

2021 September

## World Scope

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



**MUFG Bank**

### **Supporting California's Largest Hydrogen Fuel Station Business with Debt Financing**

**MUFG Bank** has closed its first hydrogen-linked loan agreement with FirstElement Fuel (FEF), California's largest developer of hydrogen fuel stations, which is funded by institutions such as Mitsui & Co. and the Japan Bank for International Cooperation; this will finance the expansion of FEF's hydrogen fuel station network. FEF currently operates more than half of California's hydrogen stations, is one of the world's largest hydrogen retailers, and has more than 50 large-capacity hydrogen stations under various phases of development in California. By supporting FEF's expansion of its hydrogen distribution infrastructure, MUFG hopes to gain knowledge about California's innovative hydrogen business and benefit its stakeholders and society in the United States and Japan in realizing a low-carbon-emission society.



A hydrogen fuel station operated by FirstElement Fuel, one of the world's largest hydrogen retailers

<https://www.bk.mufg.jp/global/newsroom/admin/newse0426.pdf>



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### Kirin Holdings

## Launch of $\beta$ -Lactolin Series as Foods with Functional Claims

A new product series carrying the Japanese government's "Foods with Functional Claims" label, and containing Kirin Holdings original  $\beta$ -lactolin milk-derived peptide, has been launched by three Kirin group companies and by Megmilk Snow Brand. The milk-derived  $\beta$ -lactolin peptide was discovered during yearslong brain research by Kirin Holdings, in cooperation with Kyowa Kirin and Koiwai Dairy Products. Kirin Holdings have found its development as foods with functional claims to help retain memory capacity which tends to decline with age. In addition, joint research between Kirin Central Research Institute and Keio University has, in a world first, unraveled the mechanism by which the glycine-threonine-tryptophan-tyrosine (GTWY) peptide, a  $\beta$ -lactopeptide ( $\beta$ -lactolin), improves concentration. The results of this research were published by the Japan Society for Bioscience, Biotechnology, and Agrochemistry in March 2021.

The  $\beta$ -lactolin series of "functional claims" products launched from April to June 2021



Megmilk Snow Brand's  
"Kiokukea Yogurt  $\beta$ -lactolin"



Kirin Beverage's  
"KIRIN  $\beta$ -Lactolin"



Koiwai Dairy Products'  
"KOIWAI  $\beta$ -Lactolin milk"



Kyowa HAKKO BIO's  
"KYOWA HAKKO BIO  $\beta$ -Lactolin"

[https://www.kirinholdings.com/en/newsroom/release/2021/0302\\_01.pdf](https://www.kirinholdings.com/en/newsroom/release/2021/0302_01.pdf)



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### NYK Line

## World's First Barge-to-Ship Methanol Bunkering

On May 10, 2021, the methanol dual-fuel chemical tanker Takaroa Sun, owned by NYK Bulkship (Asia), a wholly owned subsidiary company of **NYK Line (NYK)**, participated in the world's first barge-to-ship bunkering of methanol fuel. The bunkering was conducted in Rotterdam port under the leadership of the charterer Waterfront Shipping Company Limited. Methanol fuel produces up to 15% less CO<sup>2</sup> emissions during combustion than conventional fuel oil and reduces sulfur oxide (SO<sub>x</sub>) emissions by approximately 99%. Particulate matter (PM) and nitrogen oxide (NO<sub>x</sub>) are significantly reduced as well. Methanol is expected to be one of the next-generation fuels for future ships that will have a low environmental impact. NYK Group will continue to actively cooperate in the introduction of such next-generation fuels with a low environmental impact and in the pursuit of environment-friendly transportation modes.



The tanker Takaroa Sun undergoing barge-to-ship methanol bunkering in Rotterdam

[https://www.nyk.com/english/news/2021/20210513\\_01.html](https://www.nyk.com/english/news/2021/20210513_01.html)



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### Mitsubishi Logistics

## Temperature-Controlled Areas Introduced in Shanghai Warehouse

Shanghai Linghua Logistics, **Mitsubishi Logistics'** local subsidiary in China, has introduced a temperature-controlled area at its Qingpu warehouse facility. This meets the storage needs for raw materials, semiconductors, medical equipment and other items that need to be kept under temperature-controlled conditions. The company has plans to further invest in temperature-controlled areas in its other warehouses in China. The Mitsubishi Logistics' group network covers major cities throughout China and offers efficient and high-quality logistics services, including import/export forwarding, NVOCC, project cargo transportation, air cargo transportation, bonded logistics, and consolidation.



The temperature-controlled space at the Qingpu Sales Office, located close to the Chonggu exit of the G1503 Shanghai Ring Expressway

<https://www.mitsubishi-logistics.co.jp/english/service/pd/district/china.html>



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**Mitsubishi Electric**

### Joining WIPO GREEN Technology Platform

**Mitsubishi Electric** has become a partner in the WIPO GREEN technology platform operated by the World Intellectual Property Organization (WIPO), through which Mitsubishi Electric will leverage its green technologies to drive open innovation and contribute to global efforts to achieve the United Nation's Sustainable Development Goals. WIPO GREEN is an online platform that promotes the diffusion of green technologies by connecting owners and users to facilitate open innovation. Since launching in 2013, it has attracted 119 global entities as partners, including 25 from Japan as of January 2021. Mitsubishi Electric's participation in WIPO GREEN will create increased opportunities for other entities to take advantage of the company's extensive green technologies and to apply these technologies toward a more sustainable world based on decarbonization and climate-change mitigation.



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<https://www.MitsubishiElectric.com/sites/news/2021/pdf/0315.pdf>



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