September 12, 2025
MITSUBISHI CHEMICAL GROUP CORPORATION

Exhibition at the Circular Economy Research Lab in Expo 2025 Osaka, Kansai, Japan —Showcasing Initiatives to Connect the Plastics Value Loop—

Mitsubishi Chemical Group Corporation (Head Office: Chiyoda-ku, Tokyo; President: Manabu Chikumoto; hereinafter "the Company") announces its participation in the Circular Economy Research Lab, a hands-on event hosted by the Ministry of Economy, Trade and Industry (METI). The event will take place at the South Hall of the EXPO Exhibition Center WASSE as part of Expo 2025 Osaka, Kansai, Japan, for seven days only, from September 23 to 29, 2025. It will feature programs and exhibitions in collaboration with the Science Manga Survival series, offering participants the opportunity to learn about the circular economy in an enjoyable way.

■Exhibition Theme

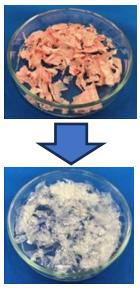
Under the Purpose of "We lead with innovative solutions to achieve KAITEKI, the well-being of people and the planet," the Company aims to become a Green Specialty Company that continues to provide optimal solutions to social issues and inspire customers through the power of materials.

As a company that operates globally across diverse fields such as mobility, semiconductors, communications, food, and medical care, it will showcase several initiatives in line with the theme, "Connecting the Plastics Value Loop," at this exhibition.

■Event Information

Event name	Circular Economy Research Lab—Learn About the Circular Economy in a Fun Way Through Collaboration with the "Science Manga Survival" Series
Dates	September 23 (Tue) to September 29 (Mon), 2025 10:00 a.m. to 8:00 p.m. (closes at 7:00 p.m. on September 29 only)
Organizer	Ministry of Economy, Trade and Industry (METI)
Partner	Asahi Shimbun Publications Inc. (publisher of the "Science Manga Survival" series)
Venue	South Hall, EXPO Exhibition Center WASSE, Expo 2025 Osaka, Kansai, Japan in Yumeshima, Osaka
Exhibit overview	Plastics are essential recyclable resources that support our lives with features such as light weight, hygienic advantages, ease of processing, and design versatility. The exhibition will showcase a variety of initiatives implemented by Mitsubishi Chemical Group in collaboration with its stakeholders to connect the plastics value loop, presented in an easy-to-understand way. ・Horizontal recycling of beverage bottle labels *Collaboration project with Fuji Seal International, Inc. ・Chemical recycling of acrylic resin ・Gas-barrier plastics that preserve food quality ・Water purifiers manufactured by Mitsubishi Chemical Cleansui Corporation (hereinafter "Cleansui") (Please refer to the next page for further details of the exhibition.)

■Exhibition Details

Horizontal recycling of beverage bottle labels 	【How are labels recycled?】 PET bottle labels can be horizontally recycled into the same type of labels. We promote the establishment of a label recycling system by leveraging the ink removal technology of our partner, Fuji Seal International, Inc., and our own technology to produce film from label-derived recycled materials, combined with both companies' expertise in collection and sorting. At this exhibition, we will showcase the entire recycling process, from collecting labels to recycling them, by displaying actual examples of collected labels, crushed samples, de-inked samples, recycled pellets, recycled film, and recycled labels.
Chemical recycling of acrylic resin 	【Why is microwave heating used for recycling?】 Chemical recycling is a technology that chemically breaks down used plastics and returns them to their original raw materials or monomers, allowing almost-new products to be manufactured repeatedly without loss of quality. Mitsubishi Chemical adopts microwave heating for chemical recycling of acrylic resin. This method heats materials from the inside out, thereby enabling recycling with improved energy efficiency and reduced CO_2 emissions compared to conventional external heating methods. At this exhibition, we will showcase the chemical recycling process by displaying actual material samples.
Gas-barrier plastics that preserve food quality 	【Gas-barrier effect is amazing!】 Gas-barrier plastics with air-blocking properties help extend the shelf life of food, reduce food waste, and cut down on plastic waste. By utilizing these gas-barrier plastics, Mitsubishi Chemical contributes to society across a wide range of fields, including food packaging, cosmetics, and automotive fuel tanks. At this exhibition, we will present a hands-on exhibition that allows visitors to experience gas-barrier performance through sight and smell. The Spot Eco Bottle, manufactured by KYORAKU Co., Ltd. using gas-barrier plastics, will also be showcased. We invite you to pick up and experience this innovative bottle that contributes to food waste reduction and recycling.
Cleansui water purifiers 	【Reducing PET bottles with water purifiers!】 Promoting a lifestyle of drinking delicious tap water through purifiers helps reduce reliance on disposable PET bottles. Cleansui water purifiers adopt a unique hollow-fiber membrane filter that removes contaminants, such as bacteria, fine particles and red rust that activated carbon cannot, while retaining minerals that enhance taste. This time, we will showcase various types of purifiers, including pitcher water purifiers, faucet-mounted purifiers that can easily be installed, and under-sink water cartridges.

The Company will continue to contribute to the realization of a circular economy in cooperation with various stakeholders.

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