Environmental Accounting

To efficiently and effectively promote its environmental activities and with the aim of enhancing corporate value, Kao quantifies the costs and results of environmental conservation activities in numerical terms.

2023 environmental accounting report

- 1 The aggregation methods we use to comply with the Japanese Ministry of the Environment's Environmental Accounting Guidelines 2005. We also reference the Environmental Accounting Guidelines for Chemical Companies (November 2003) issued by the Japan Chemical Industry Association.
- 2 Boundary: the Kao Group in Japan*1 and major subsidiaries outside Japan*2
- 3 Concerns the period from January 1, 2023 to December 31, 2023

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- *1 Kao Corporation, Kao-Quaker Company, Limited., Kao Group Customer Marketing Co., Ltd., Kao Sanitary Products Ehime Co., Ltd., Kanebo Cosmetics Inc., e'quipe, Ltd., Kao Professional Services Co., Ltd., Kao Salon Japan CO., LTD., Molton Brown Japan Ltd., Kao Paper Manufacturing Fuji, Kao Business Associe Co., Ltd., Kao Logistics Co., Ltd., Shohi Seikatsu Kenkyusho Inc., Kao Peony Co., Ltd., and Kao Cosmetic Products Odawara Co., Ltd.
- *2 Kao (Taiwan) Corporation, Kao Vietnam Co., Ltd., Pilipinas Kao, Incorporated, Kao Industrial (Thailand) Co., Ltd., Kao Soap (Malaysia) Sdn. Bhd., Fatty Chemical (Malaysia) Sdn. Bhd., Kao Plasticizer (Malaysia) Sdn. Bhd., Kao Oleochemical (Malaysia) Sdn. Bhd., PT. Kao Indonesia Chemicals, Kao Specialties Americas LLC, Quimi-Kao, S.A. de C.V., Kao Corporation S.A., Kao (Hefei) Co., Ltd., Kao Chemicals GmbH, PT Kao Indonesia, Kao Manufacturing Germany GmbH, Kao (Shanghai) Chemical Industries Co., Ltd., Kao USA Inc., Molton Brown Limited, Kao Corporation Shanghai, Huludao Jinxing Casting Materials Co., Ltd.

Environmental conservation costs (categories corresponding to business activities)

(Unit: millions of yen)

	Japan		Asia, the Americas, Europe			
Categories		Key activities	Investment	Cost*3	Investment	Cost*3
(1) Business area costs			668	4,529	1,392	7,487
Breakdown	(i) Pollution prevention	Air pollution prevention, water contamination prevention	114	1,884	730	1,771
	(ii) Global environmental conservation	Energy conservation	345	580	574	1,296
	(iii) Resource circulation	Resource conservation, waste processing and disposal	209	2,065	88	4,420
(2) Upstream/downstream costs		Plant and equipment for eco-conscious products, packaging recycling	1,698	2,679	0	1,924
(3) Administration costs		Acquisition and maintenance of EMS certification, environmental publicity, tree-planting within worksites	0	1,279	7	302
(4) R&D costs		Eco-conscious R&D	1,780	7,724	15	719
(5) Social activity costs		Nature and environmental conservation and tree-planting activities outside worksites, donations	2	92	0	42
(6) Environmental remediation costs			0	0	0	61
Total			4,148	16,301	1,415	10,536

Environmental conservation costs (categories corresponding to areas of environmental conservation measures) (Unit: millions of yen)

		Japan		Asia, the Americas, Europe	
Categories	Key activities	Investment	Cost*3	Investment	Cost*3
(i) Cost related to global warming measures	Energy conservation	345	580	569	568
(ii) Cost related to ozone layer protection measures	Switch to CFC alternatives	0	0	4	692
(iii) Cost related to air quality conservation measures	Air pollution prevention, dust pollution prevention, malodor prevention	37	449	293	521
(iv) Cost related to noise and vibration measures	Noise prevention	0	6	44	51
(v) Cost related to environmental conservation measures for aquatic, ground, and geologic environments	Water contamination prevention	77	1,429	391	1,186
(vi) Cost related to waste and recycling measures	Resource conservation, industrial waste reductions, recycling	1,907	4,743	88	4,566
(vii) Cost related to measures to reduce chemical risks and emissions	R&D on products and production	1,780	7,724	15	716
(viii) Cost related to nature and environmental conservation	Nature and environmental conservation and tree-planting activities outside worksites, donations	2	91	4	135
(ix) Other costs	Acquisition and maintenance of EMS certification, environmental publicity, tree-planting within worksites	0	1,279	7	2,099
Total		4,148	16,301	1,415	10,536

Economic effect associated with environmental conservation activities*4

			(Unit: millions of yen)	
		Japan	Asia, the Americas, Europe	
Details of benefits		Amount	Amount	
Revenue	Sales value of valuable resources and fixed assets	276	347	
Cost reductions*5	Reduction in costs through energy conservation	138	434	
	Reduction in costs through resource conservation	1,866	2,691	
	Reduction in operation costs (maintenance costs, etc. of eco-conscious equipment)	46	2,664	
Total		2,326	6,136	

- Cost includes depreciation costs.
- *4 For economic effects, only amounts from selling valuable resources and fixed assets and the amount of cost reductions are recorded. Economic effects based on assumption such as risk mitigation, so-called "deemed effects" are not recorded.
- *5 The amounts of cost reductions contains only the relevant fiscal year of the annual cost reduction for items generated during that year. Cost reduction amounts generated over multiple years are not included





