

2022 January

World Scope



Mitsubishi Monitor introduces some of the latest news about Mitsubishi companies as they play an active role on the world stage.



Universal Can Corporation (Mitsubishi Materials, Mitsubishi Aluminum)

One-way Aluminum Cups Using Recycled Materials Go into Production

Universal Can Corporation, a subsidiary of **Mitsubishi Materials (MMC)** has started production of aluminum cups from recycled used beverage cans (UBC). Given the switch from plastic to aluminum cups under the plastic waste reduction movement in recent years, Universal Can has embarked on the development of, and has established the production technology for, aluminum cups. These aluminum cups have been developed as an eco-friendly container that reduces CO₂ emissions and energy consumption, as well as promoting resource conservation. UBCs pass through the recycling process of the Universal Can Corporation and **Mitsubishi Aluminum (MAC)** to be reborn as aluminum cups and aluminum drink containers.



Green aluminum cups to replace plastic cups

For more information about the Mitsubishi companies, see “mitsubishi.com”

■ <https://www.mitsubishi.com/en/>



The Mitsubishi Monitor is published by the Mitsubishi Public Affairs Committee

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Mitsubishi Gas Chemical

New MXDA Production Subsidiary Established in Europe

Mitsubishi Gas Chemical (MGC) will be constructing a new plant in an industrial estate in Rotterdam through its newly established and fully funded subsidiary MGC Specialty Chemicals Netherlands B.V. to increase its production capacity of Meta-xylenediamine (MXDA), for which Europe is the largest market. MXDA is mainly used in epoxy coatings for infrastructure applications due to its excellent anticorrosive and chemical-resistant properties, and a long-term growth in the market is expected. In addition to its current applications, the market for MXDA in the repair of wind turbine blades is growing and the new plant is scheduled to start operation in mid-2024. With the establishment of this new manufacturing subsidiary, the MGC Group will be able to strengthen its business continuity plan and ensure the stable supply of MXDA worldwide.



MXDA applications will further expand to the repair of wind turbine blades.

<https://www.mgc.co.jp/eng/corporate/news/2021/210929e.html>



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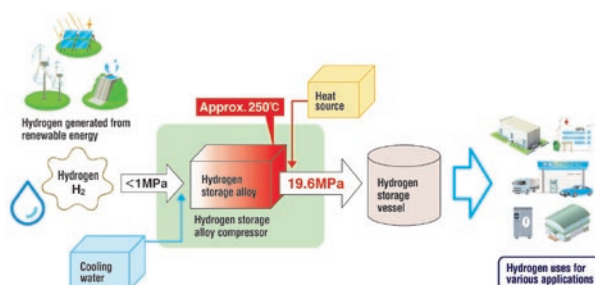
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Mitsubishi Kakoki Kaisha

Demonstration Success in Compressing Hydrogen Using Hydrogen Storage Alloys Without Motor Drive

Mitsubishi Kakoki Kaisha (MKK), working with the Kobe Material Testing Laboratory, Nasu Denki-Tekko, Daitech, Hiroshima University and the Shikoku Industry & Technology Promotion Center, has developed and successfully demonstrated a hydrogen storage alloy compressor that can fill gas cylinders with hydrogen to a pressure of 19.6 MpaG, the pressure at which the hydrogen is normally transported in Japan, without motor drive. Toward the realization of a hydrogen society, MKK is engaged in the development of decarbonized hydrogen delivery systems. The company is seeking to commercialize hydrogen storage alloy compressors as a new addition to its hydrogen-related product lineup.



The working of the hydrogen storage alloy compressor



The compressor used in the demonstration testing

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Mitsubishi Materials

Limited Period Release of *Dr. Stone* TV Anime on Collaboration Website

Mitsubishi Materials (MMC), in a project directed at children to celebrate the group's 150th anniversary, ran a website in collaboration with the TV anime series *Dr. Stone*; it was available on the MMC website until the end of December 2021. The *Dr. Stone* anime was based on a Japanese science adventure manga written by Riichiro Inagaki and illustrated by Boichi. The manga is serialized in Shueisha's Weekly Shonen Jump magazine. It was decided to produce a sequel to the series adapted for television and published on the Web in 2019 and 2021. The website allows children to enjoy learning, through quizzes and mini-games, about the company's recycling technology, for E-Scrap and aluminum cans among others, as well as about the copper smelting process. In addition, 50,000 copies of a special notebook for learning along with *Dr. Stone* characters were distributed to fifth and sixth graders throughout Japan. The MMC group will continue to actively contribute to society by offering children these and other learning opportunities.



The company held a science event in September 2021 for elementary school pupils. The anime voice actor of Senku Ishigami, Mr. Yusuke Kobayashi, and Kurare, the science supervisor for *Dr. Stone*, made appearances at the event.



MMC's Mr. Ariizumi played the role of lecturer and, mixing in quizzes, explained the company's E-Scrap recycling technology and its copper smelting process.

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