Independent assurance report

GRI Standards

Indexes for survey

Environmental accounting

Kao's approach

Kao's approach

To efficiently and effectively promote its environmental activities, Kao quantifies the costs and results of those activities in numerical terms.

2018 environmental accounting report

- 1 The aggregation methods we use 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 domestic Kao Group*1 and major overseas subsidiaries*2.
- 3 Concerns the period from January 1, 2018 to December 31, 2018.



Please see below for environmental conservation results (numerical results).

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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., Kanebo Cosmetics Sales Inc., e'quipe, Ltd., Kao Professional Services Co., Ltd., Goldwell Japan Co., Ltd., Molton Brown Japan Ltd., Kao Paper Manufacturing Fuji, Kao Business Associe Co., Ltd., Kao Logistics Co., Ltd., Kao System Logistics Co., Ltd., Kao Field Marketing Co., Ltd., Kao Creative House Corporation, Shohi Seikatsu Kenkyusho Inc., Kao Peony Co., Ltd., Healthcare Committee Inc., and Kao Cosmetic Products Odawara Co.,
- *2 Kao Chemical Corporation Shanghai, 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 ven)

			Inside Japan		Asia, Americas and Europe	
Categories		Key activities	Investment	Cost*1	Investment	Cost*1
(1) Business area costs			2,169	3,632	1,254	3,625
	1 Pollution prevention	Air pollution prevention, water contamination prevention	628	1,464	879	1,491
Breakdown	2Global environmental conservation	Energy conservation	506	365	248	753
	3 Resource circulation	Resource conservation, waste processing and disposal	1,035	1,803	127	1,381
(2) Upstream/downstream costs		Plant and equipment for eco-conscious products, packaging recycling	337	2,619	0	83
(3) Administration costs		Acquisition and maintenance of EMS certification, environmental publicity, tree planting within worksites	5	2,057	27	207
(4) R&D co	osts	Eco-conscious R&D	2,402 4,399		6	105
(5) Social a	activity costs Nature and environmental conservation and tree-planting activities outside worksites, donations 0 148 13		13	13		
(6) Environmental remediation costs			0	0	0	11
Total		4,913	12,855	1,300	4,044	

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

		Inside Japan		Asia, Americas and Europe	
Categories	Key activities	Investment	Cost*1	Investment	Cost*1
①Cost related to global warming measures	Energy conservation	506	365	214	387
②Cost related to ozone layer protection measures	Switch to CFC alternatives	0	0	34	346
③Cost related to air quality conservation measures	Air pollution prevention, dust pollution prevention, malodor prevention	15	439	473	467
4 Cost related to noise and vibration measures	Noise prevention	0	2	16	52
(5) Cost related to environmental conservation measures for aquatic, ground, and geologic environments	Water contamination prevention	613	1,023	390	960
6 Cost related to waste and recycling measures	Resource conservation, industrial waste volume reductions, recycling	1,373	4,422	127	1,461
Cost related to measures to reduce chemical risks and emissions	R&D on products and production	2,402	4,399	6	105
®Cost related to nature and environmental conservation	Nature and environmental conservation and tree-planting activities outside worksites, donations	0	123	13	83
9Other costs	Acquisition and maintenance of EMS certification, environmental publicity, tree-planting activities within worksites	4	2,082	27	183
Total		4,913	12,855	1,300	4,044

Economic effect associated with environmental conservation activities*2

(Unit: millions of yen)

		Inside Japan	Asia, Americas and Europe	
Details of benefits		Amount	Amount	
Revenue	Sales value of valuable resources and fixed assets	455	214	
Cost reductions*3	Reduction in costs through energy conservation	213	148	
	Reduction in costs through resource conservation	1,460	866	
	Reduction in operation costs (maintenance costs, etc. of eco-conscious equipment)	266	443	
Total		2,394	1,671	

- *1 Cost includes depreciation costs.
- *2 For economic effect, 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.
- *3 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.

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