Social

Kansai Electric Power Co., Inc.

Kansai Transmission and Distribution, Inc.

Governance

Resource Circulation

ENVIRONMENT



Policy and Concept

In accordance with the aims stated in the Kansai Electric Power Group Environmental Policy, we are working actively to reduce emissions and recover resources. For industrial waste generated from our business activities, our Group is undertaking proactive 3R (Reduce, Reuse, Recycle) efforts with the goal of achieving zero emissions. For general waste such as copy paper and other office waste, we are also conducting 3R efforts with sorting as the foundation in each business place.

<Kansai Electric Power Group Environmental Policy 3. Promoting resource circulation>

3. Promoting resource circulation

At the Kansai Electric Power Group, recognizing that natural resources are limited, we advance efforts toward resource circulation in society as a whole. Our efforts include reducing natural resource consumption in our business activities, proactively promoting 3R (reduce, reuse, recycle) practices, and providing products and services that contribute to resource circulation.



Efforts

Efforts to achieve zero emissions

The principal types of industrial waste generated by our Group include coal ash from coal-fired thermal power plants and concrete pole fragments remaining from power grid construction. In order to achieve zero emissions, we set a target for our Group of "a 99.5% or higher recycling rate" for industrial waste, and we are advancing efforts that include recycling all coal ash as raw material for cement and paving material for roads, for example. We achieved a 99.8% recycling rate in fiscal 2022, which marks the 13th consecutive year that we have reached our target since fiscal 2010. We are also working to reduce and recycle general waste (copy paper, etc.) from our offices.

• Efforts to reduce plastic

In compliance with the Plastic Resource Circulation Act, which took effect on April 1, 2022, we monitor the amount of industrial waste (including plastic-containing products) and set targets to reduce their amount for reduction purposes and for resource recycling. We also recycle plastic waste generated from facility operations and construction work, reduce the use of plastic bags at in-house shops in the head office, and encourage employees to bring their own reusable drink bottles. In addition, the head office launched a "horizontal recycling*" program in April 2023 to recycle plastic bottles collected from sections of its premises. * Recycling where products are recycled to manufacture the same products

Results and targets based on the Plastic Resource Circulation Act

Results in fiscal 2022 of waste generated: 247.8 tonnes by Kansai Electric Power and 1,619.8 tonnes by Kansai Transmission and Distribution Targets for fiscal 2023: Reduce and recycle waste plastics to as great a degree as possible.

Changes in the amount of industrial waste generated and the recycling rates



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

Sustainability for the Kansai Electric Power Group	Environment		Social		Governance		
	Kansai Electric Pow	er Group	Kansai Electric Power Co., In	nc.	Kansai Transmission and Distribution, Inc.		

Promoting green procurement

Our Group is working on green procurement to promote resource circulation in society.

Green procurement concept

- (1) Given that all procured goods or all machines and methods used for construction have an environmental impact, wherever possible we will opt for environmentally friendly office supplies, materials, equipment and construction machines/methods.
- (2) The concept is to "rethink" whether goods to be purchased are necessary at all, "reduce" the amount of purchase as much as possible, "reuse" unnecessary goods at other locations (including extended use of purchased goods), "recycle" resources and "repair" things wherever possible.

Performance data

Waste-related ^{*1*2}		Unit	FY 2020	FY 2021	FY 2022
Amount of industrial and other waste			566.7	680.8	614.4
	Amount of Industrial and other waste		(608.8)	(762.7)	(671.8)
	Soot particles (heavy/crude oil ach coal ach etc.)		381.2	447.3	383.6
	Soot particles (heavy/crude oil ash, coal ash, etc.)		(381.4)	(447.4)	(383.7)
•	Sludge (desulfogypsum, wastewater processing sludge, etc.) Cinders		91.3	129.5	131.4
			(97.5)	(163.7)	(135.8)
			30.8	35.6	29.4
			(31.0)	(35.8)	(29.7)
	Demolition debris (waste concrete utility polos, etc.)		17.1	16.4	15.0
	Demolition debris (waste concrete utility poles, etc.)		(38.0)	(53.8)	(54.6)
	Motal scraps		26.6	24.5	24.5
•	Metal scraps Glass/ceramic scraps (thermal insulation scraps, insulator scraps, etc.) Waste oil		(28.7)	(25.5)	(25.5)
•			2.1	2.9	2.5
			(4.0)	(5.6)	(7.2)
			4.5	3.4	3.0
•			(4.9)	(3.8)	(3.4)
			1.1	1.3	1.9
•	Waste plastic		(2.5)	(2.5)	(3.4)
			498.6	608.7	537.1
•	(Repeated) Ash and gypsum		(499.0)	(609.0)	(537.9)
			12.0	19.9	23.1
•	Other		(20.5)	(24.6)	(28.6)
			11.2	19.5	22.6
	(Repeated) Special controlled industrial waste		(11.5)	(19.6)	(23.0)
			0.9	1.2	1.4
Amount of industria	Amount of industrial waste for landfill disposal		(14.0)	(17.7)	(7.6)
	Glass/ceramic scraps (thermal insulation scraps, insulator scraps, etc.) Sludge (wastewater processing sludge, etc.) Demolition debris Cinders Waste plastic		0.15	0.66	0.55
			(1.5)	(0.9)	(1.0)
			0.03	0.02	0.02
•			(6.2)	(4.3)	(1.4)
			0.00	0.02	0.00
•			(0.4)	(6.4)	(0.5)
			0.00	0.00	0.03
•			(0.2)	(0.2)	(0.3)
			0.08	0.35	0.29
•			(0.4)	(1.5)	(0.7)
Metal scraps Other (Repeated) Total amount of disposal,			0.02	0.01	0.32
			(1.3)	(1.0)	(0.4)
			0.61	0.16	0.16
			(3.99)	(3.12)	(3.36)
			0.32	1.10	1.24
	excluding special controlled industrial waste		(10.8)	(15.5)	(7.1)
Industrial waste recycling rate*3			99.8	99.8	99.8
			(97.7)	(97.9)	(99.9)
	Ash and gypsum waste recycling rate*3		100	100	100
			(99.9)	(99.9)	(99.9)
			(99.9)	(99.9)	(99.9)

 $\boldsymbol{\ast}1$ The totals may not match up due to rounding.

*2 The figures in parentheses 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

Note: Reporting coverage is shown on page 26.