

Non-financial data (environmental)

Total CO₂ emissions (Scope 1/2/3, JR-West Group)

Unit: Tons-CO₂

Item	Target and calculation method*3	FY2023			FY2024			FY2025*1		
		Non-consolidated	Group companies*2	Total	Non-consolidated	Group companies*2	Total	Non-consolidated	Group companies*2	Total
(Restated) Scope 1+2+3	Sum of Scope 1, 2, and 3	3,084,498	1,551,292	4,635,790	3,470,410	1,829,742	5,300,151	2,862,228★	3,493,589★	6,355,817★
(Restated) Scope 1+2	Sum of Scope 1 and 2	1,285,956	206,248	1,492,204	1,552,325	229,975	1,782,300	1,485,833★	212,628★	1,698,460★
Scope 1	Total CO ₂ directly emitted by the JR-West Group from combustion of fuels, such as diesel oil for diesel train operation, and kerosene and heavy oil for operational purposes (includes the CO ₂ equivalent mass for leaked fluorocarbons)	79,795	64,808	144,604	78,182	62,623	140,805	77,149★	59,739★	136,888★
Scope 2*4	Total CO ₂ emitted indirectly by the JR-West Group from the use of power and heat purchased from power companies and others	1,206,160	141,440	1,347,600	1,474,144	167,352	1,641,495	1,408,684★	152,889★	1,561,572★
Scope 3	Total CO ₂ emitted from other companies in relation to the JR-West Group's business activities (indirect emissions other than Scope 1 and Scope 2)	1,798,542	1,345,043	3,143,585	1,918,084	1,599,767	3,517,851	1,376,396★	3,280,961★	4,657,356★
Cat.1 Purchased goods and services	Calculated by multiplying the annual transaction amount of purchased products, services, etc., by the emission factor of each supplier Deduction for intergroup transactions	845,897	853,667	1,699,564	973,685	1,001,493	1,975,177	917,186★	2,552,569★	3,469,755★
Cat.2 Capital goods	Calculated by multiplying the annual transaction amount, e.g., for purchased equipment, by the emission factor of each supplier Deduction for intergroup transactions	728,225	230,620	958,845	710,858	327,567	1,038,425	215,043★	143,680★	358,722★
Cat.3 Fuel- and energy-related activities not included in Scope 1 or Scope 2	Calculated by multiplying annual Scope 1 and 2 energy consumption by the relevant emission factor	210,138	52,159	262,297	219,916	51,901	271,816	215,583★	42,445★	258,028★
Cat.4 Upstream transportation and distribution	Calculated by multiplying the transaction amount to the delivery company by the relevant emission factor If transportation costs cannot be determined, calculated by multiplying the estimated logistics costs by the relevant emission factor	-	-	-	-	-	-	13,994★	152,163★	166,157★
Cat.5 Waste generated in operations	Calculated by multiplying the annual amount of waste (by type and by treatment method) by the relevant emission factor	6,207	23,586	29,793	5,726	37,089	42,814	7,014★	28,217★	35,231★
Cat.6 Business travel	Calculated by multiplying the number of employees, total number of business travel days, or transportation costs for each transportation method by the relevant emission factor	2,833	3,022	5,855	2,779	3,007	5,786	1,334★	4,706★	6,039★
Cat.7 Employee commuting	Calculated by multiplying the number of employees, number of working days, or transportation costs for each transportation method by the relevant emission factor	5,242	5,569	10,811	5,121	5,547	10,668	6,242★	11,730★	17,972★
Cat.8 Upstream leased assets	Calculated by multiplying annual energy consumption/total floor area of rental property by the relevant emission factor	-	-	-	-	-	-	-	364★	364★
Cat.11 Use of sold products	Calculated by multiplying the amount of activity (calculated based on actual sales volume and standard usage scenarios, e.g., number of uses, total floor area) by the relevant emission factor	-	9,201	9,201	-	15,865	15,865	-	281,623★	281,623★
Cat.12 End-of-life treatment of sold products*5	Calculated by multiplying the amount of waste generated from sold real estate (structure, total floor area, etc.), products, food and beverages, and miscellaneous goods (e.g., component materials) by the relevant emission factor	-	2,089	2,089	-	853	853	-	24,896★	24,896★
Cat.13 Downstream leased assets	For buildings, calculated by multiplying the total floor area of rental property by the relevant emission factor For leased vehicles and other assets other than buildings, the total amount is calculated by multiplying the energy consumption per leased asset by the number of leased assets owned, and this is then multiplied by the relevant emission factor For leased vehicles and other assets other than buildings, calculated by multiplying the number of leased assets by the relevant emission factor	-	165,131	165,131	-	156,446	156,446	-	24,586★	24,586★
Cat.15 Investments	Calculated by multiplying the estimated emissions from real estate managed as an own investment/asset management business by the own investment amount/investment amount relative to the total investment amount	-	-	-	-	-	-	-	13,983★	13,983★

*1 Items covered by third-party assurance on pp.121 and 122 are marked with a ★.
*2 The scope of calculation (boundary) for group companies has been changed to include only all consolidated subsidiaries for FY2025. Up through FY2023 and FY2024, this encompasses all consolidated subsidiaries and Osaka Energy Service Co., Ltd.
*3 Based on the Act on Promotion of Global Warming Countermeasures, scope- and category-specific calculation of CO₂ emissions is carried out in line with the Basic Guidelines on Accounting for Greenhouse Gas Emissions Throughout the Supply Chain ver. 2.7 published by the Ministry of Economy, Trade and Industry and the Ministry of the Environment, and the GHG Protocol.
In addition, for Scope 3 for FY2025, in order to improve data accuracy, categories 1 and 2 have been changed to a calculation method using the relevant emission factor of each supplier, and other categories have also been changed to the "Target and calculation method" shown in the table above.
For FY2023 and FY2024, the previous values are posted as is.
*4 Scope 2 CO₂ emissions are market standards.

Note: Cat. 9, 10, 14, of Scope 3 are omitted for the following reasons.
Cat.9 (downstream transportation and distribution), Cat.10 (processing of sold products): Because of the nature of the JR-West Group's business, the impact from this has been determined to be negligible.
Cat.14 (franchises): Because franchise business is not part of the JR-West Group's business.

Fiscal 2025 environmental impact of business activities (consolidated)

Figures in [] are the non-consolidated amount of the consolidated figures.

INPUT (Energy usage)*1*2		
Total energy consumption (thousand GJ)*3	31,630★	[27,588★]
Electricity (billion kWh)	33.7	[30.6]
Kerosene (kl)	2,824	[2,743]
Gasoline (kl)	2,325	[809]
Propane gas (tons)	438	[426]
Diesel oil (kl)	32,931	[22,877]
Class A heavy oil (kl)	1,035	[352]
Utility gas (thousand m ³)	15,511	[1,947]

OUTPUT (Industrial waste)*1*2	
Used materials (facility construction) (thousand tons)	94.5
Recycled volume (thousand tons)	89.8
Recycled rate (%)	95.1
Used materials (rolling stock) (thousand tons)	32.7
Recycled volume (thousand tons)	32.2
Recycled rate (%)	98.6
Industrial waste*4 (thousand tons)	187.3★ [10.7★]
Of which is plastic industrial waste (thousand tons)*5	10.3 [5.7]
Hazardous waste (PCBs) (tons)	913
Station and onboard garbage (thousand tons)	9.7
Of which is recyclable (thousand tons)	3.0
Recycled volume (thousand tons)	2.9
Recycled rate (%)	99.3
Amount of products provided that use specified plastics (tons)*6	50.2 [0]

*1 The scope of calculation (boundary) for group companies has been changed to include only all consolidated subsidiaries for FY2025. Up through FY2023 and FY2024, this encompasses all consolidated subsidiaries and Osaka Energy Service Co., Ltd.
*2 Input (energy usage) is calculated with reference to the Greenhouse Gas Emissions Calculation and Reporting Manual provided by the Ministry of the Environment and the Ministry of Economy, Trade and Industry and the Act on Rationalizing Energy Use and Shifting to Non-Fossil Energy (Output (industrial waste) is calculated with reference to the Waste Management and Public Cleansing Act (Waste Management Act).
*3 Total energy consumption is the sum of energy consumption for electricity, fuel, and heat consumption.
*4 Industrial waste refers to waste as defined by the Waste Management Act (waste discharged by businesses). It is calculated by summing the figures listed in manifests stipulated by the Waste Management Act. Manifest: A management form that is required to be issued when outsourcing the transportation and treatment of waste to an outside company under the Waste Management Act. It gives the weight of the waste, the treatment method, and other information.
*5 Group company output includes waste generated from construction work ordered by JR-West. The weight of mixed waste containing waste plastic and other waste that cannot be sorted into other types of waste is included in the total for plastic industrial waste. Group company output includes waste generated from construction work ordered by JR-West.
*6 The amount of products provided that use specified plastics is calculated from the total amount of target products provided in target industries under the Plastic Resource Circulation Act.

Water resources

Unit: Thousand m³

Item	Target and calculation method*3	FY2023			FY2024			FY2025*1		
		Non-consolidated	Group companies*2	Total	Non-consolidated	Group companies*2	Total	Non-consolidated	Group companies*2	Total
Total water withdrawal	Total for public water supply, groundwater, and industrial-use water	3,988	4,183	8,171	4,115	4,608	8,723	4,723★	4,821★	9,544★
Public water supply	Aggregate the usage amount on the bill from the waterworks bureau	3,082	3,344	6,425	3,265	3,756	7,022	3,924	4,009	7,932
Groundwater	Aggregate the measured values from meters managed in accordance with the Measurement Act	606	838	1,444	607	851	1,458	593	811	1,405
Industrial-use water	Aggregate the usage amount on the bill from the waterworks bureau	300	1	301	243	0	243	206	0	207
Recycled water		124	141	264	136	59	195	142	47	189
Total amount of wastewater	Total discharge into rivers and sewerage	4,028	4,019	8,047	4,070	4,483	8,554	4,294	4,744	9,037
Total discharge into rivers		410	28	438	442	34	476	434	24	457
Sewerage		3,618	3,991	7,609	3,629	4,449	8,078	3,860	4,720	8,580

*1 Items covered by third-party assurance on pp.121 and 122 are marked with a ★.
*2 The scope of calculation (boundary) for group companies has been changed to include only all consolidated subsidiaries for FY2025. Up through FY2023 and FY2024, this encompasses all consolidated subsidiaries and Osaka Energy Service Co., Ltd.
*3 Calculations are made with reference to the Environmental Reporting Guidelines of the Ministry of the Environment. Additionally, in order to improve the accuracy of the data for FY2025 on a non-consolidated basis, we have changed the aggregation method to one based on the amount of invoice usage that is paid at once in one lump sum for the entire company.
For FY2023 and FY2024, the previous values are posted as is.