



TAKANAWA GATEWAY CITY July 30, 2024 East Japan Railway Company Station City Energy Create Co., Ltd. JR East Logistics Co., Ltd.

NEWS RELEASE

Harnessing hydrogen, biogas and renewable energy TAKANAWA GATEWAY CITY: Kind to People, the City and the Earth

- East Japan Railway Company (JR East), Station City Energy Create Co., Ltd. and JR East Logistics Co., Ltd. plan to harness hydrogen, biogas and other renewable energy sources throughout the approximately 9.5 ha of TAKANAWA GATEWAY CITY, which is schedule to open in March 2025. The entire city will be used to promote sustainable urban development that is kind to people, the city and the earth, to enrich lives for the next 100 years, with the group working together to improve both the appeal and value of the area while further achieving benefits for the earth.
- TAKANAWA GATEWAY CITY is a pilot project for tackling the JR East Group long-term goal embodied in Zero Carbon Challenge 2050, and is planned to have net zero CO₂ emissions from all energy supplied upon opening in March 2025. The city is further planned to utilize hydrogen and circular economy that harnesses waste as a resource to achieve a future in which all activities in the city are beneficial to the earth.



Station City Energy Create Co., Ltd. will work on energy management that integrates supply and demand in order to realize urban development that incorporates advanced environmental and energy technologies. The project will utilize diverse renewable energy sources, fuel cells and food waste-derived biogas systems for the realization of a future hydrogen society.

Furthermore, JR East Logistics Co., Ltd. is working to achieve logistics services for the area that are both environmentally friendly and flexible.

Through these efforts, TAKANAWA GATEWAY CITY will promote sustainable urban development through city-wide endeavors that are kind to people, the city and the earth.

Initiatives for a Zero Carbon, Sustainable City (1) Environmental and Energy Initiatives for Net Zero CO₂ Emissions

A combination of systems that conserve, create and manage energy, as well as utilization of energy certificates, ensure that all electricity in the city is derived from renewable sources to plan net zero CO_2 emissions for all energy supplied upon opening in March 2025.

1 Energy Management

THE LINKPILLAR 2 is equipped with an underground air conditioning facility boasting one of Japan's largest heat storage tanks. This achieves highly efficient energy supply and allows water from the heat storage tank to be used as an emergency supply (for toilets in evacuation facilities, firefighting, etc.) in the event of a disaster, improving BCP¹ of residents and the local community. Furthermore, the demand-responsive zone air conditioning management system² divides building areas into zones to control equipment operation, achieving comfort and cutting-edge, optimized energy utilization throughout the city.



2 Hydrogen Utilization

Through TAKANAWA GATEWAY CITY, we are working to create an environmentally friendly hydrogen society through the use of hydrogen in efforts such as mobility for the community and logistics that support city operation. In the future, we aim for a future in which hydrogen becomes one of the key energy sources by supplying electricity and heat energy derived from hydrogen to the city.

• Hydrogen fuel cell system at Takanawa Gateway Station

A hydrogen fuel cell system will be installed at Takanawa Gateway Station in March 2025. This will allow people to travel comfortably by using the environmentally friendly mobility that utilizes hydrogen derived from renewable energy sources. In the future,

¹Business Continuity Plan Ensuring that vital business operations are not interrupted or can resume within an allotted time when interrupted by a disaster are vital countermeasures to prevent business loss to competitors, declines in market share, and deterioration of corporate reputation.

²Created in partnership between Station City Energy Create Co., Ltd. and Tokyo Gas Co., Ltd., patent registered in August 2022.

the city will also consider the production of hydrogen from renewable energy sources within the city, aiming for further hydrogen utilization.

• An environmentally friendly, next-generation logistics platform

We are constructing a next-generation logistics platform that harnesses IoT to achieve logistics that are flexible and environmentally friendly. In preparation for the opening in March 2025, we developed an external depot (logistics base) in June 2024. In the "Concentrated In-house Carry" service, which utilizes an external depot, packages from outside the region are consolidated once at the external depot, and from there they are efficiently delivered into the city. In addition, delivery inside the city will be carried out with FC (fuel cell) trucks. These efforts help develop an environmentally friendly urban environment by reducing traffic in the area to both ease congestion and cut CO_2 emissions.



(2) Achieving a Circular Economy

We are working toward a circular economy where waste and resources generated by business activities within the city are recycled and used effectively.

Eastern Japan's first in-building biogas facilities

Throughout the city, we are working to plan net zero CO_2 emissions by creating an environmentally friendly, sustainable urban environment through a circular economy where waste is reused as a resource. Part of these efforts involve the installation of Eastern Japan's first in-building biogas facilities in March 2025. We will reuse food waste from area restaurants and commercial facilities, fermenting and gasifying it, thereby reducing waste by approximately 70%. Gas produced in this way will then be used as fuel in biogas boiler-powered buildings to provide 10% of the hotel's hot water.

In addition, we are also considering the collection of CO_2 emitted from the city and its effective use in the life of the city. By further developing initiatives, we will build an urban center that leads the way in environmental action, and all endeavors within TAKANAWA GATEWAY CITY are kind to people, the city and the earth, and visitors, area employees and local residents all contribute in ways that benefit the earth simply by living and working in the area.

[Reference]

TAKANAWA GATEWAY CITY development overview

Carrying on in the tradition of its past as a gateway to Edo (now known as Tokyo) and a history of innovation that began with Japan's first railways, TAKANAWA GATEWAY CITY will be an experimental site to create enriching lives for the next 100 years, where the creation of new culture and business continue under the concept of a Global Gateway.

THE LINKPILLAR 1 and the area around Takanawa Gateway Station open at the end of FY2024 (March 2025), with the other buildings (THE LINKPILLAR 2, the Center for Cultural Innovations, and TAKANAWA GATEWAY CITY RESIDENCE) and the surrounding areas to open in FY2025.

JR East will continue developing the Shinagawa Development Project to enhance the value of Shinagawa Station area (Shinagawa Station North Exit and Shinagawa Station Block)

Official website: https://www.takanawagateway-city.com

