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Visualizing and Quantifying Social and Environmental Value

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Seeking to expand the product lineup from the starting point of contributing to the natural and living environments

The Kuraray Group has identified material issues relevant to the Company, following the steps shown at right. Among these issues, we are taking products and technologies that contribute to the natural and living environments as our starting point as we aim to create a sustainable product portfolio. To this end, we constructed the Kuraray PSA system based on the PSA guidelines of WBCSD*, which offer a consistent methodology for evaluating products with a high degree of objectivity and transparency.

Looking at products, applications, and the regions where they are used, we evaluate products using a five-point scale based on criteria such as fundamental requirements, social and regulatory trends, and comparison of contributions to the natural and living environments against benchmark products. Products receiving the two top rankings are designated as products that contribute to the natural and living environments. We will build a more sophisticated business portfolio by expanding sales of such products, from 46% of all sales in 2020 to 55% in 2024 and 60% in 2026.

* World Business Council for Sustainable Development.

Assessment of contribution using Kuraray PSA system

Fundamental requirements			<assessment ranking=""></assessment>
	Chemical and hazardous substance management		Assessment based on contribution by Kuraray pro
	Application to Kuraray Action Guidelines		
	Economic value		5 Top performance
	Reputational risks		
★ Stakeholder requests			4 Positive performance
	 Regulatory trends by region 		
	• Sustainability policies across the value chain		
	 Eco labeling, certification, etc. 		
\downarrow			$\rightarrow 2$ Negative performance
Performance assessment			
	 Relative assessment against benchmark 		
			•

Procedure to Identify Materiality



Procedure to Identify Materiality

Materiality of the Kuraray Group

Improving the nat	tural environment	Improving the liv	ving environment		
 Climate change measures— GHG reduction and energy conservation Solution of marine plastics and plastic waste Water and air purification 	 Biodiversity conservation Development of next- generation applications, products, and technologies Circular economy 	Contribution to the safe and reliable supply of food and water Improvement of quality of life	 Promotion of health and wellness for all Development of next-generation applications, products, and technologies 		

Creating Value through Business

Creating Value to Strengthen the Foundation of Kuraray

Effective use of resources and reduction of environmental impact	Improving supply chain management	Building a "company that people can take pride in"
 Reduction of GHG emissions Reduction of chemical emissions Reduction of waste volume and intensity Reduction of marine plastics and plastic waste 	 Sustainability procurement Improvement of product stewardship 	 Promotion of safety activities Improvement of safety and disaster prevention preparedness Enhancement of technology and working smarter Promotion of workplace diversity and inclusion



Roadmap towards net-zero carbon emissions in 2050

Maximizing Environmental Value

The Kuraray Group has formulated a roadmap for reducing Scope 1 and Scope 2 greenhouse gas (GHG) emissions, aiming to achieve net-zero carbon emissions in 2050. During "PASSION 2026," the roadmap calls for investments in energy saving, converting purchased electricity to renewable energy (including the purchase of renewable energy certificates), and other reduction measures to maintain GHG emissions below the 2019 benchmark, even while expanding our businesses. The roadmap includes a plan to invest ¥80 billion in GHG emissions reductions by 2030, targeting a further 30% reduction compared to 2019. This mainly entails establishing CCUS* technologies and shifting fuels used in in-house power generation. In 2050, we aim to achieve net-zero carbon emissions by identifying and harnessing emerging technologies that prove effective, such as green hydrogen and green ammonia technologies.

Viewing carbon neutrality as a business opportunity as well, the Kuraray Group will maximize environmental value by reducing GHG emissions while simultaneously expanding the lineup of products that contribute to the natural and living environments.

* Carbon dioxide Capture, Utilization, and Storage: An initiative to utilize or store CO₂ separated from exhaust gas from industrial facilities.



Adoption of Internal Carbon Pricing (ICP) System

In 2021, the Kuraray Group adopted an internal carbon pricing (ICP) system to govern capital spending. In line with the start of "PASSION 2026," we revised our internal carbon pricing from 2022, to ¥10,000 per ton of CO₂e. We will use this system in multiple ways as we aim to reach the goal of net-zero carbon emissions, including as an incentive to promote capital spending that leads to energy conservation, as a means of identifying profit opportunities and risk, and as a social and environmental value indicator for evaluating businesses and making investment decisions.

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Operation of ICP system

Internal carbon pricing	¥10,000/ ton-CO2e (calculated using internal exchange rates overseas) Effective from January 1, 2022			
Already i	mplemented	Under consideration		
 Capital spending GHG emissions Calculating virtu internal carbon p criteria in making 	to increase/decrease al cost/profit with ricing and using as a g investment decisions	• Converting GHG emissions of each business and product to cost at an internal carbon price and evaluating their resilience to future carbon taxes, etc.		