

Environment

Eco-Friendly Products

The Otsuka Group is striving for environmental conservation through its products. It is working to develop eco-friendly products that reduce the environmental impact throughout the product life cycle, including measures for environment-friendly disposal.



display unit that can be reused to showcase different products, thereby employing resources more effectively and reducing waste.

Otsuka Pharmaceutical, Taiho Pharmaceutical, Otsuka Foods, Otsuka Packaging Industries

Lighter Bottles

The Otsuka Group has been making lighter containers, in order to conserve resources and reduce CO₂ emissions. When they were launched in 2007, Otsuka Pharmaceutical's 500 ml plastic bottles of POCARI SWEAT were the lightest in Japan. The weight of the bottles was reduced by introducing a method called "positive pressure aseptic filling" to the bottling lines, a first for Japan. Now the bottle washing and sterilizing process has been eliminated, as the company produces preforms in-house from raw PET plastic material. After reducing the weight of bottles for its carbonated vitamin beverage MATCH, in 2014 Otsuka Foods adopted eco-caps, which are around 40% lighter than conventional caps, for all sizes of Crystal Geysler mineral water except one gallon bottles. It thereby reduced the use of the raw material (polypropylene) by about 60%. Additionally, Taiho Pharmaceutical gradually reduced the weight of glass bottles for its Tiovita Drink while maintaining break-resistance, and Otsuka Pharmaceutical has reduced the weight of packaging film for SOYJOY by about 9%. Through innovation in shape design to make plastic products thinner, Otsuka Techno is also promoting efforts to reduce product weight.



Otsuka Pharmaceutical Factory: Products that result in less waste

Product Development that Improves Customer Convenience and Reduces Waste

Aiming to lessen medical waste, the Otsuka Group reduces waste right from the product design, development, and production stages in an effort to minimize its environmental impact. In the area of I.V. solutions, we developed the first-ever quad-chamber kit formulation bags. This eliminated the need for healthcare workers to mix several drugs and translated into less waste, including syringes and needles. We also developed an inhaler for respiratory disease treatment that is more compact and does not contain propellants that are harmful to the environment. This has reduced the amount of waste disposed, while also being more convenient. In the area of in-vitro diagnostic kits, we reduced medical waste by reducing kit contents.

Otsuka Pharmaceutical Factory, Otsuka Pharmaceutical

Otsuka Pharmaceutical, Taiho Pharmaceutical, Otsuka Techno, Otsuka Foods

Lighter and Smaller Packaging

The Otsuka Group is also working to reduce the weight of product packaging materials such as cardboard, in order to further reduce environmental impact. Taiho Pharmaceutical switched to a lightweight base paper for exterior cardboard packaging of Tiovita Drink while Otsuka Pharmaceutical worked to reduce the weight of exterior cardboard for MATCH bottles and cans, reducing base paper usage by around 14% in 2014. In addition, Otsuka Packaging Industries developed a pop



Packaging film reduced by about 9%



New 40% lighter eco-caps adopted



New lighter cardboard packaging for Tiovita Drink



Dong-A Otsuka: Campaign to encourage the removal of labels from plastic bottles for recycling

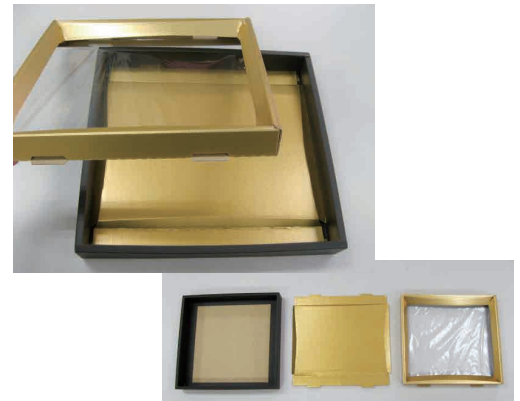
Carbon Footprint Reduction for POCARI SWEAT in Korea and a Campaign to Sort Waste for Recycling

When Dong-A Otsuka, which manufactures and sells beverages such as POCARI SWEAT in South Korea, reduced the weight of its 500 ml plastic bottles, it added the carbon footprint (CFP*) to labels, creating Korea's first certified low-carbon ion beverage. It is also conducting a campaign to add a perforated line to labels for easy removal and promote waste sorting.

Dong-A Otsuka

company is seeking to ensure that its own facilities and those of suppliers use RSPO-certified oil for Nutrition & Santé products.

Nutrition & Santé



Otsuka Packaging Industries: Developed a packaging technology that does not require cushioning material by securing contents with film.

Developing Environmental Packaging

Otsuka Packaging Industries, which manufactures packaging materials, reduces raw material use by making thinner packaging materials while maintaining packaging container performance and by changing packaging designs, such as the removal of internal partition pieces. Efforts to eliminate cushioning materials and develop self-sealing boxes, which makes the use of shrink-wrap film and tape unnecessary, have both contributed to having single material packaging that also simplifies material separation and disposal.

The company is also making efforts to manufacture environmentally friendly packaging material in terms of the quality of materials, such as the production of biodegradable plastic trays made from corn.

Otsuka Packaging Industries

VOICE



Delivery Health, Underpinned by Trust

Sylvie Martinel
Director of Sustainable Development and HSE
Nutrition & Santé SAS

N&S has a number of product lines that provide sustainable solutions to current and future food challenges. The 'health' that we offer customers is underpinned by a supply chain for natural, high-quality ingredients. We have already established a strong network with local growers, and in 2014 we were able to extend this to the entire supply chain, including for subsidiaries.

* Carbon footprint of products: Indicator, often displayed on the product label, of the CO₂ emitted throughout the life cycle of a product, from the extraction of natural resources to disposal and recycling.



Nutrition & Santé products

Ecodesign and Sustainable Ingredients

Nutrition & Santé SAS, based in southern France, implements its own eco-design charter to ensure that environmental impact is considered at all stages, from product development and ingredients procurement, to manufacturing, packaging material design, and product transport. As palm oil is used as an ingredient in biscuits and other products, the company participates in the Roundtable on Sustainable Palm Oil (RSPO). The