

# Planet

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## Establishment of a new roadmap to reduce GHG emissions

Planet	GHG emissions	Scope	Benchmarks	Medium- to Long-Term Targets
			2021 emissions 3,020 thousand tons-CO <sub>2</sub> e	- 2035: 63% reduction compared to 2021 - 2050: Carbon Net Zero
		Scope 1 + 2		
		Scope 3 (Category1)	2021 emissions 2,941 thousand tons-CO <sub>2</sub> e	- 2035: 37.5% reduction compared to 2021

## "PASSION 2026" Priority Issue Targets and Fiscal 2023 Results

			Benchmarks	FY2023		FY2024	FY2026
				Targets	Results	Targets	Medium-Term Plan
	GHG emissions	Scope 1 + 2	2021 emissions 3,020 thousand tons-CO <sub>2</sub> e	3,230 thousand tons-CO <sub>2</sub> e or less <sup>*1</sup>	2,700 thousand tons-CO <sub>2</sub> e	3,020 thousand tons-CO <sub>2</sub> e or less	
		Scope 3	—	- Identify sources accounting for two-thirds or more of Group-wide emissions - Set numerical reduction targets for 2024-2026	- Under way to identify sources accounting for two-thirds or more of Group-wide emissions	- Identify sources accounting for two-thirds or more of Group-wide emissions - Set emission reduction targets	

<sup>\*1</sup> Regardless of the new target setting, FY2023 target is based on the 2019 emissions, which were used as a benchmark at the formulation of "PASSION 2026"

Environmental Management

Global Warming Prevention

Updated

Reduction of Environmental Load

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## Environmental Accounting

- Total investments for the current period: 31.9 billion Japanese yen
- Total research and development expenses for the current period: 15.2 billion Japanese yen

## Costs for Environmental Conservation (Millions of Japanese yen)

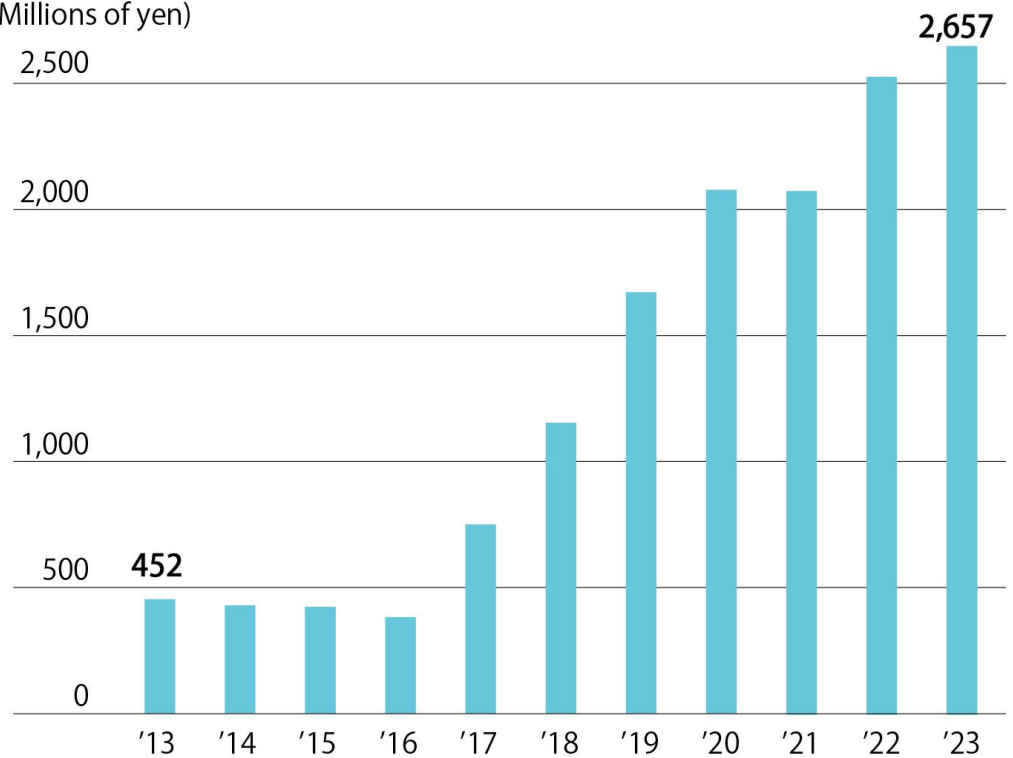
Category		Investments	Cost	Principal activities
Costs within the production sites	Pollution prevention costs	1,714	2,275	Operating cost of environmental facilities, measures to prevent emissions of toxic chemical substances
	Global environmental conservation costs	33	29	Cost of energy conservation activities
	Resource recycling costs	641	549	Recycling costs and waste processing costs
	<b>Total</b>	<b>2,388</b>	<b>2,853</b>	
Upstream and downstream costs		-	80	Recycling and reuse of packaging materials, improvement of container packaging
Administrative costs		63	130	ISO 14001, environmental measurements, environmental education

Category	Investments	Cost	Principal activities
Research and development costs	206	94	Development of environmentally friendly products
Social activity costs	-	0	Afforestation, beautification, provision of environmental information to host community residents
Environmental damage costs	-	-	
<b>Total</b>	<b>2,657</b>	<b>3,157</b>	

Note: Environmental damage costs are included in pollution prevention costs.

## Trends in Capital Expenditures for Environmental Investments

(Millions of yen)



【Notes】 As a result of the change in months in each fiscal year, the environmental data and information contained in this report including graphs are as follows.

・ Before fiscal 2013: Actuals in 12 months from April to March of the following year

・ Fiscal 2014: Actuals for 9 months from April to December + Actuals for January to March 2014 (or estimated value) [Partially overlaps with fiscal 2013]

・ After fiscal 2015 : Actuals for 12 months from January to December

## Environmental Conservation Effects (Kuraray)

Category		Unit	FY2021	FY2022 <sup>(1)</sup>	FY2023 <sup>(2)</sup>	Change [(2)-(1)]
Pollution prevention activities	SOx emissions	Tons	395	338	440	102
	NOx emissions	Tons	1,662	1,497	998	▲499
	Soot and dust emissions	Tons	31	44	34	▲10
	PRTR substance emissions	Tons	862	774	671	▲103

Category		Unit	FY2021	FY2022 <sup>(1)</sup>	FY2023 <sup>(2)</sup>	Change [(2)-(1)]
	COD load	Tons	482	468	414	▲54
Global environment conservation activities	GHG emissions	thousand tons-CO <sub>2</sub> e	1,331	1,227	1,136	▲91
	Energy consumption	1,000 kL (crude oil equivalent)	447	425	390	▲35
Resource recycling activities	Externally disposed industrial waste without effective use	Tons	1,851	1,960	1,849	▲111
	Rate of effective use of waste	%	97.0	96.3	95.8	▲0.5
	Water resource usage*	million m <sup>3</sup>	70	67	61	▲6
	Total discharge of wastewater*	million m <sup>3</sup>	64	62	54	▲8

\* Excluding seawater

For detailed environmental data, please visit the site below.

> [Environmental data](#)

#### (1) Basis for environmental accounting calculations

- Reporting period: January 1, 2023 to December 31, 2023
- Scope covered: Kuraray

#### (2) Environmental conservation cost calculation criteria

- Depreciation: Straight-line method
- Standard for allocating costs: In principle, 100% of costs are allocated to individual environmental conservation items. However, a portion of costs is allocated on a pro-rata basis.

#### (3) Standard for calculating environmental conservation effects

- Effects are calculated in a simple comparison with the total environmental load of the previous fiscal year and are not adjusted for production volume.

#### (4) Standard for calculating economic effects (benefits) of environmental conservation measures.

- Although material effects such as income from recycling are known, benefits are deducted from environmental conservation costs.

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