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Environmental Targets

Principle and Outline

Contributing to regional and global environmental conservation is a pivotal mission of the Daigas Group, which is mainly engaged in the energy business. In line with its Charter of Business Conduct, Code of Business Conduct, and Environmental Policy, the Daigas Group promotes environmental conservation activities.

Having set the medium-term environmental targets for the reduction of GHG emissions from its business activities, resource recycling, and the like, we have devoted active efforts to helping increase the use of natural gas, developing and facilitating more widespread use of highly efficient equipment, including fuel cells, offering customers proposals for the use of energy-saving products and services, and introducing renewable energy.

In line with the worldwide trend toward action against climate change, we are striving to reduce GHG emissions from its business activities, including CO₂ and methane (CH₄), to help realize a low-carbon or decarbonized society. Specifically, we devote positive efforts to reduce CO₂ emissions from liquefied natural gas (LNG) transportation, city gas production, and power generation. We also implement various energy-saving measures at offices.

In addition, as the trend toward decarbonization further accelerates, and as global economic stagnation and increased volatility in the energy market become apparent, it is becoming more important from the perspective of "S + 3Es"* – the basic policy of the nation's energy policy – to make energy carbon-neutral without compromising stability and security of energy supply.

In line with the "Carbon Neutral Vision" announced in January 2021 and "Medium-Term Management Plan 2023" in March of the same year, we are further accelerating our efforts toward lowcarbon/decarbonized business operations. In March 2023, we announced "Energy Transition 2030 (ET2030)," which provided an overall picture of the path toward low-carbon/carbon-neutral energy solutions.

We will accelerate our efforts to combat climate change toward our medium- to long-term targets.

The results for each target established based on the Daigas Group Environmental Policy and "Medium-Term Management Plan 2023" are presented below.

* S + 3Es: safety, energy security, economic efficiency, and environment

Environmental Targets (FY2024.3 Targets) and Results Osaka Gas underwent a third-party verification by Bureau Veritas Japan Co., Ltd. (Verified items are indicated with an asterisk [*].)

Field		Indicators			Targets	Target fiscal year	FY2024.3 results	
		CO ₂ emissions of Daigas Group*		Net ze	ero emissions	2051.3	25.63 million tons	
Climate change					27.02 million tons*1 5 million tons less than FY18.3)	2031.3	24.63 million tons	
	CO ₂ emissions reductions from our own business activities	Percentage of renewables in our power generation portfolio in Japan		Nearly	y 50%	2031.3	22.4%	
		Contribution to developing renewables capacity on a global basis		5 GW	1	2031.3	3.17 GW	
				2.5 G	W	2024.3	3.17 GW	
	CO ₂ emissions reductions at customer sites and through the value chain	 Accelerating low-carbonization/decarbonization by facilitating more wides efficient and highvalue- added equipment using natural gas, renewable en Operating LNG carriers efficiently and increasing the use of low-emission sustainable vehicles Providing environmental value by disseminating high-quality solutions in the estate, and materials 			y, etc. I other environmentally	Every year until 2031.3	Please see 💭 P.044 for major initiatives.	
	Contribution to CO ₂ emissions reductions across society	Avoided emissions (Including reductions contributed at customer sites and overseas*			Ilion tons Iline: FY2017.3)	2031.3	5.01 million tons	
	3R (reduce, reuse, and recycle) efforts in the Group's own business activities	Osaka Gas (including network company and the core energy business companies)	Industrial and general waste (final disposal rate)*	2% or	r lower		1.4%	
			Soil excavated during piping works (final disposal rate)* 1% or lower Soil excavated during piping works (final disposal rate)* 100%		r lower		0.1%	
Resource recycling					Even weer until 2021 2	100%		
			Industrial and general waste (final disposal rate)*	dustrial and general waste (final disposal rate)* 98% or higher		Every year until 2031.3	99.4%	
		Affiliates	Gas meters (reuse rate)*	4% or	r lower		3.0%	
		Value chain	Promoting 3R efforts concerning used equipment collected from customers or business activities				Please see III P.050-052 for major initiatives.	
Biodiversity		Paying due attention to biodiversity in business activities in line with the Daigas Group Biodiversity Promotion Policy			Every year until 2031.3	Please see III P.053-058 for major initiatives.		
Development of technology		Facilitating the development of technologies that will contribute to realizing a low-carbon or decarbonized society and provide a strong business foundation			Every year until 2031.3	Please see D P.059-062 for major initiatives.		
Green procurement and purchase		Promoting green purchase, the green partner system, etc. in cooperation with business partners			Every year until 2031.3	Please see D P.098 for major initiatives.		

*1 Emissions in domestic supply chain (Scopes 1, 2 and 3) (Targets for FY2031.3 newly set in "ET2030")

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New Environmental Targets

In March 2024, the Daigas Group announced Medium-Term Management Plan 2026, in which we presented our key strategy, positioning the 2024-2026 period as a period to be focused on contributing to the energy transition toward achieving carbon neutrality in 2050 and building a foundation to accelerate our initiatives for a carbon neutral society.

In addition, we revised the Daigas Group Biodiversity Promotion Policy and the Daigas Group Environmental Policy in April 2024, with reference to the National Biodiversity Strategy and Action Plan of Japan 2023-2030 formulated based on the launch of the Taskforce on Nature-related Financial Disclosures (TNFD) in June 2021 and Kunming-Montreal Global Biodiversity Framework, which was adopted at the 15th Conference of the Parties to the Convention on Biological Diversity (COP15) held in December 2022.

Based on these policies, we have established new environmental targets.

Daigas Group Environmental Targets (2024-2026)

Field		Indi	cators	Targets	Target fiscal year	
				Net-zero CO ₂ emissions	2051.3	
		CO ₂ emissions of Daigas Group		27.02 million tons*1 Domestic: 5 million tons less than FY2018.3.	2031.3	
Climate change	Contribution to CO ₂ emissions	Avoided emissions*2		10 million tons	2031.3	
	reductions across society	Avoided emissions -		7 million tons	2027.3	
	CO ₂ emissions reductions from our own business activities		tion	5 GW	2031.3	
		Renewable energy development contribu	lion	4 GW	2027.3	
		Dereentage of renewables in our newer a	eneration partfalia in Japan	Nearly 50%	2031.3	
		Percentage of renewables in our power g	eneration portfolio in Japan	Nearly 30%	2027.3	
				100%	2031.3	
		CO ₂ emissions reduction in the Group co	mpany onices and vehicles	67%	2027.3	
	Contribution by development of technologies			1% e-methane in gas grid	2031.3	
		Promotion of e-methane practical applica	ltion	Final investment decisions in e-methane supply chain PJ	2027.3	
		Promotion of methanation technology de	velopment	Establishing a pilot-scale (400 Nm ³ /h class) SOEC technology	2031.3	
				Transition to the second phase of SOEC GI funds business	2027.3	
Resource recycling			Industrial and general waste	Recycling rate: 98% or higher	Every year until 2031.3	
		Osaka Gas, core energy business companies, and Osaka Gas Network	Polyethylene (PE) pipes	Recycling rate: 100%		
			Gas meters	Recycling rate: 100%		
		Affiliates	Industrial and general waste	Recycling rate: 96% or higher		
		Value chain		Promoting 3R efforts concerning used equipment collected from customers or business activities		
		Identifying risks and promoting conservat	ion initiatives through biodiversity impact ass	essments		
Biodiversity		Conserving the environment by promoting works	g reuse of soil excavated during gas piping	Recycling rate of soil excavated during piping works: 99% or higher	Every year until 2031.3	
Water resources		Identifying water risks through water stres	resources conservation	Even weer until		
		Preventing water pollution		Violation of environmental regulations related to water pollution: 0	Every year until 2031.3	

*1 Emissions in domestic supply chain (Scopes 1, 2 and 3)

*2 Calculate the estimated effect of CO₂ emissions reduction in one year of the calculation FY by introducing high efficiency facilities and low carbon energy, etc. to customer side and the company's business activities in and after FY2018.3.