

2021 November

World Scope



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Astomos Energy

Purchase of World-First Carbon-Neutral LPG Shipment

Astomos Energy (AE) has signed an agreement to purchase a Very Large Gas Carrier (VLGC) shipment of carbon-neutral liquefied petroleum gas (LPG) from Shell International Eastern Trading Company (SIETCO). In this agreement, credits from SIETCO's global portfolio of nature-based projects will be used to offset lifecycle CO_{2e} emissions generated across the value chain from production to consumption (combustion), including transportation. Nature-based projects protect, transform or restore land and enable nature to add oxygen and absorb CO_{2e} emissions from the atmosphere. Under the agreement, each carbon offset is subject to a third-party verification process and represents the avoidance or removal of one tonne of CO_{2e}.



This is believed to be the world's first purchase of a carbon-neutral LPG shipment on a VLGC scale.

http://www.astomos.com/zwp/wp-content/uploads/2021/06/news_20210611_en.pdf



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The Mitsubishi Monitor is published by the Mitsubishi Public Affairs Committee

Marunouchi Nakadori Bldg., 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-0005, Japan
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Tamagawa Engineering (Mitsubishi Materials)

Nurturing “Monozukuri” Talent through Community Communication

Mitsubishi Materials (MMC) group company **Tamagawa Engineering**, engaged in the manufacturing and maintenance of labor-saving machinery and equipment as well as in civil engineering and construction, is promoting the nurturing of “monozukuri” (Japanese-style manufacturing) talent. Company staff experienced in construction, machinery design, electrical control and welding are sent to local technical high schools as visiting instructors to teach the best parts of monozukuri. Each year, the company works with a local technical high school and holds the Robocon in Aizu (Aizuwakamatsu City, Fukushima Prefecture) robot contest that provides a stage for everyone from primary school pupils to adults to enjoy doing battle with their robotic creations. The company will continue to nurture monozukuri talent and offer communication opportunities through activities such as these.



A company instructor teaches welding to local technical high school students who look on with keen interest.



Many primary school pupils take part in robot contests held by Tamagawa Engineering.

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Tokio Marine Holdings, Inc.

Casualty Actuarial Society Awards 2021 Hachemeister Prize

Tokio Marine Group employees Mr. Toyoto Tanaka and Mr. Kenji Kondo, together with two fellow members of the Institute of Actuaries of Japan, have been awarded the 2021 Hachemeister Prize for their paper, “AGLM: A Hybrid Modeling Method of GLM and Data Science Techniques” in May 2021. Established in 1993, the Hachemeister Prize is considered the global pinnacle in its field and is awarded annually by the Casualty Actuarial Society (CAS) of North America to ASTIN Bulletin or ASTIN or AFIR Colloquium papers based on several criteria but with emphasis placed on the paper's impact for North American actuaries and its practicality of application. This is the first time a Japanese individual has received the award. The authors have been invited to present their prize-winning paper at the 2021 CAS Annual Meeting to be held November 7-10, 2021.



Mr. Toyoto Tanaka
Tokio Marine HCC



Mr. Kenji Kondo
Tokio Marine & Nichido Life Insurance

[https://www.casact.org/article/
2021-hachemeister-prize-announcement](https://www.casact.org/article/2021-hachemeister-prize-announcement)



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Tokai Ryoko (Mitsubishi Materials)

Donation of Christmas Trees to Local Primary School

Mitsubishi Materials (MMC) group company **Tokai Ryoko**, located close to the center of Nagoya and engaged in the manufacture and sale of ready-mixed concrete, celebrated its 60th anniversary in August 2021. At the end of last year, a local primary school asked for trees they could use in Christmas decorations. After donating 50 Japanese hinoki trees, the company received thank you letters and photographs showing how happy the primary school students had been. Having been contributing to society during the COVID-19 pandemic by providing stable on-site supplies of ready-mixed concrete, Tokai Ryoko will work with its logistic partners as a team aiming for its 70th anniversary in the indispensable role of a new integrated cement company from April 2022.



Primary school students decorate with Japanese hinoki trees in the classroom.



A plant producing ready-mixed concrete.



A fully-decorated Christmas arrangement.

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Mitsubishi Electric

5G OPEN INNOVATION LAB™ Established

Mitsubishi Electric was recently licensed by the Ministry of Internal Affairs and Communications (MIC) to operate local 5G mobile communications, and on June 30 it established the 5G OPEN INNOVATION LAB™ at the company's Information Technology R&D Center in Kamakura. The MIC sanctioned the private use of local 5G systems by enterprises and municipalities in December 2019, and then added to this the sub-6 GHz band (4.6 GHz–4.9 GHz) for the construction of high-convenience wide-area local 5G systems in December 2020. The company will collaborate with customers and partner companies in research and demonstrations using 4.8 GHz to 4.9 GHz frequencies in the sub-6 band with the aim of creating new business opportunities and services. This will enable verification comparisons with Wi-Fi 6, private LTE and other wireless systems.



Further market expansion is expected with the opening of the 5G OPEN INNOVATION LAB™, which will provide an environment for the use of local 5G-based solutions.

<https://www.MitsubishiElectric.com/sites/news/2021/pdf/0628.pdf>



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Mitsubishi Research Institute

New Offices Opened in Vietnam and UAE

Mitsubishi Research Institute (MRI) has opened the Hanoi Representative Office as its first office in the Southeast Asia region and Middle East Regional Office in Dubai. In Vietnam, MRI will assist the Vietnamese government in overcoming various challenges facing the country and surrounding region by collaborating with Japanese and Vietnamese enterprises. MRI will draw on its expertise and achievements in Japan, particularly in areas such as health care, environment, energy, transportation infrastructure development, and information technology (ICT/DX). In the Middle East, the move toward decarbonization is seeing an acceleration in the adoption of environment-friendly infrastructure and the introduction of decarbonization technology. MRI will assist in the transition to a green economy in the public and private sectors in the region starting from designing measures through to their successful implementation. Pinpointing these as priority areas, Mitsubishi Research Institute will contribute to solving societal issues and to making Japanese companies more competitive in both regions.



Exterior and interior of the Hanoi Representative Office, located at 28A Tran Hung Dao, Hanoi, Vietnam.



Left: Middle East Regional Office in the Dubai International Financial Centre.
Right: The office looks out onto Dubai's stylish financial district.

<https://www.mri.co.jp/en/news/20201215.html>



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East Japan Recycling Systems Co., Ltd (Mitsubishi Materials)

Volunteers Keep in Close Touch with Great East Japan Earthquake Disaster Areas

Mitsubishi Materials (MMC) group company East Japan Recycling Systems Co., Ltd (EJRS), which recycles domestic electric appliances in Miyagi Prefecture, has continued the volunteer activities and financial donations that it started after the 2011 Great East Japan Earthquake. During the period immediately after the earthquake and tsunami, plant operations were suspended. One of the EJRS employees came up with the idea that instead of doing nothing, they should act, and took part in volunteer activities with another employee. Deeply impressed by this, the company president himself took part in such activities and this led to many MMC group company employees also joining in. Early in 2011, they were battling to dispose of mountains of rubble and debris, but through this they were able to experience with those affected by the earthquake the process of daily life and work starting up again. With more than half of the residents still unable to return to their homes today, the company will continue its volunteer activities to ensure that the memories of those days after the disaster never die.



Ishinomaki City, May 2011. Work to clear flotsam on the coast began right after the earthquake.



Minamisanriku Town, July 2016. Volunteers are taught by fishermen how to tie together strips of kombu seaweed for sale in convenience stores and to go on the menu at restaurants.



Minamisanriku Town, June 2019. Volunteers help to plant spring onions in soil ridges.

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