Social

Kansai Electric Power Co., Inc.

Governance Kansai Transmission and Distribution, Inc.

Climate Change

ENVIRONMENT

Policy and Concept

Social background

Countries are carrying out actions against climate change aiming to achieve their greenhouse gas reduction targets under the Paris Agreement, which sets the framework for climate change mitigation. The Japanese government pledged in October 2020 to achieve carbon neutrality by 2050. Moreover, at the climate change summit in April 2021, it announced a greenhouse gas reduction target of 46% below fiscal 2013 levels by fiscal 2030.

<Addressing TCFD Recommendations>

In May 2019, our Company declared our support for the recommendations of the Task Force on Climate-related Financial Disclosures or TCFD*.

Recognizing the size of the impacts that our Group business activities have on the global environment, we declare our support for the TCFD Recommendations to "analyze and disclose business risks and opportunities originating in climate change over the medium and long terms in order to reduce risks of financial market destabilization."

Refer to pages 44–52 of the Integrated Report for details about scenario analysis, etc.

* TCFD was established by the Financial Stability Board, which is an international agency that has central banks, financial regulatory authorities and other organizations from major countries as members. In total, 4,925 organizations around the world, including financial institutions, businesses and governments, declared their support for the TCFD Recommendations as of November 24, 2023.

Targets and efforts to achieve them

The Kansai Electric Power Group is committed to carbon neutrality by 2050 throughout the entirety of our business activities, including the power generation business, as declared in the Zero Carbon Vision 2050 and the Zero Carbon Roadmap, which provides a pathway to zero carbon.

Specific measures to reduce CO₂ emissions include transforming renewable energy into the main power source, leveraging nuclear power to the fullest, achieving zero carbon in thermal power generation, using zero-carbon hydrogen, and optimizing power grids to support the measures for zero-carbon society. At the same time, we will provide various solutions (electrification, storage batteries, etc.) to help customers and society reduce their CO₂ emissions.

The Zero Carbon Roadmap, meanwhile, shows the path of our efforts to achieve our goals.

Furthermore, as a member of the Electric Power Council for a Low Carbon Society (ELCS), which was established by a consortium of electric companies including the Company, we are contributing to the ELCS initiatives as well by working on these Group endeavors.



*1 Compared to FY 2013 *2 Targets and results apply only to the Company

*3 Indicators based on the benchmark system of the Act on Rationalizing Energy Use and Shifting to Non-fossil Energy

Sustainability for the Kansai Electric Power Group	Environment	Social	Governance
	Livioinnent		Governance
	Kansai Electric Powe	er Group Kansai Electric Power Co., Inc.	Kansai Transmission and Distribution, Inc.

Efforts

• Our Group's CO₂ emissions associated with power generation in Japan

The Group's CO₂ emissions from its domestic power generation business amounted to 21.2 million tonnes in fiscal 2023. Emissions are down 56% from base-year (fiscal 2013) levels, with the 50% reduction target for fiscal 2025 achieved two years ahead of schedule. As a leading company in zero-carbon energy, we will continue to ensure safe, stable operation of our nuclear power plants, developing and introducing renewable energy.



We are making steady progress in reducing GHG emissions: Scope 1 and 2 emissions in fiscal 2023 were down 58% from fiscal 2013 levels to 19.88 million t-CO₂, and Scope 1, 2, and 3 emissions were also down 36% from fiscal 2013 levels to 55.84 million t-CO₂.



*The Company, Kansai Transmission and Distribution, Inc., Kanden Energy Solution Co., Inc., Kanden Realty & Development Co., Ltd. and OPTAGE Inc. are included in the calculation.

Continuing safe and stable operation of nuclear power plants

As a power source that emits no CO₂, nuclear power generation is key to tackling global warming. With the understanding of residents from relevant local communities, we ensure safe and stable operation of restarted plants. Dealing appropriately with investigations conducted by the Nuclear Regulation Authority, we will continuously promote voluntary safety measures that go beyond regulatory requirements.

• Higher efficiency for thermal power generation, and achieving zero carbon

A facility renovation plan is underway at the Nanko Power Station, our oldest LNG thermal power plant, with over 30 years of operation. A combined cycle unit will be installed to stabilize electricity supplies and switch to decarbonized energy.

This renovation is expected to increase power generation efficiency by about 40% and reduce the CO₂ emission factor by about 30%. Furthermore, aiming to introduce CCS technology and hydrogen co-firing power generation in the late 2030s, we contribute to creating a zero-carbon society.



Nanko Power Station

Nanko Power Station Decarbonization roadmap

Power		Decarbonization roadmap*				
source	2020s 2030s 2040s		2050s			
Nanko Power 2026-2029		2029-	Late 2030s: 20–50% hydrogen co-firing	Mid 2040s: Hydrogen exclusive firing		
Station Unit 1	Renovation LNG e	LNG exclusive firing	Late 2030s: Full recovery by CCS			
	2026-2020	2030- I NG exclusive firing	Late 2030s: 20-50% bydrogen co-firing	Mid 2040s: Hydrogen eyclusive firing		
Nanko Power	Renovation			Initia 20403. Hydrogen exclusive lining		
Station Unit 2	\rightarrow	2030– LNG exclusive firing	Mid 2040s: Full	recovery by CCS		
Nanko Power	2026-2030	2030– LNG exclusive firing	Late 2030s: 20–50% hydrogen co-firing	Mid 2040s: Hydrogen exclusive firing		
Station Unit 3	Renovation	2030– LNG exclusive firing	Mid 2040s: Full	recovery by CCS		

* As for each power source's decarbonization roadmap, the upper line refers to the hydrogen scenario and the lower refers to the CCS scenario.

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• Himeji No. 2 Power Station acquiring knowledge on the introduction of hydrogen power generation

We have been working on feasibility studies since the adoption of the Green Innovation Fund Project*1—Large-scale Hydrogen Supply Chain Development, which was offered by NEDO*² in August 2021. While designing and manufacturing of relevant facilities have been underway since fiscal 2023, we plan to conduct demonstrations of hydrogen co-firing power generation in fiscal 2025. using gas turbines installed at the Himeji No. 2 Power Station. Our objective is to establish operational techniques that can contribute to commercializing hydrogen power generation.

Demonstration system process flow



- *1 The 2 trillion yen Green Innovation Fund, set up by the government for NEDO, aims to encourage innovation among companies to achieve carbon neutrality by 2050, subsidizing
- companies for up to 10 years. *2 New Energy and Industrial Technology Development Organization

Maizuru Power Station and Himeji No. 2 Power Station: CO² capture technology research, and constructing and demonstrating CO₂ capture pilot facilities

We are supporting NEDO's project at our Maizuru Power Station, R&D of CO₂ separation/capture technologies*³. Following the commissioning run performed until the first half of fiscal 2023, the demonstration started at testing facilities in January 2024. The solid sorbent system is potentially a great deal more energy efficient than its conventional counterparts in capturing CO₂ and is therefore considered promising next-generation capture technology.

Pilot-scale facilities for the demonstration of a liquid amine-type CO₂ capture system were jointly constructed with Mitsubishi Heavy Industries, Ltd. at the Himeji No. 2 Power Station to study CO₂ capture technology for the separation and recovery of CO₂ from the exhaust gas. The demonstration will start in fiscal 2025 to develop higher-performance, energy-efficient CO₂ capture processes and absorbents compatible that can be adapted to the currently mainstream combined cycle system in thermal power generation facilities.

*3 Development of carbon recycling/next-generation thermal power generation technology / Research and development of CO2 capture technology / Research on application of advanced CO2 solid sorbents to treatment of coal-fired emissions

Establishment of a CCS value chain in the Sakai-Semboku area: Conducting joint studies with other business operators in the Sakai-Semboku area

We are conducting studies toward the establishment of a CCS value chain that encompasses separation, capture, transportation, and storage of CO₂. In the Sakai-Semboku area, engineering design and economic viability are being studied with Cosmo Energy Holdings Co., Ltd. and a project in which we participate was nominated as a candidate for the JOGMEC*⁴ 2024 Business Feasibility Study on Japanese Advanced CCS Project.

We will also conduct studies with a view to future cooperation with other business operators that have CO₂ emission sources in the Sakai-Semboku area.

*4 JOGMEC: Japan Organization for Metals and Energy Security

Conceptual diagram of CO2 capture, storage, and transportation



Technological development and demonstration of CO₂ marine transport at the Maizuru Power Station

We participate and cooperate in the NEDO project, R&D and Demonstration of CO₂ Ship Transportation Project*⁵ at the Maizuru Power Station where facilities designed for the project (for liquefaction, storage, and shipping of CO₂) and a demonstration vessel are used to (1) develop technology for integrated marine transport of liquefied CO₂, (2) demonstrate liquefied CO₂ marine transport, and (3) study the feasibility of CO₂ marine transport for CCUS. The demonstration is scheduled to start from fiscal 2024.



Project system in which the Group is involved

*5 CCUS R&D and demonstration project / Large-scale CCUS demonstration in Tomakomai / Demonstration of CO2 transport / Technological development and demonstration of CO2 marine transport

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Encouraging efficient energy use

With the goals of realizing energy conservation, cost cutting and CO₂ reduction for our customers and society, we are offering highefficiency systems that utilize renewable energy sources and heat pump technologies, as well as proposing effective operation procedures. We are also providing total support for energy management to customers and other members of society and undertaking activities that serve these purposes, including the services for visualizing energy use.

Social

The solution offered to residential customers is "total electric conversion," which, through efficient use of energy, can make our lives more comfortable and convenient. Specific products and services include an energy-efficient hot water supply system (EcoCute), safe, comfortable and convenient electric appliances (IH cooking heaters, etc.), and power consumption visualization (Hapi e-Miruden). The internet-based service Hapi e-Miruden monitors the amount and rate of electricity and gas consumed. By entering data on utility costs the system can automatically indicate the total household CO₂ emissions while providing useful information, such as tips on energy conservation according to registered equipment or power consumption patterns.

For corporate customers, we provide optimized energy systems and operational methods that meet diversified needs for efficient energy use, etc. These include various solution services such as SenaSon (Smart energy aggregate Solution) and Omaka-Save-Air, designed to provide comprehensive support for energy management. We also work with other group companies to provide a range of services such as energy conservation diagnoses and energy management support appropriate to the customer's facility usage patterns. We remain committed to helping our customers minimize their energy consumption, achieve cost savings, and reduce their CO₂ emissions.

• Greenhouse gas emission reduction initiatives

Kansai Transmission and Distribution, Inc. is committed to reducing greenhouse gas emissions by installing transformers with vegetable oil and SF₆ alternative gas appliances as part of its efforts toward zero-carbon emissions. As vegetable oil for transformer insulation absorbs CO₂ during cultivation of raw materials, it reduces CO₂ emissions in its life cycle. We are also utilizing eco-friendly dry air as an alternative to SF₆, the global warming potential (GWP) of which is about 23,500 times greater than that of CO₂.

Group companies' renewable energy programs

Kanden Energy Solution Co., Inc. leverages its solar and wind power plants to decarbonize energy systems. Moreover, as a comprehensive energy business operator, we are promoting distributed renewable energy sources, storage batteries, and energy conservation, particularly by upgrading and standardizing energy management systems, thereby helping customers and society achieve zero-carbon emissions.

Major achievements

Solar power generation

Arida Solar Power Station (Arida City, Wakayama Prefecture) This station is the Group's largest solar power station with about 150,000 solar panels installed across a large area.



Power output	29,700 kW
Generated energy	Approx. 31 GWh/annum (Equivalent to the annual consumption by 10,000 standard households)
CO ₂ emission reduction	Approx. 16,000 tonnes/annum*
Total site area	Approx. 45 ha
Commencement	October 2015

Wind power generation

Awaji Wind Power Station (Awaji City, Hyogo Prefecture) While harmonizing with the community, this station operates by utilizing the wind blowing through the hills in northern Awaji City.



Power output	12,000 kW (6 turbines @2,000 kW)
Generated energy	Approx. 20 GWh/annum (Equivalent to the annual consumption by 6,500 standard households)
$\rm CO_2 emission reduction$	Approx. 7,000 tonnes/annum*
Commencement	December 2012

* The reduction in CO₂ emissions was a figure calculated upon commencement of operations.

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Performance data

Greenhouse gas (GHG) emissions

		Unit	FY 2021	FY 2022	FY 2023
Direct greenhouse gas emissions (Scope 1)*1*2			2,377.1	2,304.3	1,987.5
	Energy-derived CO ₂		2,850.3	2,370.4	1,977.7
	Vehicle-emitted CO ₂		0.6	0.6	0.5
	N2O		2.3	2.3	5.3
	SF ₆		4.0	3.8	3.9
Indirect greenhouse ga	as emissions (Scope 2)*1*3		0.5	0.5	0.2
Other indirect greenho	puse gas emissions (Scope 3)*1*4		1,924.2	3,126.1	3,236.6
Category 1*5		248.5	255.0	1476	
			(143.4)	255.0	147.0
	Category 2 ^{*6}	- 10,000 t-CO2eq -	104.9	101.7	90.0
			(99.9)		
Ca Ca Ca	Category 3 ^{*7}		1,147.6	2,353.5	2,544.4
			(1,151.2)		
	Category 4 ^{*8}		0.0	0.0	0.0
	Category 5 ^{*9}		1.1	1.0	0.9
	Category 6 ^{*10}		0.2	0.2	0.2
	Category 7*11		0.6	0.6	0.6
	Category 8*12		_	_	—
	Category 9*12			—	—
	Category 10 ^{*12}		_	—	—
	Category 11* ¹³		421.4	A1A 1	452.8
	Category 11		(347.5)		432.0
	Category 12 ^{*12}				
	Category 13 ^{*12}			_	_
	Category 14*12			—	
	Category 15*12				

The amount of greenhouse gases emitted in our entire supply chain is calculated in accordance with the Basic Guidelines on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain (ver. 2.6) issued by the Ministry of the Environment and the Ministry of Economy, Trade and Industry. Emission intensity is calculated based on the Emission Intensity Database for Calculation of Greenhouse Gas Emissions Throughout the Supply Chain (ver. 3.4). Direct GHG emissions (energy-derived COs, SFA[®] and N-O) reported by electric companies in line with the Act on Promotion of Global Warming Countermeasures along with CO₂ emissions from transportation fuel use, which are excluded from the reported by electric operators in line with the Act on Promotion of Global Warming Countermeasures, indirect CO₂ emissions include emissions from electricity and heat purchased from other companies. Emission factors adjusted for each electric operator are used for electricity. The emission intensity of each supplier is used for heat from FY 2023.

*7

*3

*5

Indirect emissions not covered by Scope 1 or Scope 2 (emissions from other corporations related to the business activities of the company concerned) Σ ((amount data for products or services purchased)* × (emission intensity) * The amount of gas purchased for the gas business is included in Category 1 for FY 2021 and 2022 and readjusted with fuel and energy activities for FY 2023 for inclusion in Category 3. Nuclear power-related items (contributions to spent fuel reprocessing, etc.), however, are excluded from calculation as rational calculation is not possible without appropriate emission intensity available . at present.

 $\sum_{\substack{n \in \mathbb{N}^{3} \\ n \in \mathbb{N}^{3}$

- *8

*9

operator emission factor))*3
*1: Gas purchased for the gas business is reclassified into Category 3 from FY 2023 as fuel and an energy activity. The emission intensity is based on IDEA (ver. 3.4).
*2: CO₂ emissions from mining and transportation of electricity purchased from other companies
*3: CO₂ emissions from production of electricity sold to other companies
([fuel consumption by trucks, materials, and equipment) × (emission intensity)]
CO₂ emissions from 10 industrial waste disposal (landfill and recycling) and (2) industrial waste transportation*
* According to the Act on Rationalizing Energy Use and Shifting to Non-fossil Energy, CO₂ emissions from transportation as a consignor / outsourced transportation. Those from self-transportation
are categorized as Scope 1 emissions.
2 [(0) (waste disposal amount, excluding valuable resources) × (emission intensity by waste type and disposal method)] + (2) 2 {(fuel consumption) × (emission intensity)}

*10 ∑ {(number of employees) × (emission intensity)}
 *11 ∑ {(number of employees) × (number of operating days) × (emission intensity)}
 Calculated by work pattern and city classification
 *12 None applicable due to the nature of the business

*13 Σ {(total gas sales) \times (emission intensity)}

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GHG emissions, including values from group companies^{*1}

Sustai

		Unit	FY 2021	FY 2022	FY 2023
Direct greenhouse gas	emissions (Scope 1)*2		_	2,304.8	1,987.8
Indirect greenhouse g	as emissions (Scope 2)* ³		_	1.5	0.4
Other indirect greenho	puse gas emissions (Scope 3) ^{*4}		_	3,522.6	3,596.2
	Category 1*5			296.8	192.8
	Category 2 ^{*6}		_	129.1	127.2
	Category 3*7		_	2,646.0	2,766.5
	Category 4 ^{*8}		_	0.0	2.2
Category 5 ^{*9} Category 6 ^{*10} Category 7 ^{*11}	10,000 t-CO2eq	_	1.0	0.9	
		_	0.3	0.3	
		_	0.7	0.7	
	Category 8 ^{*15}		_	—	—
	Category 9* ¹⁵		_	—	_
	Category 10* ¹⁵		_	—	_
	Category 11*12			448.4	490.9
	Category 12 ^{*13}		_	0.1	0.1
	Category 13 ^{*14}		_	0.3	14.5
	Category 14*15		_	—	—
	Category 15 ^{*15}		_	_	_

The amount of greenhouse gases emitted in our entire supply chain is calculated in accordance with the Basic Guidelines on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain (ver. 2.6) issued by the Ministry of the Environment and the Ministry of Economy, Trade and Industry. Emission intensity is calculated based on the Emission Intensity Database for Calculation of Greenhouse Gas Emissions Throughout the Supply Chain (ver. 3.4). Those applicable include the Company and Kansai Transmission and Distribution, Inc. for FY 2021, with Kanden Energy Solution Co., Inc., Kanden Realty & Development Co., Ltd. and OPTAGE Inc. included for FY 2022 onward. Direct GHG emissions (energy-derived CO₂, SF₈⁺ and N:O) reported by electric companies in line with the Act on Promotion of Global Warming Countermeasures along with CO₂ emissions from transportation fuel use, which are excluded from the reporting obligations. *Based on calendar year Of emissions not covered by Scope 1 or Scope 2 (emissions from other corporations related to the business activities of the company concerned) Σ (famount data for products or services purchased) * x (emission intensity)! * The amount of gas purchased for the gas business is included in Category 1 for FY 2021 and 2022 and readjusted with fuel and energy activities for FY 2023 for inclusion in Category 3. Nuclear power-related items (contributions to spent fuel reprocessing, etc.), however, are excluded from calculation as rational calculation is not possible without appropriate emission intensity) are (lectricity purchased for the gas business is includied in Category 1 for FY 2021 and 2022 and readjusted with fuel and energy activities for FY 2023 for inclusion intensity available at present. Σ ((fuel and heat consumption) × (emission intensity)) * 1 + Σ (electricity purchased from calculation is not possible without appropriate emission intensity available at present. Σ ((fuel and heat consumption) × (emission intensity)) * 1 + Σ (electricity purchased fr

*2

*3

*5

*6 *7

operator emission factor)!** *: Gas purchased for the gas business is reclassified into Category 3 from FY 2023 as fuel and an energy activity. The emission intensity is based on IDEA (ver. 3.4). *2: CD: emissions from mining and transportation of electricity purchased from other companies *2: CD: emissions from production of electricity sold to other companies 5: (fuel consumption by trucks, materials, and equipment) × (emission intensity)} CO₂ emissions from sales of LNG transported by Kanden Energy Solution trucking is included from FY 2023, calculated according to: 2: (haul distance) + (gas mileage) × (unit calorific value) × (emission factor) × 44/12} CO₂ emissions from ① industrial waste disposal (landfill and recycling) and ② industrial waste transportation * *According to the Act on Rationalizing Energy Use and Shifting to Non-fossil Energy, CO₂ emissions from transportation as a consignor / outsourced transportation. Those from self-transportation *8

*9

 *According to the Act on Rationalizing Energy Use and Shifting to Non-fossil Energy, CO₂ emissions from transportation as a consignor / outsourced transportation. Those from self-transportation are categorized as Scope 1 emissions.
 Σ ((0) (waste disposal amount, excluding valuable resources) × (emission intensity by waste type and disposal method)} + ② Σ {(fuel consumption) × (emission intensity)}
 *10 Σ((number of employees) × (emission intensity))
 Calculated by work pattern and city classification
 *12 CO: emissions from ① gas sales, ② real estate sales and ③ communication services sales
 ① Σ ((total gas sales) × (emission intensity)) + ③ Σ {(number of real estate sales and ③ communication services sales
 ① Σ (total gas sales) × (emission intensity) + ④ Σ {(number of real estate sales and ③ communication services sales
 ① Σ ((total gas sales) × (emission intensity)) + ③ Σ {(number of real estate sales and ④ communication services sales
 ① Σ {(total gas sales) × (emission intensity)} + ④ Σ {(number of real estate sales and ④ communication services sales
 ① Σ {(total gas sales) × (emission intensity) + ④ Σ {(product sole sweight) * × (emission intensity) × (remaining useful legal life)) + ③ Σ {(number of registences or total floor area)) × (emission intensity)}
 *13 CO₂ emissions from ① real estate sales and ④ communication services sales
 ① Σ {(farount of real estate sales (m)) × (emission intensity)} + ④ Σ {(product sales weight) * × (emission intensity)} *Products other than sold out products are not included in calculation
 *14 Σ {(energy consumption) × (emission intensity)} + ④ Σ {(product sales weight) * × (emission intensity)} *Products other than sold out products are not included in calculation
 *14 Σ {(energy consumption) × (emission intensity)} * O Σ {(product sales weight) * × (emission intensity)} *Products other than sold ou *15 None applicable due to the nature of the business

Group's CO₂ emissions and their factors associated with power generation in Japan

	Unit	FY 2021	FY 2022	FY 2023
CO ₂ emissions ^{*1}	10,000 t-CO2	2,540	2,470	2,120
CO ₂ emission factor (at the generation end) (per power generation output) ^{*2}	kg-CO2/kWh	0.266	0.283	0.219

*1 CO2 emissions refer to those produced by fuel combustion at the Group's thermal power plants in Japan.

*2 CO₂ emission factor (at the generation end) corresponds CO₂ emissions per kWh of the Group's domestic power generation business.

• CO_2 emission factor (at the generation end) = CO_2 emissions of the Group's domestic power generation business \div amount of power generated

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• CO2 emissions and retail emission factors of the Company

	Unit	FY 2021	FY 2022	FY 2023
CO ₂ emissions (before adjustment) ^{*1}	10,000 + CO	3,006	4,012	3,733
CO ₂ emissions (after adjustment)* ²	10,000 t-CO2	3,099	4,689	4,704
CO ₂ emission factor (energy used) (before adjustment) (per amount of electric power sold)* ³		0.299	0.360	0.318
CO ₂ emission factor (energy used) (after adjustment) (per amount of electric power sold)* ³	KG-CO2/KVVII	0.308	0.420	0.401

*1 CO₂ emissions refer to those produced by fuel combustion at the thermal power plants and include those for power purchased from other corporations.

*2 Adjusted CO₂ emissions refer to values adjusted according to FIT, non-FIT non-fossil fuel power source procurement, and certified emission reduction in Japan and abroad.

*3 CO₂ emission factor (energy used) corresponds CO₂ emissions per kWh of the Kansai Electric Power Co. Inc. electricity used. •CO₂ emission factor (energy used) (before adjustment) = CO₂ emissions (before adjustment) ÷ amount of electric power sold •CO₂ emission factor (energy used) (after adjustment) = CO₂ emissions (after adjustment) ÷ amount of electric power sold

*1,2,3 The results for FY 2023 are provisional; the actual CO₂ emission factor will be officially announced by the government in accordance with the Law Concerning the Promotion of the Measures to Cope with Global Warming, etc.

Note: Figures representing the Company only

Greenhouse gases other than CO2

	Unit	FY 2021	FY 2022	FY 2023
N2O (dinitrogen oxide)*1	10,000 t CO.o.a	2.3	2.1	5.3
SF ₆ (sulfur hexafluoride)* ^{1*2}	10,000 t-CO2eq	3.9	4.0	3.9

*1 The results were first made public in fiscal 2010. CO2 equivalent

*2 SF6 emissions are based on the calendar year.

• Utilization rate of nuclear power facilities and net thermal efficiency of thermal power facilities

	Unit	FY 2021	FY 2022	FY 2023
Utilization rate of nuclear power facilities ^{*1}	%	61.0	48.5	76.6
Net thermal efficiency of thermal power facilities*2		48.2	48.1	49.4

*1 Utilization rate of nuclear power facilities = amount of power generated ÷ (permitted output × calendar hours) × 100

*2 Net thermal efficiency of thermal power facilities = (amount of power transmitted × quantity of heat per kWh) ÷ total amount of input heat (lowest heat value standard) × 100 Note: Figures representing the Company only

Energy consumption

		Unit	FY 2021	FY 2022	FY 2023
Total energy consumption*1		1,000 GJ	380,842	370,022	337,005
Thermal fuel consumption*2	Coal	1,000 t	3,597	3,294	3,453
	Heavy oil	1,000 kL	683	822	115
	Crude oil		176	183	46
	LNG	1,000 t	4,319	4,150	3,801
	Wood pellets	1,000 kL (heavy oil equivalent)	3	2	0
	Other		181	197	4
Fuels for nuclear power generation (weight of pre-irradiation uranium) st_2		tU	30	114	137

*1 These figures are reported to the government in accordance with the Act on Rationalizing Energy Use and Shifting to Non-fossil Energy. (Fossil fuel consumption, purchased electricity, and purchased heat)

*2 Figures representing the Company only