

# Environmental Reporting

Corporate Statements

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Compliance Handbook

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【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.  
・ 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 Accounting

- Total investments for the current period: ¥50.0 billion
- Total research and development expenses for the current period: ¥14.4 billion

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

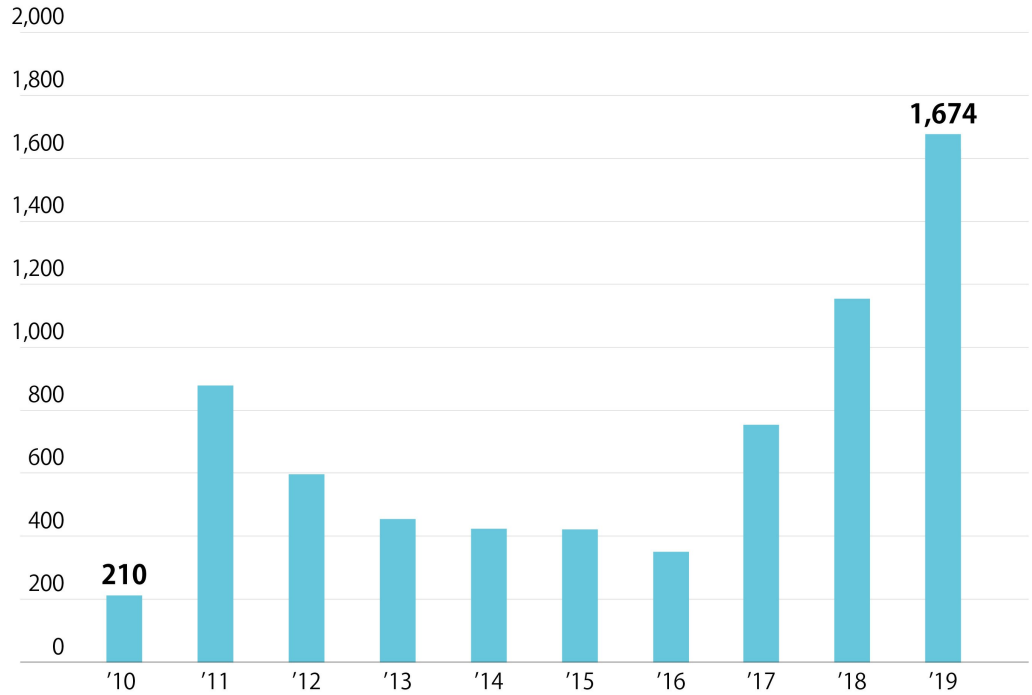
Category		Investments	Cost	Principal activities
Costs within the sites	Pollution prevention costs	923	1,475	Operating cost of environmental facilities, measures to prevent emissions of toxic chemical substances
	Global environmental preservation costs	86	77	Cost of energy conservation activities
	Resource recycling costs	415	808	Recycling costs and waste processing costs
	<b>Total</b>	<b>1,424</b>	<b>2,360</b>	
Upstream and downstream costs		-	105	Recycling and reuse of packaging materials, improvement of container packaging
Administrative costs		97	91	ISO 14001, environmental measurements, environmental education
Research and development costs		154	422	Development of environmentally friendly products
Social activity costs		-	0	Afforestation, beautification, provision of environmental information to host community residents

Category	Investments	Cost	Principal activities
Environmental damage costs	-	-	
<b>Total</b>	<b>1,674</b>	<b>2,978</b>	

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

## Trends in Capital Expenditures for Environmental Facilities

(Millions of yen)



## Environmental Preservation Effects (Kuraray)

Category		Unit	FY2017	FY2018 <sup>(1)</sup>	FY2019 <sup>(2)</sup>	Change [(2)-(1)]
Pollution prevention activities	SOx emissions	Tons	407	350	550	200
	NOx emissions	Tons	1,855	1,779	1,770	(9)
	Soot and dust emissions	Tons	33	31	31	0
	PRTR substance emissions	Tons	976	902	855	(47)
	COD load	Tons	514	554	512	(42)
Global environment preservation activities	GHG emissions	1,000 tons-CO <sub>2</sub>	1,319	1,310	1,301	(9)
	Energy consumption	1,000 kL (crude oil equivalent)	434	433	431	(2)
	Unutilized externally processed industrial waste	Tons	849	875	1,735	860

Category		Unit	FY2017	FY2018 <sup>(1)</sup>	FY2019 <sup>(2)</sup>	Change [(2)-(1)]
Resource recycling activities	Rate of effective waste utilization	%	96.7	97.8	97.1	(1)
	Water resource usage*	million m <sup>3</sup>	71	72	71	(1)
	Total discharge of wastewater*	million m <sup>3</sup>	64	65	61	(4)

\* Excluding seawater

For detailed environmental data, please visit the site below.

[> Environmental data](#)

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

- Reporting period: January 1, 2019 to December 31, 2019
- Scope covered: Kuraray sites

#### (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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