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News Release

November 17, 2025

SEKISUI KASEI CO., LTD. (Head Office: 2-4-4 Nishi-tenma, Kita-ku, Osaka, Japan; President: Yasunobu Furubayashi) has announced the launch of its "RETONA FOAM BIO HS Grade," a polylactic acid (PLA) foam sheet designed for food container applications.

Providing Containers for Japan's First Industry-Government-Academia Collaboration Project Expanding the Use of "RETONA FOAM BIO HS Grade" for Food Containers

— Advancing the Implementation of Sustainable Materials and a Circular Economy —

"RETONA FOAM BIO" is an environmentally friendly material based on the concept of "Return to Nature," which focuses on resource circulation. Among its product lineup, the HS Grade is a PLA-based biodegradable foam sheet that can be utilized through composting or converted into biogas for energy. Through collaboration with customers and partners who support the collecting of used products for secondary use, such as biogas conversion, the Company is working to establish a resource circulation loop.
SEKISUI KASEI has provided materials for bento containers made from "RETONA FOAM BIO HS Grade" for Japan's first industry-government-academia collaboration involving a biogas production demonstration project, led by Osaka City, Osaka Metropolitan University, and Osaka Gas Co., Ltd.
This project, which started in November 2025, aims to contribute to the realization of a circular society by collecting used containers at the Osaka Metropolitan University Morinomiya Campus and processing them at Osaka Gas and the Nakahama Sewage Treatment Plant to convert them into biogas.
Additionally, we have established a manufacturing and supply system for the containers used in this product in collaboration with KOHSOKU CORPORATION and AKAMATSU KASEIKOUGYOU Co., Ltd.

Project Overview

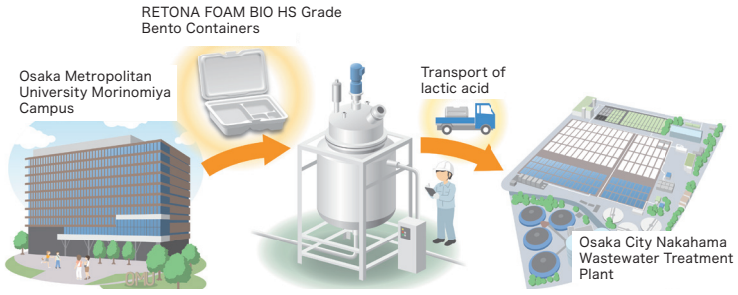
- Target Product :
  RETONA FOAM BIO HS Grade Bento Containers
- Sales Locations :
  Osaka Metropolitan University Morinomiya Campus Student Cafeteria
- Collection & Recycling :
  Used containers will be collected, decomposed into lactic acid, and converted to biogas
- Container Provision Period :
  From November 4 (Tuesday) to December 22 (Monday), 2025

Environmental Contribution (Quoted from Osaka Gas Press Release)

- Biogas Generation : 60m³
  (Equivalent to one day's usage of city gas for about 30 households)
- CO_2 Reduction Effect : Approximately 340kg
- Reduction of Petroleum-based Plastics : Approximately 60kg

RETONA FOAM BIO HS Grade
Bento Containers

Project Image (Provided by Osaka Gas)



Usage and Collection of RETONA FOAM BIO HS Grade Bento Containers

Pretreatment by Osaka Gas (PLA → Lactic Acid)

Lactic Acid Biogas Conversion & Biogas Utilization

The Company will continue to contribute to the realization of a sustainable society through the development and social implementation of environmentally friendly materials.

For more information about RETONA FOAM BIO (Biodegradable Foam) (Japanese only)
URL : http://sekisuikasei.com/jp/products/materials/retona_foam_bio/