

Mid-to Long-Term Environmental Targets and Results

Target Items	2025 Targets	2030 Targets	Results and Evaluation				2023 Summary and Next Steps
			2021 Achievement	2022 Achievement	2023 Evaluation	2023 Evaluation	
Plastics for containers and packaging: Increase ratio of plant-based/recycled plastics	25%	50%	5%	6%	14%	○	In addition to the use of recycled plastic for packaging of toothbrushes and interdental brushes, we have increased this ratio by switching to plant-based plastic for mouthwash bottles from 2023. This packaging uses the largest amount of plastic out of all Sunstar's packaging materials. We will expand to other product lines and reduce the use of petroleum-based virgin plastic.
Post-consumer packages and containers: Increase ratio of recyclable or reusable material	55%	100%	73%	68%	75%	◎	We have achieved excellent results in relation to metal cans for adhesives and sealants. On the other hand, many containers used in the Consumer Business are made of composite materials to ensure quality and safety. Going forward, we will focus on developing containers that are easy to separate out at the time of disposal, while ensuring quality.
Paper for containers and packaging: Increase ratio of FSC®-certified or other certified paper used*1*4*5	100%	100%	53%	70%	71%	△	We are progressively switching to FSC®-certified paper for packaging boxes and toothbrush/interdental brush package backings. The switchover in Japan is almost complete. We will continue to actively adopt FSC®-certified at a global level.
Palm oil for products: Increase ratio of RSPO-certified or other certified sustainable palm oil*6*7	50%	100%	9%	14%	25%	△	In 2021, we joined the RSPO and started purchasing RSPO-certified palm oil for use in glycerine, the raw material for mouthwash. We are working to increase the rate of adoption of RSPO-certified palm oil and expand the product areas covered.
Electricity used in own plants and offices: Increase ratio of renewable (CO ₂ -free) electricity*8	65%	100%	26%	27%	24%	×	The main oral care plant in Europe, located in Germany and the Global Group Headquarters in Switzerland are running on 100% renewable electricity. In addition to the main oral care manufacturing sites in Germany and Japan, new solar panels have been installed at our European Industrial Headquarters Business site in Germany and our adhesives and metal parts plant in Singapore in 2023. There has, however, been a group-wide setback due to an increase in the number of locations for which we calculate data and a worsening electricity procurement situation.
Water used in own plants: Reduction of water consumption per production volume (per kg)*9*10	-10%	-20%	1%	9%	-23%	◎	While there have been positive results in reducing water consumption thanks to an optimization in production processes, there has also been an increase in water consumption due to global warming. We will further analyse actual water usage and promote measures to reduce it.
CO ₂ emissions from own plants: Reduction of total emission (Scope 1+2)*8*9	-50%	-85%	-22%	-21%	-13%	×	CO ₂ emissions have increased since last year due to a lower renewable electricity procurement rates, an increase in the number of locations for which we are collecting data and a re-assessment of emissions intensity. We will continue to reduce CO ₂ emissions by increasing the ratio of renewable electricity, installing energy-saving equipment and operating plant facilities more efficiently.

* Scope of data: Data from group-owned global plants is integrated. Electricity, water and CO₂ are counted for the US Oral care plant, and electricity and CO₂ are counted for Tsubamex Consumer Business = Oral care products, cosmetics, health foods, and other consumer product-related businesses

Industrial Business = Adhesives and sealants for automobiles, construction and electronics, and metal parts for motorcycles and automobiles

* Evaluation criteria: ◎ = Exceeds targets, ○ = Mostly on target, △ = Missed target but making progress, × = Worse than before

*1 Includes European procurement for Consumer Business

*2 Product containers and primary packaging materials (excluding subcontracted products for Japanese consumer goods and industrial goods)

*3 Recyclable or reusable materials = Easily separable by material after product use

*4 Primary packaging materials (excluding materials procured by subcontractors for Japanese consumer goods and industrial goods)

*5 FSC® (Forest Stewardship Council®)

*6 RSPO (Roundtable on Sustainable Palm Oil) For more on our RSPO Membership Progress, see <https://rspo.org/members/12085>

*7 In-house procurement, mass-balance products *8 Including US oral care plants and our offices in Japan, Americas and Europe

*9 Base year: 2020 for the Consumer Business, 2019 for the Industrial Business (because 2020 was a year of significant production cuts for the client companies)

*10 Excludes groundwater from the Yamanashi Plant and the Industrial Business