

Planet

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Code of Conduct

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Planet priority measures in the Sustainability Medium-Term Plan

Planet			Benchmarks	2024	2026
	GHG emissions	Scope1+2	Year 2019:3.2 million tons	No increase in emissions compared to 2019	
		Scope3	Year 2019:0.9 million tons (Japan)		
Target the entire Group and identify the category dominates for more than two-thirds of emission In fiscal 2023, formulate numerical reduction targets for fiscal 2024 and fiscal 2026					

Targets for 2022

		2022	
Planet	GHG emissions	Scope1+2	No increase in emissions compared to 2019
		Scope3	Identify the category dominates for more than two-thirds of emission

Environmental Management

Global Warming Prevention

Updated

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Environmental Accounting

- Total investments for the current period: ¥27.1 billion
- Total research and development expenses for the current period: ¥14.0 billion

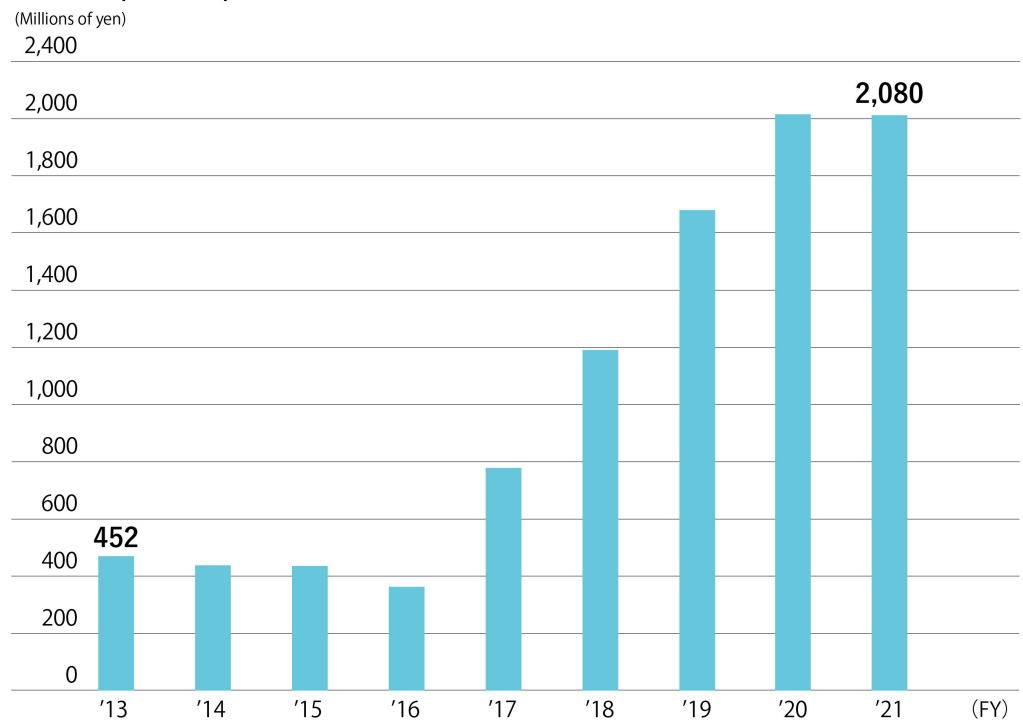
Costs for Environmental Conservation (Millions of yen)

Category		Investments	Cost	Principal activities
Costs within the production sites	Pollution prevention costs	1,077	1,631	Operating cost of environmental facilities, measures to prevent emissions of toxic chemical substances
	Global environmental conservation costs	25	15	Cost of energy conservation activities
	Resource recycling costs	689	776	Recycling costs and waste processing costs
	Total	1,790	2,422	
Upstream and downstream costs		-	89	Recycling and reuse of packaging materials, improvement of container packaging
Administrative costs		57	121	ISO 14001, environmental measurements, environmental education

Category	Investments	Cost	Principal activities
Research and development costs	233	189	Development of environmentally friendly products
Social activity costs	-	0	Afforestation, beautification, provision of environmental information to host community residents
Environmental damage costs	-	-	
Total	2,080	2,821	

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

Trends in Capital Expenditures for Environmental Investments



【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	FY2019	FY2020 ⁽¹⁾	FY2021 ⁽²⁾	Change [(2)-(1)]
Pollution prevention activities	SOx emissions	Tons	550	280	395	115
	NOx emissions	Tons	1,770	1,623	1,662	39
	Soot and dust emissions	Tons	31	32	31	▲ 1
	PRTR substance emissions	Tons	855	719	862	143
	COD load	Tons	512	516	482	▲ 34

Category		Unit	FY2019	FY2020 ⁽¹⁾	FY2021 ⁽²⁾	Change [(2)-(1)]
Global environment conservation activities	GHG emissions	1,000 tons-CO ₂	1,301	1,221	1,331	110
	Energy consumption	1,000 kL (crude oil equivalent)	448	418	447	29
Resource recycling activities	Externally disposed industrial waste without effective use	Tons	1,735	1,772	1,851	79
	Rate of effective use of waste	%	97.1	97.2	97.0	▲ 0.2
	Water resource usage*	million m ³	71	71	70	▲ 1
	Total discharge of wastewater*	million m ³	61	65	64	▲ 1

* Excluding seawater

For detailed environmental data, please visit the site below.

> [Environmental data](#)

(1) Basis for environmental accounting calculations

- Reporting period: January 1, 2021 to December 31, 2021
- 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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