

# Reborn with Bioplastics



## New possibilities for spout pouches

### Aska Company Co., Ltd.

Our unique spout pouches are made of biomass plastic, a product that reduces the total amount of plastic used. Due to its innovative and sleek design, consumers will unlock new use cases for spout pouches. We will exhibit futuristic scenes at the Expo venue.



## Shifting from toothbrushes that are thrown away, to toothbrushes that are grown

### Ebisu Co., Ltd.

We will propose a way that we can coexist with plastic products in the future by changing from items that are thrown away to items that we grow.

## A pipe organ made from bioplastic

**ASAHI KAKO CO., LTD./Izumi Seisakusho Co., Ltd./Kakuichikasei Co., Ltd./SAKAE CO., LTD./SAHARA Chemical Co., Ltd./SANKYO PLUS CO., LTD./SHOEISEIKA INDUSTRY CO., Ltd./FUDO PLASTICS MANUFACTURING INC.**

We will exhibit and play music on a pipe organ that has been made from bioplastic. We will introduce the characteristics of this material and the technical challenges involved in its development, together with discussion of its consideration for the environment and coexistence with society.



## Environmentally friendly lunch boxes

### OSK corporation.

We will exhibit lunch boxes, cups, and other daily-use items that have been made from bioplastic composite materials that have improved resistance to degradation in hot and humid environments. This will provide an opportunity for visitors to learn that there are some plastics that are environmentally friendly.

## Modular Pen Stand



### Daimei Plastic Co., Ltd.

By adopting environmentally friendly materials, we aim to contribute to solving social issues. At the exhibition, we will showcase a pen stand made of bioplastic material using injection molding. The pen stand features a functional design that allows it to change shape depending on its use, along with an beautiful design.

## Converting used plastic into city gas

### KYOWA Co., Ltd

In the exhibition, collaborating with Osaka Gas Co., Ltd, we will present the 'Future Energy Recycling System,' which involves the production of methane from waste bioplastics, specifically 'polylactic acid molded products,' by microorganisms. The produced methane can be upcycled as a raw material for city gas.

## Environmentally friendly goods for everyday life



### Yoshikawakuni Plastics Industries, Ltd.

We will introduce our environmentally friendly products for everyday life that have received LCA evaluation. These are made using bioplastics and composite resins that are our original blend of general-purpose resins mixed with biomass materials such as cellulose nanofibers and cellulose microfibrils.

Reborn Challenge  
Implementation Body

West Japan Plastic Products  
Industrial Association

We will work with small and medium-sized plastic product manufacturers concentrated in Osaka on product development, with the goal of showcasing bioplastic products at the EXPO 2025 Osaka, Kansai, Japan. This effort is intended to pave the way for business development following the Expo.

Special Website



[Contact]

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## Learning about being environmentally friendly through play

### Ring Co.,Ltd.

At the venue, our original corporate character "Join" will introduce environmentally friendly plastic models that are made from bioplastic by using advanced injection molding technology. This will teach children the fun and importance of participating in the creation of a sustainable future.



## Containers that will support the medical care of the future

### Taisei Kako Co.,Ltd.

We support to provide the solution for future medication and challenges in pharmaceutical industries through the products such as biomass plastic pharmaceutical container, counting containers that incorporate the perspective of universal design, and devices that support the safe and reliable administration of medication.



## Protecting the natural environment with supercritical foaming technology

### PLASTEKO Corporation

At the venue, we will exhibit items such as our plant-derived and biodegradable floats made using our unique supercritical foaming technology, and our products made using bioplastic foaming materials that have high-level design possibilities. We aim to manufacture and use highly functional plastic products in an environmentally friendly manner.



## Organic combs that are gentle to hair, people and the planet

### LEADER CO.,LTD.

Bamboo charcoal is a material that is gentle on both the hair and the environment. It slides well due to its fine particles and it prevents static electricity, so it protects the cuticle and prevents split ends. At the venue, we will exhibit organic combs made from domestic bamboo charcoal with a biomass ratio of more than 99%.



## Functional bioplastic containing a wasabi component

### Yamaki Plastic Resins Co.,Ltd.

We are developing products in which a wasabi component (AITC) is microencapsulated and kneaded into bioplastic materials. This component is anti-mold, antibacterial, insect repellent and deodorant. At the exhibition, we will introduce products such as pellets and sheets that use this material and have a low environmental impact.



## A beer tumbler made from bamboo charcoal and sugar cane

### Yamayoshi Plastic Industry Co.,Ltd.

By blending porous bamboo charcoal powder into the tumbler material, a creamy foam is generated when the beer is poured. We will introduce "a tumbler that makes beer delicious" that is made of environmentally friendly materials, with a mixture of resin derived from sugar cane and bamboo charcoal.



## Changing the plastics around us to plant-based products

### Ueyama Plastics Manufacturing Co., Ltd.

We will exhibit number tags and card stands that are made by injection molding a bio-polyethylene resin reinforced with cellulose nanofiber and contain 90% or more plant-derived ingredients. We will also make new proposals of products for daily use that could be expected to reduce atmospheric CO<sub>2</sub> emissions in the future if bioplastics are used.



## Environmentally friendly pallets suitable for a recycling-oriented society

### Wakakusa Co.,Ltd.

Our Eco Eco Pallets are made using bioplastics and agricultural waste materials as raw materials. They are strong enough to be used repeatedly, and the raw materials can be recycled in the same way as regular plastics at the time of their disposal. At the exhibition, we will introduce this new form of pallet that contributes to a recycling-oriented society.

## Environmentally friendly cutlery that can be broken down by microorganisms

### TADA PLASTIC INDUSTRIES CO.,LTD.

We use the injection molding technology we have been perfecting for over 70 years to form various shapes with a biopolymer that is 100% plant-based and biodegradable in seawater. We will introduce an environmentally friendly set of plates and cutlery. The design of the plates is a cherry blossom motif to give them a Japanese impression.



## Gentle toys that are derived from plants

### Sanyu Raito Co., Ltd.

We will exhibit educational toys produced using 100% plant-derived bioplastic and bioplastic made from rice husks, which can often become waste material. We are particular about safety throughout, from the selection of the materials to the functional aspects of the toys. We aim to create a future society where the reuse of toys becomes the norm by building a sustainable system for recycling and reproducing products.



## Medical devices that offer safety and reassurance for both people and the environment

### YOSHIKAWA KASEI CO., LTD.

In the exhibition, we will introduce future manufacturing that combines 3D scanning, 3D printing, and environmentally friendly sustainable materials to provide one-of-a-kind medical devices that are tailored to each individual patient.

