

Mid-to Long-Term Environmental Targets and Results

Target Items	2025 Targets	2030 Targets	Results and Evaluation					2024 Summary and Next Steps
			2021 Achievement	2022 Achievement	2023 Achievement	2024 Achievement	2024 Evaluation	
Plastics for containers and packaging: Increase ratio of plant-based/recycled plastics used*1*2	25%	50%	5%	6%	14%	27%	◎	In addition to using recycled plastic for packaging materials used in toothbrushes and interdental brushes, since 2023, Sunstar has begun using plant-based plastic for mouthwash bottles, which use the most plastic among Sunstar's containers and packaging materials, and is expanding the range of products that use this material.
Post-consumer packages and containers: Increase ratio of recyclable or reusable material used*1*2*3	55%	100%	73%	68%	75%	74%	◎	We have achieved excellent results regarding metal cans for adhesives and sealants. On the other hand, many containers used for 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	100%	100%	53%	70%	71%	81%	○	We are gradually switching to forest-certified paper for the individual packaging of products, toothbrushes, and interdental brushes. The switch has been almost completed in Japan, and its use has expanded in our industrial business. In Europe, the use of recycled paper is being prioritized due to regulatory requirements, and we are considering revising our targets.
Palm oil for products: Increase ratio of RSPO-certified or other certified sustainable palm oil*6*7	50%	100%	9%	14%	25%	40%	○	In 2021, we joined the RSPO and started purchasing RSPO-certified palm oil for use in glycerine, the raw material for mouthwash, and 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%	24%	×	Almost 100% of facilities in Europe and over 50% of facilities in Japan use renewable energy. Solar panels are currently in operation at toothbrush and interdental brush factories and adhesive factories in Germany, mouthwash factories in Japan, and adhesive and metal parts factories in Singapore. The procurement of renewable energy is progressing in Japan and the Americas during 2024 and 2025, with the aim of achieving the 2025 target.
Water used in own plants: Reduction of water consumption per production volume (per kg)*9*10	-10%	-20%	1%	9%	-23%	-12%	◎	While there have been positive results in reducing water consumption by changing production processes, there has also been an increase in water consumption due to global warming. We will further analyze the actual usage of water 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%	-17%	△	At the Sunstar Group, more than 80% of the energy used at our business sites comes from electricity. We aim to achieve our CO ₂ emission reduction target for 2025 by increasing the ratio of renewable electricity, introducing energy-saving equipment, and operating factory equipment efficiently in the years 2024 to 2025.

* 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 CO., LTD.

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 excludes TOYOPOLYMER CO., LTD.

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

*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