Compliance[PDF:82KB]
205-3	Confirmed incidents of corruption and actions taken	No incidents
206 : Anti-competitive Behavior 2016		
206-1	Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	No incidents

Number	Title of disclosure	Pages in Integrated Report 2023
207 : Tax 2019		
207-1	Approach to tax	--
207-2	Tax governance, control and risk management	--
207-3	Stakeholder engagement and management of concerns related to tax	--
207-4	Country-by-country reporting	--
Environmental		
301 : Materials 2016		
301-1	Materials used by weight or volume	> P.35-38 Management of Environmental Preservation [PDF:900KB] > ESG Data (Environmental Data) [PDF:562KB]
301-2	Recycled input materials used	> P.35-38 Management of Environmental Preservation [PDF:900KB] > P.41-42 Resource Recycling [PDF:522KB] > ESG Data (Environmental Data) [PDF:562KB]
301-3	Reclaimed products and their packaging materials	> P.35-38 Management of Environmental Preservation [PDF:900KB] > P.41-42 Resource Recycling [PDF:522KB] > ESG Data (Environmental Data) [PDF:562KB]
302 : Energy 2016		
302-1	Energy consumption within the organization	> P.35-38 Management of Environmental Preservation [PDF:900KB] > ESG Data (Environmental Data) [PDF:562KB]
302-2	Energy consumption outside of the organization	> P.35-38 Management of Environmental Preservation [PDF:900KB] > ESG Data (Environmental Data) [PDF:562KB]
302-3	Energy intensity	> P.35-38 Management of Environmental Preservation [PDF:900KB] > ESG Data (Environmental Data) [PDF:562KB]
302-4	Reduction of energy consumption	> P.35-38 Management of Environmental Preservation [PDF:900KB] > P.39-40 Global Warming Countermeasures [PDF:226KB] > ESG Data (Environmental Data) [PDF:562KB]
302-5	Reductions in energy requirements of products and services	> P.35-38 Management of Environmental Preservation [PDF:900KB] > P.39-40 Global Warming Countermeasures [PDF:226KB] > ESG Data (Environmental Data) [PDF:562KB]
303 : Water and wastewater 2018		
303-1	Interaction with water as a shared resource	> P.41-42 Resource Recycling [PDF:522KB] > ESG Data (Environmental Data) [PDF:562KB]
303-2	Management of impacts related to drainage	> P.41-42 Resource Recycling [PDF:522KB] > ESG Data (Environmental Data) [PDF:562KB]
303-3	Water intake	> P.41-42 Resource Recycling [PDF:522KB] > ESG Data (Environmental Data) [PDF:562KB]
303-4	Drainage	> P.41-42 Resource Recycling [PDF:522KB] > ESG Data (Environmental Data) [PDF:562KB]
303-5	Water consumption	> P.41-42 Resource Recycling [PDF:522KB] > ESG Data (Environmental Data) [PDF:562KB]

Number	Title of disclosure	Pages in Integrated Report 2023
304 : Biodiversity 2016		
304-1	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	> P.35-38 Management of Environmental Preservation [PDF:900KB] > P.43-44 Biodiversity Conservation [PDF:885KB]
304-2	Significant impacts of activities, products, and services on biodiversity	> P.35-38 Management of Environmental Preservation [PDF:900KB] > P.43-44 Biodiversity Conservation [PDF:885KB]
304-3	Habitats protected or restored	> P.35-38 Management of Environmental Preservation [PDF:900KB] > P.43-44 Biodiversity Conservation [PDF:885KB]
304-4	IUCN Red List species and national conservation list species with habitats in areas affected by operations	> P.43-44 Biodiversity Conservation [PDF:885KB]
305 : Emissions 2016		
305-1	Direct (Scope 1) GHG emissions	> P.35-38 Management of Environmental Preservation [PDF:900KB] > P.39-40 Global Warming Countermeasures [PDF:226KB] > ESG Data (Environmental Data) [PDF:562KB]
305-2	Energy indirect (Scope 2) GHG emissions	> P.35-38 Management of Environmental Preservation [PDF:900KB] > P.39-40 Global Warming Countermeasures [PDF:226KB] > ESG Data (Environmental Data) [PDF:562KB]
305-3	Other indirect (Scope 3) GHG emissions	> P.35-38 Management of Environmental Preservation [PDF:900KB] > P.39-40 Global Warming Countermeasures [PDF:226KB] > ESG Data (Environmental Data) [PDF:562KB]
305-4	GHG emissions intensity	> P.35-38 Management of Environmental Preservation [PDF:900KB] > P.39-40 Global Warming Countermeasures [PDF:226KB] > ESG Data (Environmental Data) [PDF:562KB]
305-5	Reduction of GHG emissions	> P.35-38 Management of Environmental Preservation [PDF:900KB] > P.39-40 Global Warming Countermeasures [PDF:226KB] > ESG Data (Environmental Data) [PDF:562KB]
305-6	Emissions of ozone-depleting substances (ODS)	> P.35-38 Management of Environmental Preservation [PDF:900KB] > ESG Data (Environmental Data) [PDF:562KB]
305-7	Nitrogen oxides (NOX) , sulfur oxides (SOX) , and other significant air emissions	> P.35-38 Management of Environmental Preservation [PDF:900KB] > ESG Data (Environmental Data) [PDF:562KB]

Number	Title of disclosure	Pages in Integrated Report 2023
306 : Waste 2020		
306-1	Production of waste and significant impacts related to waste	<ul style="list-style-type: none"> > P.35-38 Management of Environmental Preservation [PDF:900KB] > P.41-42 Resource Recycling [PDF:522KB] > Environment Report (Management of Environmental Preservation) [PDF:941KB] > ESG Data (Environmental Data) [PDF:562KB]
306-2	Management of the significant impacts associated with waste	<ul style="list-style-type: none"> > P.35-38 Management of Environmental Preservation [PDF:900KB] > P.41-42 Resource Recycling [PDF:522KB] > Environment Report (Management of Environmental Preservation) [PDF:941KB] > ESG Data (Environmental Data) [PDF:562KB]
306-3	Waste produced	<ul style="list-style-type: none"> > P.35-38 Management of Environmental Preservation [PDF:900KB] > P.41-42 Resource Recycling [PDF:522KB] > Environment Report (Management of Environmental Preservation) [PDF:941KB] > ESG Data (Environmental Data) [PDF:562KB]
306-4	Waste diverted from disposal	<ul style="list-style-type: none"> > P.35-38 Management of Environmental Preservation [PDF:900KB] > P.41-42 Resource Recycling [PDF:522KB] > Environment Report (Management of Environmental Preservation) [PDF:941KB] > ESG Data (Environmental Data) [PDF:562KB]
306-5	Waste directed to disposal	<ul style="list-style-type: none"> > P.35-38 Management of Environmental Preservation [PDF:900KB] > P.41-42 Resource Recycling [PDF:522KB] > Environment Report (Management of Environmental Preservation) [PDF:941KB] > ESG Data (Environmental Data) [PDF:562KB]
308 : Supplier Environmental Assessment 2016		
308-1	New suppliers that were screened using environmental criteria	<ul style="list-style-type: none"> > P.55-56 Initiatives for Respect of Human Rights [PDF:185KB] > Supply Chain Collaboration > Green procurement guidelines
308-2	Negative environmental impacts in the supply chain and actions taken	<ul style="list-style-type: none"> > P.35-38 Management of Environmental Preservation [PDF:900KB] > ESG Data (Environmental Data) [PDF:562KB]
Social		
401 : Employment 2016		
401-1	New employee hires and employee turnover	<ul style="list-style-type: none"> > P.49-52 Promotion of Personnel Policies [PDF:394KB] > ESG Data (Social Data) [PDF:139KB]
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	<ul style="list-style-type: none"> > P.49-52 Promotion of Personnel Policies [PDF:394KB] > ESG Data (Social Data) [PDF:139KB]
401-3	Parental leave	<ul style="list-style-type: none"> > P.49-52 Promotion of Personnel Policies [PDF:394KB] > ESG Data (Social Data) [PDF:139KB]
402 : Labor / Management Relations 2016		
402-1	Minimum notice periods regarding operational changes	–

Number	Title of disclosure	Pages in Integrated Report 2023
403 : Occupational Health and Safety 2018		
403-1	Occupational health and safety management system	> Society Report (Initiatives for Occupational Health and Safety) [PDF:287KB] > ESG Data (Social Data) [PDF:139KB]
403-2	Hazard identification, risk assessment, accident investigation	> Society Report (Initiatives for Occupational Health and Safety) [PDF:287KB] > ESG Data (Social Data) [PDF:139KB]
403-3	Occupational health services	> Society Report (Initiatives for Occupational Health and Safety) [PDF:287KB] > ESG Data (Social Data) [PDF:139KB]
403-4	Worker participation, consultation and communication in occupational health and safety	> Society Report (Initiatives for Occupational Health and Safety) [PDF:287KB] > ESG Data (Social Data) [PDF:139KB]
403-5	Worker training on occupational safety and health	> Society Report (Initiatives for Occupational Health and Safety) [PDF:287KB] > ESG Data (Social Data) [PDF:139KB]
403-6	Promoting worker health	> Society Report (Initiatives for Occupational Health and Safety) [PDF:287KB] > ESG Data (Social Data) [PDF:139KB]
403-7	Prevention and mitigation of occupational health and safety impacts directly linked to business relationships	> Society Report (Initiatives for Occupational Health and Safety) [PDF:287KB] > ESG Data (Social Data) [PDF:139KB]
403-8	Workers subject to occupational safety and health management system	> Society Report (Initiatives for Occupational Health and Safety) [PDF:287KB] > ESG Data (Social Data) [PDF:139KB]
403-9	Labor-related injuries	> Society Report (Initiatives for Occupational Health and Safety) [PDF:287KB] > ESG Data (Social Data) [PDF:139KB]
403-10	Labor-related illness and poor health	> Society Report (Initiatives for Occupational Health and Safety) [PDF:287KB] > ESG Data (Social Data) [PDF:139KB]
404 : Training and Education 2016		
404-1	Average hours of training per year per employee	> ESG Data (Social Data) [PDF:139KB]
404-2	Programs for upgrading employee skills and transition assistance programs	> P.49-52 Promotion of Personnel Policies [PDF:394KB]
404-3	Percentage of employees receiving regular performance and career development reviews	> P.49-52 Promotion of Personnel Policies [PDF:394KB]
405 : Diversity and Equal Opportunity 2016		
405-1	Diversity of governance bodies and employees	> P.49-52 Promotion of Personnel Policies [PDF:394KB] > ESG Data (Social Data) [PDF:139KB]
405-2	Ratio of basic salary and remuneration of women to men	—

Number	Title of disclosure	Pages in Integrated Report 2023
406 : Non-discrimination 2016		
406-1	Incidents of discrimination and corrective actions taken	> P.49-52 Promotion of Personnel Policies [PDF:394KB] > P.63-64 Compliance [PDF:82KB]
407 : Freedom of Association and Collective Bargaining 2016		
407-1	Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	> P.53-54 Initiatives for Occupational Health and Safety [PDF:285KB]
408 : Child Labor 2016		
408-1	Operations and suppliers at significant risk for incidents of child labor	> P.55-56 Initiatives for Respect of Human Rights [PDF:185KB] > P.63-64 Compliance [PDF:82KB]
409 : Forced or Compulsory Labor 2016		
409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labor	> P.55-56 Initiatives for Respect of Human Rights [PDF:185KB] > P.63-64 Compliance [PDF:82KB]
410 : Security Practices 2016		
410-1	Security personnel trained in human rights policies or procedures	> P.55-56 Initiatives for Respect of Human Rights [PDF:185KB]
411 : Rights of Indigenous Peoples 2016		
411-1	Incidents of violations involving rights of indigenous peoples	There were no infringement cases
413 : Local Communities 2016		
413-1	Operations with local community engagement, impact assessments, and development programs	> P.13-14 Materiality [PDF:369KB] > P.33-34 Information Disclosure Based on TCFD Opinions [PDF:114KB] > P.35-38 Management of Environmental Preservation [PDF:900KB] > P.43-44 Biodiversity Conservation [PDF:885KB] > P.45-48 Contribution to the Local Communities [PDF:1.74MB] > P.71-76 City Gas Business [PDF:2.23MB] > P.77-78 Technical and Product Development [PDF:663KB] > P.79 LPG and Other Energies [PDF:218KB] > P.80 Electricity Business [PDF:432KB] > P.81-83 Business Development [PDF:979KB]
413-2	Operations with significant actual and potential negative impacts on local communities	> P.35-38 Management of Environmental Preservation [PDF:900KB]
414 : Supplier Social Assessmen 2016		
414-1	New suppliers that were screened using social criteria	—
414-2	Negative social impacts in the supply chain and actions taken	> P.35-38 Management of Environmental Preservation [PDF:900KB] > P.55-56 Initiatives for Respect of Human Rights [PDF:185KB] > ESG Data (Environmental Data) [PDF:562KB] > Supply Chain Collaboration
415 : Public Policy 2016		
415-1	Political contributions	We do not make political contribution

Number	Title of disclosure	Pages in Integrated Report 2023
416 : Customer Health and Safety 2016		
416-1	Assessment of the health and safety impacts of product and service categories	> P.71-76 City Gas Business [PDF:2.23MB] > P.77-78 Technical and Product Development [PDF:663KB] > P.79 LPG and Other Energies [PDF:218KB] > P.80 Electricity Business [PDF:432KB] > P.81-83 Business Development [PDF:979KB] > In an emergency
416-2	Incidents of non-compliance concerning the health and safety impacts of products and services	No incidents
417 : Marketing and Labeling 2016		
417-1	Requirements for product and service information and labeling	> P.71-76 City Gas Business [PDF:2.23MB] > P.77-78 Technical and Product Development [PDF:663KB] > P.79 LPG and Other Energies [PDF:218KB] > P.80 Electricity Business [PDF:432KB] > P.81-83 Business Development [PDF:979KB] > In an emergency
417-2	Incidents of non-compliance concerning product and service information and labeling	No incidents
417-3	Incidents of non-compliance concerning marketing communications	No incidents
418 : Customer Privacy 2016		
418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	> P.63-64 Compliance [PDF:82KB]

SASB Content Index

■ Sustainability Disclosure Topics and Accounting Metrics

<Gas Utilities & Distributors>

Topics	Accounting Metrics	Location
Energy Affordability	Average retail gas rate for (1) residential, (2) commercial, (3) industrial customers, and (4) transportation services only	<ul style="list-style-type: none"> > Residential Customers > Commercial and Industrial Customers
	Typical monthly gas bill for residential customers for (1) 50 MMBtu and (2) 100 MMBtu of gas delivered per year	<ul style="list-style-type: none"> > Applicable Monthly Charge
	(1) Number of residential customer gas disconnections for non-payment, (2) percentage reconnected within 30 days	–
	Discussion of impact of external factors on customer affordability of gas, including the economic conditions of the service territory	<ul style="list-style-type: none"> > Integrate Report P.19 (Medium-Term Management Plan 2022-2025 "Evolve as an energy operator") [PDF:287KB] > Integrate Report P.71-76 (City Gas Business) [PDF:2.23MB]
End-Use Efficiency	Percentage of gas utility revenues from rate structures that (1) are decoupled or (2) contain a lost revenue adjustment mechanism (LRAM)	–
	Customer gas savings from efficiency measures by market	<ul style="list-style-type: none"> > Integrate Report P.36 (Environmental Action Goals) [PDF:900KB] > Integrate Report P.39 (Climate Change Mitigation at Customer Locations) [PDF:226KB] > Integrate Report P.75-76 (Responding to diverse customer needs) (Expansion of services to support business) [PDF:2.23MB]
Integrity of Gas Delivery Infrastructure	Number of (1) reportable pipeline incidents, (2) Corrective Action Orders (CAO), and (3) Notices of Probable Violation (NOPV)	–
	Percentage of distribution pipeline that is (1) cast and/or wrought iron and (2) unprotected steel	<ul style="list-style-type: none"> > Initiatives for Safety (Gas Supply Facilities)
	Percentage of gas (1) transmission and (2) distribution pipelines inspected	<ul style="list-style-type: none"> > Initiatives for Safety (Gas Supply Facilities)
	Description of efforts to manage the integrity of gas delivery infrastructure, including risks related to safety and emissions	<ul style="list-style-type: none"> > Integrate Report P.19 (Medium-Term Management Plan 2022-2025 "Evolve as an energy operator") [PDF:287KB] > Integrate Report P.71-72 (City Gas Business "Ensuring safe, secure, and stable supply") [PDF:2.23MB] > Safety Initiatives

United Nations Global Compact Content Index

Item	Principle	Pages in Integrated Report 2023	
Human Rights	<p>Principle 1: Businesses should support and respect the protection of internationally proclaimed human rights; and</p> <p>Principle 2: make sure that they are not complicit in human rights abuses.</p>	<p>49~52</p> <p>55~56</p> <p>63~64</p>	<p>> Promotion of Personnel Policies [PDF:394KB]</p> <p>> Initiatives for Respect of Human Rights [PDF:185KB]</p> <p>> Supply Chain Collaboration</p> <p>> Compliance [PDF:82KB]</p> <p>> ESG Data “Social Data”, “Governance Data”</p>
Labour	<p>Principle 3: Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining;</p> <p>Principle 4: the elimination of all forms of forced and compulsory Labour;</p> <p>Principle 5: the effective abolition of child Labour; and</p> <p>Principle 6: the elimination of discrimination in respect of employment and occupation.</p>	<p>49~52</p> <p>53~54</p> <p>55~56</p> <p>61~62</p> <p>63~64</p>	<p>> Promotion of Personnel Policies [PDF:394KB]</p> <p>> Initiatives for Occupational Health and Safety [PDF:285KB]</p> <p>> Initiatives for Respect of Human Rights [PDF:185KB]</p> <p>> Supply Chain Collaboration</p> <p>> Internal Control [PDF:149KB]</p> <p>> Compliance [PDF:82KB]</p> <p>> ESG Data “Social Data”, “Governance Data”</p>
Environment	<p>Principle 7: Businesses are asked to support a precautionary approach to environmental challenges;</p> <p>Principle 8: undertake initiatives to promote greater environmental responsibility; and</p> <p>Principle 9: encourage the development and diffusion of environmentally friendly technologies.</p>	<p>33~44</p> <p>45~48</p> <p>55~56</p>	<p>> Initiatives for ESG (Environment) [PDF:114KB]</p> <p>> Contribution to the Local Communities [PDF:1.74MB]</p> <p>> Initiatives for Respect of Human Rights [PDF:185KB]</p> <p>> Supply Chain Collaboration</p> <p>> ESG Data “Environmental Data”</p>
Anti- Corruption	<p>Principle 10: Businesses should work against corruption in all its forms, including extortion and bribery.</p>	<p>57~59</p> <p>61~62</p> <p>63~64</p>	<p>> Corporate Governance [PDF:245KB]</p> <p>> Internal Control [PDF:149KB]</p> <p>> Compliance [PDF:82KB]</p> <p>> ESG Data “Governance Data”</p>

ISO26000 Content Index

ISO26000		Pages in Integrated Report 2023	
Guidance on social responsibility core subjects	Issues		
Organizational governance	Issue 1: Organizational governance	57~59 61~62 63~64	<ul style="list-style-type: none"> > Corporate Governance [PDF:245KB] > Internal Control [PDF:149KB] > Compliance [PDF:82KB]
Human rights	Issue 1: Due diligence Issue 2: Human rights risk situations Issue 3: Avoidance of complicity Issue 4: Resolving grievances Issue 5: Discrimination and vulnerable groups Issue 6: Civil and political rights Issue 7: Economic, social and cultural rights Issue 8: Fundamental principles and rights at work	45~48 49~52 53~54 55~56 63~64	<ul style="list-style-type: none"> > Contribution to the Local Communities [PDF:1.74MB] > Promotion of Personnel Policies [PDF:394KB] > Initiatives for Occupational Health and Safety [PDF:285KB] > Initiatives for Respect of Human Rights [PDF:185KB] > Supply Chain Collaboration > Compliance [PDF:82KB] > ESG Data “Social Data”, “Governance Data”
Labour practices	Issue 1: Employment and employment relationships Issue 2: Conditions of work and social protection Issue 3: Social dialogue Issue 4: Health and safety at work Issue 5: Human development and training in the workplace	49~52 53~54 55~56 61~62 63~64	<ul style="list-style-type: none"> > Promotion of Personnel Policies [PDF:394KB] > Initiatives for Occupational Health and Safety [PDF:285KB] > Initiatives for Respect of Human Rights [PDF:185KB] > Supply Chain Collaboration > Internal Control [PDF:149KB] > Compliance [PDF:82KB] > ESG Data “Social Data”, “Governance Data”
The environment	Issue 1: Prevention of pollution Issue 2: Sustainable resource use Issue 3: Climate change mitigation and adaptation Issue 4: Protection of the environment, biodiversity and restoration of natural habitats	33~44 45~48 55~56	<ul style="list-style-type: none"> > Initiatives for ESG (Environment) [PDF:4.53MB] > Contribution to the Local Communities [PDF:1.74MB] > Initiatives for Respect of Human Rights [PDF:185KB] > Supply Chain Collaboration > ESG Data “Environmental Data”

ISO26000		Pages in Integrated Report 2023	
Guidance on social responsibility core subjects	Issues		
Fair operating practices	Issue 1: Anti-corruption Issue 2: Responsible political involvement Issue 3: Fair competition Issue 4: Promoting social responsibility in the value chain Issue 5: Respect for property rights	33~44 55~56 57~59 61~62 63~64	<ul style="list-style-type: none"> > Initiatives for ESG(Environment) [PDF:4.53MB] > Initiatives for Respect of Human Rights [PDF:185KB] > Supply Chain Collaboration > Corporate Governance [PDF:245KB] > Internal Control [PDF:149KB] > Compliance [PDF:82KB] > ESG Data "Governance Data"
Consumer issues	Issue 1: Fair marketing, factual and unbiased information and fair contractual practices Issue 2: Protecting consumers' health and safety Issue 3: Sustainable consumption Issue 4: Consumer service, support, and complaint and dispute resolution Issue 5: Consumer data protection and privacy Issue 6: Access to essential services Issue 7: Education and awareness	25~30 71~83 45~48 61~62 63~64	<ul style="list-style-type: none"> > Initiatives for Carbon Neutrality [PDF:2.06MB] > Business Report(City Gas Business) (Technical and Product Development) (LPG and Other Energies) (Electricity Business) (Business Development) [PDF:4.03MB] > Contribution to the Local Communities [PDF:1.74MB] > Internal Control [PDF:149KB] > Compliance [PDF:82KB] > ESG Data "Environmental Data", "Social Data", "Governance Data"
Community involvement and development	Issue 1: Community involvement Issue 2: Education and culture Issue 3: Employment creation and skills development Issue 4: Technology development and access Issue 5: Wealth and income creation Issue 6: Health Issue 7: Social investment	45~48 60 49~52 53~54 61~62 63~64	<ul style="list-style-type: none"> > Contribution to the Local Communities [PDF:1.74MB] > Communication with Shareholders and Investors [PDF:271KB] > Promotion of Personnel Policies [PDF:394KB] > Initiatives for Occupational Health and Safety [PDF:285KB] > Internal Control [PDF:149KB] > Compliance [PDF:82KB] > ESG Data "Environmental Data", "Social Data", "Governance Data" > Participation in Initiatives, and Major ESG Evaluations