



Environmental Data 2025

<Data>

As of December 2nd, 2025

Environment-related data

○Environmental Management

Eco Action-related	Unit	FY2022	FY2023	FY2024
SF6 gas emissions	t	0.1	0.2	0.1
Transmission and distribution loss rate ^{※1※2}	%	5.11	6.89	6.44

※1 Transmission and distribution loss rates=(area transmission-end power-area consumption power(end use)-substation power)/area transmission-end power×100[%]

“Area” in this case refers to the entire supply area of Kansai Transmission and Distribution, Inc.

※2 Figures representing Kansai Transmission and Distribution, Inc. only

• Data of Kansai Transmission and Distribution, Inc. only

Item	Targets	Results		
		FY2022	FY2023	FY2024
Major environmental compliance violations	0	2	7	5

• Major violations of environmental compliance occurred or reported in each fiscal year are included.

• “Major violations of environmental compliance” are defined as “violations that have impacted (or could impact) the surrounding environment and/or human health.”

• None of these major environmental compliance violations resulted in fines due to penalization.

Transmission & Distribution Reliability	Unit	FY2022	FY2023	FY2024
SAIDI Transmission Network	in hours	0.016	0.012	0.051
SAIDI Distribution Network		0.098	0.143	0.084

• Figures representing Kansai Transmission and Distribution, Inc. only

Gas Leakage Rate	Unit	FY2022	FY2023	FY2024
Transportation	% leakages	0	0	0
Distribution		0.00533	0.01286	0.00558
Storage		0	0	0

• Figures representing Kansai Electric Power Co., Inc. only

Efficiency of Generation	Unit	FY2022	FY2023	FY2024
Efficiency coal plants	%	42.4	42.8	42.4
Efficiency open-/combined-cycle gas plants		54.6	54.6	54.4

• Figures representing Kansai Electric Power Co., Inc. only

Availability Factor of Plants	Unit	Avg. Availability Factor FY2024
Coal plants	%	69.3
Gas plants		82.5

• Figures representing Kansai Electric Power Co., Inc. only

Environment-related data

○Climate Change①

GHG emissions* ¹		Unit	FY2022	FY2023	FY2024
Direct greenhouse gas emissions (Scope 1)* ²			2,304.3	1,987.5	1,944.7
Indirect greenhouse gas emissions (Scope 2)* ³			0.5	0.2	0.0
Other indirect greenhouse gas emissions (Scope 3) ⁴			3,126.1	3,266.6	3,233.7
	Category 1* ⁵	10,000 t-CO ₂ eq	255.0	147.6	158.0
	Category 2* ⁶		101.7	90.0	109.7
	Category 3* ⁷		2,353.5	2,544.4	2,516.2
	Category 4* ⁸		0.0	0.0	0.2
	Category 5* ⁹		1.0	0.9	0.7
	Category 6* ¹⁰		0.2	0.2	0.2
	Category 7* ¹¹		0.6	0.6	0.6
	Category 8* ¹³		—	—	—
	Category 9* ¹³		—	—	—
	Category 10* ¹³		—	—	—
	Category 11* ¹²		414.1	452.8	448.0
	Category 12* ¹³				
	Category 13* ¹³				
	Category 14* ¹³				
	Category 15* ¹³				

*1 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. 2.7) 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.3.5). The Company and Kansai Transmission and Distribution, Inc. are included in the calculation.

*2 Direct GHG emissions (energy-derived CO₂, CH₄*¹, N₂O, and SF₆*²) 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. *1: Included in the calculation from FY 2024. *2: Based on calendar year

*3 Of emissions that should be 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. For electricity, emission factors adjusted for each electric operator are used. For heat, in principle, the emission intensity of each heat supplier is used from FY 2023.

*4 Indirect emissions not covered by Scope 1 or Scope 2 (emissions from other corporations related to the business activities of the company concerned)

*5 $\Sigma \{ (\text{amount data for products or services purchased}) \times (\text{emission intensity}) \}$ *The amount of gas purchased for the gas business is included in Category 1 for FY 2022 and readjusted with fuel and energy activities from 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.

*6 $\Sigma \{ (\text{capital expenditure}) \times (\text{emission intensity}) \}$ *Including intangible fixed assets (software)

*7 $\Sigma \{ (\text{fuel and heat consumption}) \times (\text{emission intensity}) \} *1 + \Sigma \{ (\text{electricity purchased from other companies}) \times (\text{emission intensity}) \} *2 + \Sigma \{ (\text{electricity sold to other companies}) \times (\text{individual electric operator emission factor}) \} *3$ *1: The amount of gas purchased for the gas business is readjusted with fuel and energy activities from FY 2023 for inclusion in Category 3. The emission intensity is based on IDEA (ver. 3.5), using Climate Change IPCC 2021 GWP 100a without LULUCF. *2: CO₂ emissions from mining and transportation of electricity purchased from other companies. Supply and demand adjustment transactions in power transmission and distribution are excluded from the calculation. *3: CO₂ emissions from production of electricity sold to other companies. *2, *3 CO₂ emissions associated with sales to other companies are deducted from those procured from other companies.

*8 $\Sigma \{ (\text{fuel consumption by trucks, materials, and equipment}) \times (\text{emission intensity}) \}$

9 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 are categorized as Scope 1 emissions.

$\text{①} \Sigma \{ (\text{waste disposal amount, excluding valuable resources}) \times (\text{emission intensity by waste type and disposal method}) \} + \text{②} \Sigma \{ (\text{fuel consumption}) \times (\text{emission intensity}) \}$

*10 $\Sigma \{ (\text{number of employees}) \times (\text{emission intensity}) \}$

*11 $\Sigma \{ (\text{number of employees}) \times (\text{number of operating days}) \times (\text{emission intensity}) \}$ Calculated by work pattern and city classification

*12 $\Sigma \{ (\text{total gas sales}) \times (\text{emission intensity}) \}$

*13 None applicable due to the nature of the business

Environment-related data

○Climate Change②

CO2 emissions and retail emission factors of the Company	Unit	Results		
		FY2022	FY2023	FY2024
CO2 emission factor (energy used)(after adjustment) (per amount of electric power sold) ^{*1}	kg-CO2/kWh	0.420	0.401	0.396

^{*1} CO2 emission factor corresponds CO2 emissions per kWh of the Kansai Electric Power Co., Inc. electricity used.

The results for FY 2024 are provisional; the actual CO2 emission factor will be officially announced by the government in accordance with the Act on Promotion of Global Warming Countermeasures, etc

Total energy consumption	Unit	Results		
		FY2022	FY2023	FY2024
Total non-renewable energy consumption	MWh	101,354,515	118,429,340	128,397,094
Total renewable energy consumption		1,005,650	564,870	311,421

Environment-related data

○Resource Circulation

Amount of industrial and other waste*1*2		Unit	FY2022	FY2023	FY2024
Amount of industrial and other waste		1,000t	671.8	609.8	526.8
· Soot particles (heavy/crude oil ash, coal ash, etc.)			383.7	340.8	288.3
· Sludge (desulfogypsum, wastewater processing sludge, etc.)			135.8	101.2	93.4
· Cinders			29.7	41.0	28.8
· Demolition debris (waste concrete utility poles, etc.)			54.6	48.1	42.3
· Metal scraps			25.5	26.4	37.9
· Glass/ceramic scraps (thermal insulation scraps, insulator scraps, etc.)			7.2	7.6	5.6
· Waste oil			3.4	4.2	2.6
· Waste plastic			3.4	2.5	4.1
· (Repeated) Ash and gypsum			537.9	459.1	400.2
· Other			28.6	37.5	23.9
(Repeated) Special controlled industrial waste			23.0	17.6	16.9
Ash and gypsum waste recycling rate*3			%	99.9	100

*1 The totals may not match up due to rounding.

*2 The figures include the results of group companies (excluding those of some group companies)

*3 Industrial waste recycling rate = [(amount of industrial and other waste - amount of landfill disposal) ÷ (amount of industrial and other waste)] × 100

Dust Emissions	Unit	FY2022	FY2023	FY2024
Direct dust emissions	t	269	264	118

○Pollution Prevention

Atmospheric emissions and drainage	Unit	FY2022	FY2023	FY2024
SOx emissions ^{※1}	t	2,111	1,905	1,638
NOx emissions ^{※2}	t	3,875	3,524	3,402

※1 This is calculated from amounts of sulfur in fuel as well as SOx concentrations in gas emissions (measured values) and gas emission volumes.

※2 This is calculated from SOx concentrations in gas emissions (measured values) and gas emission volumes.

○Water Resources

Water consumption ^{※1}	Unit	FY2022	FY2023	FY2024
Total net fresh water consumption ^{※2}	million m3	5.40	4.35	4.38

※1 The figures include the results of group companies (excluding those of some group companies)

※2 Excluding desalinated seawater

Environmental protection records at thermal power plants ①

Item				Sakaiko Power Station	Sakai LNG Center	Nanko Power Station	Kansai International Airport Energy Center	Maizuru Power Station	Gobo Power Station	Himeji No.1 Power Station 5,6U	Himeji No.2 Power Station	Ako Power Station	
Main fuel				LNG	LNG	Heavy/ crude oil	Coal	Heavy/ crude oil	LNG	LNG	LNG	Heavy/ crude oil	
Air quality related	Sulfur oxide	Amount emitted hourly (m3N/h)	Air Pollution Control Act (total amount regulation)	84	-	98	13	515※1	6,510※3	122	195	2,158※3	
			Agreed value	-	-	-	-	255	184	-	-	180	
			Actual value	-	-	-	-	160※4	54	-	-	35	
		Amount emitted daily (t/d)	Agreed value	10.1	-	-	-	-	-	-	-	-	-
			Actual value	-	-	-	-	-	-	-	-	-	-
		Amount emitted annually (t/y)	Agreed value	940	-	-	-	1,523×103 m3N	970×103m 3N	-	-	-	650×103m 3N
	Actual value		-	-	-	-	564×103m 3N	3,764×103 m3N	-	-	-	6.8×103m3 N	
	Nitrogen oxide	Amount emitted hourly (m3N/h)	Air Pollution Control Act (total amount regulation)	625	-	255	-	-	-	-	-	-	-
			Agreed value	-	-	-	-	244	110	104	72	94	
			Actual value	45.3	-	25	-	213	35	61	65	43	
		Amount emitted daily (t/d)	Agreed value	7.7	-	1.8	-	-	-	-	-	-	-
			Actual value	2.1	-	0.7	0	-	-	-	-	-	-
		Amount emitted annually (t/y)	Agreed value	1,420	-	400	-	1,457×103 m3N	560×103m 3N	590×103m 3N	505×103m 3N	340×103m 3N	
	Actual value		417.1	-	42	0.015	1,024×103 m3N	2,503×103 m3N	142,278×1 03m3N	259×103m 3N	18.0×103m 3N		
	Soot particles	Emission concentration (g/m3N)	Air Pollution Control Act (total amount regulation)	0.04	0.05	0.03	0.1	0.1	0.07	0.05	0.05	0.05	
			Agreed value	0.02	-	Not emitted	-	0.009	0.01	-	-	0.015	
			Actual value	<0.002	-	<0.002	-	0.004	0.006	<0.002	-	0.002	

Environmental protection records at thermal power plants ②

Item			Sakaiko Power Station	Sakai LNG Center	Nanko Power Station	Kansai International Airport Energy Center	Maizuru Power Station	Gobo Power Station	Himeji No.1 Power Station 5,6U	Himeji No.2 Power Station	Ako Power Station	
Water quality related	Hydrogen ion concentration index	Air Pollution Control Act (total amount regulation)	5.8~8.6	-	5.0~9.0※2	-	5.0~9.0	-	5.0~9.0	5.0~9.0	5.0~9.0	
		Agreed value	-	-	-	-	5.8~8.6	5.8~8.6	5.8~8.6	5.8~8.6	5.8~8.6	
		Actual value	7.7~7.8	-	8.1	-	6.5~8.0	6.2~7.9	6.9~7.9	6.9~7.8	6.6~7.6	
	Chemical oxygen demand	Highest concentration (mg/L)	Water pollution Control Act and regulations	12	-	-	-	160	-	70	70	70
			Agreed value	-	-	-	-	15	10	15	15	15
			Actual value	2	-	-	-	5.8	5.1	2.4	5.6	1.6
		Pollution load amount (kg/d)	Water pollution Control Act and regulations	209.2	-	-	-	-	-	38.8	54.6	85.5
			Agreed value	-	-	-	-	22	36.8	15.2	35	22.4
			Actual value	16.09	-	-	-	6.39	6.1	2.3	11.7	2.2
	Amount of suspended solids	Highest concentration (mg/L)	Water pollution Control Act and regulations	50	-	600※2	-	200	-	90	90	90
			Agreed value	-	-	-	-	15	20	20	20	20
			Actual value	<5	-	17	-	<1	2.4	3	5	<1
	Amount of inclusion of normal hexane extractable substances	Highest concentration (mg/L)	Water pollution Control Act and regulations	2	-	4※2	-	5	-	5	5	5
			Agreed value	-	-	-	-	1	1	1	1	1
			Actual value	<1.0	-	<1.0	-	<1.0	0.2	0.2	0.2	<0.5

※1 Regulation in rules for the execution of ordinances to protect and nurture the environment of Kyoto Prefecture

※2 Regulated value of Osaka City sewer ordinance execution rules

※3 Regulated K value

※4 The estimated maximum value is approximately 640 m³N/h, attributable to damage to desulfurization equipment at Unit 1 on May 8, 2024
 "(estimated as it exceeded the meter's measurement limit)."

• Figures representing Kansai Electric Power Co., Inc. only

Reporting Coverage

■ Reporting coverage of Kansai Electric Power and its 92 consolidated subsidiaries (as of the end of March 2025)

(1) Specific data of environmental impact including electricity consumption in an office is grasped and reported in this report
 ⇒ **95.8%**

<Explanation>

It represents the ratio of companies that are performing Eco-Action among 90 consolidated subsidiaries (ratio of sales).

• <Calculation Method>

(Sales of Kansai Electric Power in FY 2024) +
 (Sales of 36 consolidated subsidiaries in FY 2024 that are performing Eco-Action as of the end of March 2025)

(Sales of Kansai Electric Power in FY 2024) +
 (sales of 92 consolidated subsidiaries in FY 2024)

* Eco-Action

It is the environmental action plan including the reducing office electricity consumption and office water consumption