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Environmental Reporting

Corporate Statements	Environmental Management	Global Warming Prevention					
The Kuraray Group Code of Conduct	Poducing of Environmental Load	Environmental Accounting					
Compliance Handbook	Reducing of Environmental Load	Environmental Accounting					
TOP STATEMENT	Environmental Data						
Sustainability Management							
Safety Report	[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]						
Environmental Report	After fiscal 2015 : Actuals for 12 months from January to December						
Environmental Management	Environmental Management						
Global Warming Prevention	We believe that the Kuraray Group's mission a	s a material and intermediate material					
Reducing of Environmental Load	manufacturer is as follows:						
Environmental Accounting	 Contributing to society by providing the materials and intermediate materials needed to create a low carbon society and an eco-friendly society; and Producing these items with as low an environmental impact as possible. 						
Environmental Data	Based on this mindset, we consistently work through global manufacturing to implement environmental improvement activities, such as promoting measures against global warming,						
Social Report	reducing chemical substance emissions, and er	nsuring the beneficial use of resources.					
Corporate Governance	Environmental Targets and Results	Environmental Targets and Results					
	***	Largely achieved, \bigstar : Achieved, \bigstar : Need to be improved					
GRI Standards Content Index	FY2019	Medium-term					
Kuraray Report	Scope						

	Scope						
Global warming prevention	Kuraray Group in Japan	Reduc e GHG emissi ons*1 by 13, 000 to ns-CO 2e or more compa red wi th FY2 018	Reduced GH G emissions by 21,000 ton s-CO2e or mo re compared with FY2018	☆☆☆	Reduce GHG em issions by 13,0 00 tons- CO2e or more co mpared with FY 2018	Improve GHG e mission intensit y index by 1 per centage point o r more year on year	Reduce GHG emissions by 13,000 tons-C O2e or more c ompared with FY2020
		Impro ve GH G emi ssion i ntensi ty ind ex by 1 perc entag e poin t or m ore co mpare d with FY201 8	Decreased G HG emission intensity inde x by 1.7 perc entage points year on year	\$	Improve GHG em ission in tensity i ndex by 1 perce ntage p oint or more co mpared with FY 2019		Improve GHG emission inte nsity index by 1 percentage point or more year on year
	Kuraray Group outside Japan	Impro ve ene rgy* ² i ntensi ty ind ex by 1 perc entag e poin t or m ore co mpare d with FY201 8	Decreased en ergy intensity index by 5.0 percentage p oint or more compared wit h FY2018	Å	Improve energy i ntensity index by 1 perce ntage p oint or more co mpared with FY 2019	Improve energy intensity index by 1 percentag e point or more year on year	Improve energ y intensity ind ex by 1 perce ntage point or more year on year
Management of chemical substance emissions	Kuraray Group in Japan	Reduc e JCIA -desig nated PRTR substa nce e missio ns to l ess th an the FY201 6 level (957 t ons)	JCIA-designa ted PRTR sub stance emissi ons:967 tons	ਨਿੱਨ	Reduce JCIA-de signate d PRTR substan ce emis sions to less tha n the F Y2016 I evel (95 7 tons)	Reduce JCIA-de signated PRTR substance emis sions to less th an the FY2016 I evel (957 tons)	Reduce JCIA- designated P RTR substanc e emissions t o less than th e FY2016 leve I (957 tons)
	Kuraray Group outside Japan	_	_	_	Complying with the chemical emissions regul ons of each country and region where oversea production bases are located, and conducting uantitative management.		

		Scope	FY2019			FY2020	Medium-term	
				Actual performances				
	Reduction of w aste	Kuraray Group in Japan	Reduc e wast e by t he eq uivale nt of 1 % rela tive to FY201 6 (900 tons), or mor e	Reduced was te by 2,030 to ns	****	Reduce waste b y the eq uivalent of 1% re lative to FY2016 (900 ton s), or m ore	Reduce waste b y the equivalen t of 1% relative to FY2016 (900 tons), or more	Reduce waste by the equival ent of 1% rela tive to FY201 6 (900 tons), or more
			Reduc e final landfil l volu me to less th an the FY201 6 level (251 t ons)	Final landfill volume: 365 tons	Å	Reduce final lan dfill vol ume to l ess tha n the F Y2016 l evel (25 1 tons)	Reduce final la ndfill volume to less than the F Y2016 level (25 1 tons)	Reduce final I andfill volume to less than th e FY2016 leve I (251 tons)
		Kuraray Group outside Japan	_	_	_	Complying with the legal requirements of each country and region where overseas production b ases are located, we will continue reducing was te generation and conducting quantitative mana gement.		
	Effective utilization of water resources	Kuraray Group in Japan	_	_	_	Considering the geographical conditions of Kur aray plants in Japan, we will not set a numerica I target for the time being. However, we will co ntinue to watch the water usage and save it as much as possible.		
		Kuraray Group outside Japan	Impro ve wat er inte ndex (except seawa ter) by 1% or more compa red wi th FY2 018	Decreased w ater intensity index (except seawater) by 5.4% or more compared wit h FY2018	\$	Improve water in tensity i ndex (e xcept se awater) by 1% o r more c ompare d with F Y2019	Improve water i ntensity index (except seawate r) by 1% or mor e year on year	Improve water intensity inde x (except sea water) by 1% or more year on year

*1) FY2021 targets were set as single-year targets.

*2) Greenhouse Gas

*3) Almost all electric power and steam is purchased from external sources at the Kuraray Group outside Japan. Because the source of supply has a large effect on GHG emissions (changes in emission factor), energy consumption is evaluated without incorporating the impact of the supply source in order to properly evaluate the activities of the Kuraray Group outside Japan.

Environmental Management System

Environmental Conservation Promotion System

To undertake company-wide environmental conservation activities, the Kuraray Group has established the Environmental Conservation Working Team (WT) and Global Warming WT within the CSR Committee, promoting measures against global warming, managing chemical substance emissions and ensuring the beneficial use of wastes and water resource.

Kuraray Group Environmental Basic Policy

The Kuraray Group has established the Kuraray Group Environmental Basic Policy, and is engaged in activities for environmental preservation. Furthermore, continuous improvements in its environmental activities are made by implementing a Plan-Do-Check-Act (PDCA) cycle and improving it in the plants, group companies and head office in accordance with Kuraray Environmental Activity Management Rules. The Kuraray Group's plants and affiliates have acquired ISO 14001 (Environmental Management Systems) certificates and are continuing to operate.

Kuraray Group Environmental Policy

The Kuraray Group has established the following policy to contribute to the sustainable development of society and fulfill its responsibilities to future generations through business activities in harmony with environment.

Basic Policy

- (1) We give maximum consideration to the environment in conducting our business operations.
- (2) We conduct perpetual environmental improvement activities.
- (3) We develop technologies and products which contribute to improvement of the environment.

Guiding Principles

(1) Reduce greenhouse gas emissions

Actively promote the improvement of energy efficiency, fuel conversion, and the utilization of sustainable energy such as biomass fuel. Continuously engage in the reduction of greenhouse gas emissions.

- (2) Reduce emission of hazardous chemicals into the environment Promote replacement with less hazardous chemicals and continuously reduce emissions, and strive to minimize the emission of hazardous chemicals into the air, water, and soil.
- (3) Reduce the volume of waste

Promote reduction, reuse, and recycling of waste, and strive to minimize the volume of waste resulting from business operations.

(4) Promote efficient utilization of water resources

Recognizing that water is a limited resource, strive to minimize the amount of water necessary for business operations by promoting the optimization of operation conditions and recycling.

(5) Develop and provide environmental improvement technologies and products with low environmental load

Strive to develop and provide technologies that reduce the environmental load throughout the entire lifecycle, and contribute to the environment.

(6) Reduce environmental load in procurement (raw materials, supplies, and equipment) and logistics

Strive to procure environment-friendly materials, supplies, and equipment, while at the same time reducing the environmental load in the logistics process (transportation and storage).

(7) Consideration to biodiversity

Give maximum consideration to biodiversity, and strive to preserve biodiversity and engage in the sustainable use of biological resources.

- (8) Proactively disclose environmental information and promote dialogue with society Proactively disclose corporate information regarding the environment (including risk information), and promote dialogue with the local community and society as a whole in order to build mutual understanding and trust.
- (9) Increase employee awareness of the environment and improve the level of environmental management

Increase employee awareness and understanding of the environment through training and internal communications. Improve the level of environmental management by deploying environment activity management systems and environmental accounting.

Environmental Impact Management

In fiscal 2019, no leak accidents of chemical substances and wastes that cause severe damage to the environment were reported. The statutory effluent standard of drainage to public waters is strictly observed by the Kuraray Group in Japan, and there was no incident causing significant impact on public waters including rivers, underground waters and marine waters. The transportation of hazardous wastes, which includes transportation of waste containing polychlorinated biphenyls (PCBs) to outside disposal companies, is handled appropriately in accordance with the Act on Special Measures concerning Promotion of Proper Treatment of PCB Wastes (Act on Special Measures Against PCB Waste).

Carrying Out the Medium-term Environmental Plan

The Kuraray Group has been engaged in a three-year Medium-term Environmental Plan that started in 2018, for which a Production Intensity Index* is used to directly reflect the results of environmental improvement efforts at production sites.

As the Medium-term Environmental Plan was scheduled to complete in 2020, we are originally supposed to formulate the new plan, and the new plan should have been started from 2021. However, as the outlook of the global economy and the business environment became uncertain due to the spread of COVID-19, we changed the initial year of the next Medium-term Environmental Plan to fiscal 2022, in accordance with the change of the initial year of the Medium-Term Management Plan to fiscal 2022.

In fiscal 2021, we set environmental targets for a single fiscal year, which take over the policy of the former Medium-term Environmental Plan until fiscal 2020. Specific numerical targets are presented in "Environmental target and performance."

With regard to global warming prevention, the Paris Agreement, an international framework on climate change, will enter the implementation phase in 2020. In Japan, a long-term national strategy has been formulated based on the Paris Agreement with a view to realizing a "carbon-free society" with milestones in 2030 and 2050.

Progress has also been seen in discussions and activities within the production industry on marine plastic pollution and other global environmental problems. As a materials manufacturer, we have joined the Japan Initiative for Marine Environment (JaIME), and participates in discussions and exchanges of information on its activities. In light of these changes in the external environment, the Kuraray Group will steadily strive to improve the environment by thoroughly implementing the PDCA cycle for environmental improvement activities. The targets are shown in the table "Environmental Targets and Results."

* Production Intensity Index = Converted

Production Volume/Environmental Load

Converted production volume: Production volume converted from the production volume of each product as the production volume of the reference product using a conversion factor determined based on the environmental load intensity of each product in the reference year.

Environmental Load: GHG Emissions Volume (Japan), Energy Consumption Volume (outside Japan), etc. Converted production volume per environmental load unit. Figures are an index based on fiscal 2016 as 100. In order to reflect the results of GHG emissions reduction efforts, Kuraray newly introduced an "Intensity Index" of converted production volume to evaluate "how efficiently the company conducted production activities." While reviewing the conversion coefficient in accordance with a change in the business environment, it helps reflect on-site environment improvement activities more clearly. Starting from fiscal 2018, Kuraray aims to improve this "Intensity Index" as an environmental objective.

Material Flow in Business Activities

The Kuraray Group uses energy, chemical substances and water resources required for its business activities. We make quantitative surveys on the used raw materials, resources, products supplied outside the Group and emitted substances every year to help reduce environmental load associated with our business activities.





Collaboration with industry associations

Chemical Industry Association (member), and Japan Petrochemical Industry Association (member) to enhance our environmental management efforts, and engages in a broad range of activities, such as reduction of GHG emissions, energy conservation, reduction of chemical substance emissions, and prevention of marine plastic pollution, in cooperation with the industry in order to address global environmental issues.

Environmental management system certifications (as of the end of December 2019)

(1) ISO14001	
Kuraray Niigata Plant	EVAL Europe NV
Kuraray Kashima Plant	Kuraray Europe GmbH
Kuraray Okayama Plant	Kuraray Europe GmbH Division
Kuraray Kurashiki Plant (including Kurashiki Research	Troisdorf
Center)	000 TROSIFOL
Kuraray Tsukuba Research Center	Kuraray America, Inc.
Kuraray Saijio Plant	Kuraray Asia Pacific Pte.Ltd.
Kuraray Tsurumi Plant	Kuraray Korea Ltd.
Kuraray Plastic Co., Ltd. (Ibuki Plant)	Calgon Carbon Suzhou
Kuraray Fastening Co., Ltd. (Maruoka Plant)	Chemviron S.A. Feluy
	Chemviron Carbon
	Chemviron Italia SRL

* This includes the following group companies which reside within business sites and plants: Kuraray Kuraflex Co., Ltd. (Okayama Plant), Kuraray Okayama Spinning Co., Ltd., Kuraray Saijo Co., Ltd., Kuraray Tamashima Co., Ltd., Kuraray Saiji Co., Ltd., Kuraray Techno Co., Ltd., Kuraray Noritake Dental Inc.

Chemviron France SAS

(2) RC14001 Kuraray America, Inc.

MonoSol, LLC

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GRI Standards Content

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