Osaka Gas Launches the Kyocera Enerezza® Plus II Home Energy Storage System Targeting Newly Built Homes with Solar Power Generation Systems, Aiming to Implement the Sumai Battery EX Service, a First in Japan,[1] Which Utilizes Home Battery Storage in the Electricity Trading Market

July 10, 2026
Osaka Gas Co., Ltd.
Osaka Gas Marketing Co., Ltd.
Kyocera Corporation

Osaka Gas Co., Ltd. (hereinafter "Osaka Gas") and Osaka Gas Marketing Co., Ltd. (hereinafter "Osaka Gas Marketing") began selling the innovative home energy storage system Enerezza® Plus II (hereinafter "this Energy Storage") manufactured by Kyocera Corporation (hereinafter "Kyocera") on July 1. Osaka Gas and Osaka Gas Marketing are exploring the use of this Energy Storage, which enables the measurement and control of individual resource devices, to implement Sumai Battery EX—an energy management service leveraging a home's balancing capacity—which is to enter the primary balancing category of the balancing capacity market and the capacity market. Sumai Battery EX aims to be Japan's first[1] service to supply power from battery storage to the balancing capacity market and/or capacity market from newly built homes with solar power generation equipment.[2]

In recent years, the increasing adoption of renewable energy sources, including solar power, has made maintaining the balance between electricity supply and demand a challenge. In this context, the roles of the balancing capacity market, which is intended to balance instantaneous power supply and demand, and the capacity market, the purpose of which is to ensure medium- to long-term power supply capacity, are becoming increasingly important. In April 2026, the balancing capacity market became open to trading based on household balancing capacity, so the utilization of home battery storage and other distributed energy resources is expected to increase.

Furthermore, in the housing market, the GX ZEH[3] housing standard for newly built homes, scheduled to begin in fiscal year 2027, is expected to lead to a further increase in the adoption of battery storage. However, the burden of installation costs remains a challenge for housing developers and tenants.

Sumai Battery EX utilizes this Energy Storage, which supports the measurement of individual resource devices and remote control of each storage battery, and aims to contribute through aggregation to maintaining the balance of power supply and demand and stabilizing power supply.[2] Furthermore, by providing value such as reduced utility costs made possible by returning payment received from supplying electricity to the market and improved energy resilience, Sumai Battery EX supports housing businesses in complying with the GX ZEH standard and increasing the value of their decarbonization efforts.

Enerezza™ Plus II energy storage unit

Under the Energy Transition 2050 initiative, the Daigas Group is working towards achieving carbon neutrality by 2050. In the battery storage business, it aims for 1,000 MW[4] of operational capacity by fiscal 2030, combining grid-connected and renewable energy-connected systems and positioning the business as an important area that contributes to the widespread adoption of renewable energy and stabilization of the power grid. In the household-use market as well, the Daigas Group contributes to stabilizing the supply and demand of electricity by expanding the use of controllable battery storage.

Kyocera operates a diverse range of businesses in the energy sector, including solar power generation systems, energy storage systems, and power services. Leveraging the technologies and expertise it has developed so far, Kyocera is working in the area of energy storage systems to develop and popularize products that offer high safety and a long lifespan, and equipped with functions tailored to the balancing capacity market. Going forward, through collaboration with the Daigas Group, Kyocera will continue to advance energy management utilizing home energy storage systems, contributing to the efficient use of renewable energy and stabilization of electricity supply and demand.

1: Based on a survey conducted by Osaka Gas (as of June 2026). This is Japan's first energy management service aimed at supplying electricity to the balancing capacity market and the capacity market through measurement and control of individual resource devices, targeting newly built homes with solar panels.
2: Challenges still remain regarding methods of handling the measurement of individual resource devices. Efforts will be directed toward resolving them in order to provide the service.
3: GX-ZEH refers to a house that, in addition to having higher energy-saving performance than the level of the previous ZEH, also emphasizes the use of renewable energy such as solar power generation and the expansion of self-consumption. As energy efficiency requirements for newly built homes are gradually becoming tighter, GX-ZEH is expected to become more widespread in the future.
4: Includes projects that have already been decided.

1. Overview of Sumai Battery EX, Osaka Gas's energy management service using home battery storage

Sumai Battery EX remotely controls and aggregates this Energy Storage sold by Osaka Gas to customers' homes based on a contract and provides balancing capacity to the electricity trading market (balancing capacity market and/or capacity market). Osaka Gas will pass a portion of the payment it receives from supplying electricity to the electricity trading market to its customers.

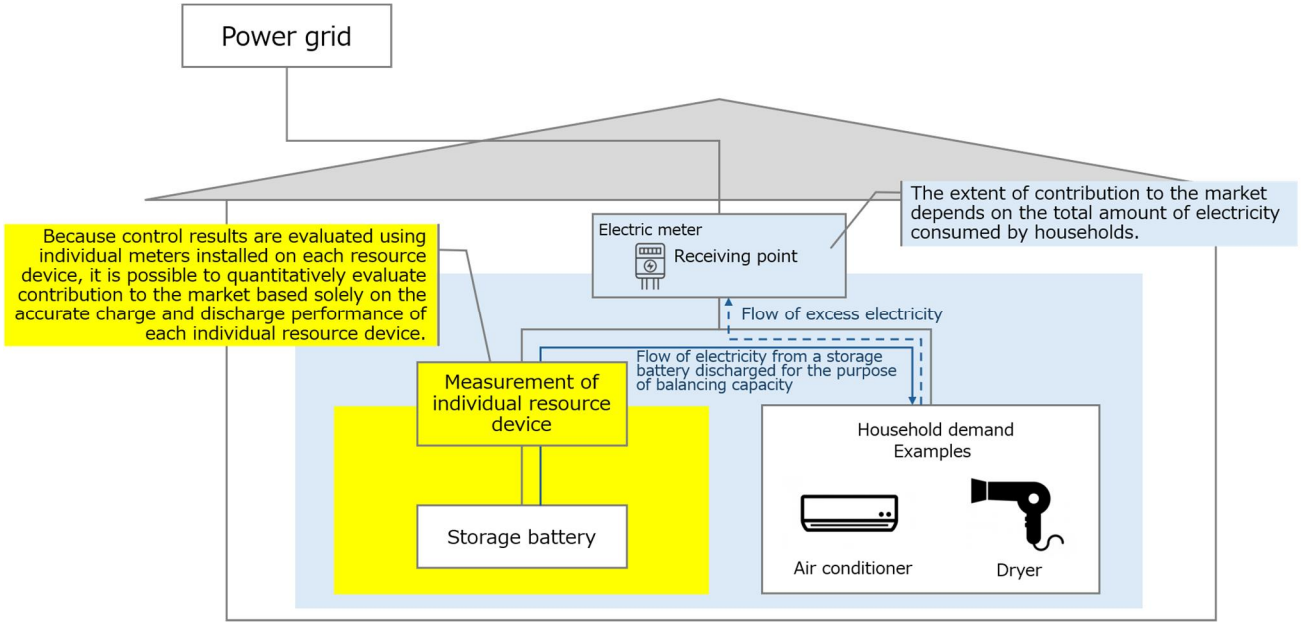
In a hybrid system that integrates solar power generation and battery storage with a single power conditioner, there is a possibility of charging the battery with retail electricity. Therefore, the feed-in tariff (FIT) system cannot be used for electricity flowing back from the battery to the grid. In contrast, Sumai Battery EX aims to create new revenue opportunities that do not depend on FIT by providing balancing capacity to the electricity trading market.

"Measurement of individual resource devices" is a mechanism that measures only the amount of electric power of a target resource device using a meter installed individually on the device, such as a storage battery, and evaluates the control results.[2] Compared to *market entry at the receiving point,* which measures the total amount of electricity consumed by a household and evaluates the control results, this approach allows for the evaluation of the contribution to the market based on the accurate charging and discharging performance of individual resource devices without being affected by the total amount of electricity consumed by the household. Therefore, it is expected to increase profitability in electricity market trading.

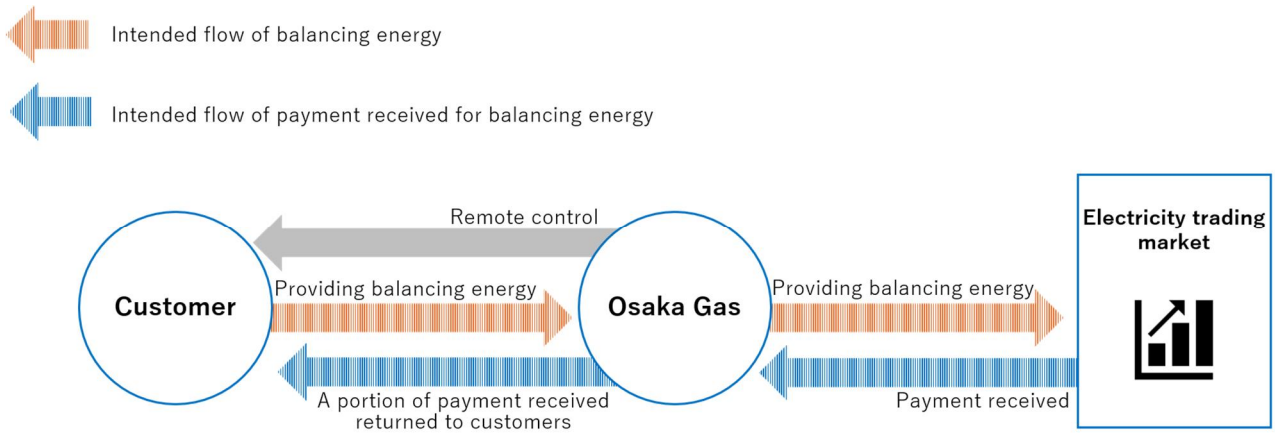
Osaka Gas is currently exploring options with the goal of launching Sumai Battery EX by the end of 2026 at the earliest.

Furthermore, it is working with Sumitomo Forestry Co., Ltd. (hereinafter "Sumitomo Forestry"), the first partner company to endorse this concept and collaborate on its development, to explore sales schemes to enhance the value of housing.

Rendered image of measurement of individual resource devices



Rendered image of service to be provided



Roles of each company

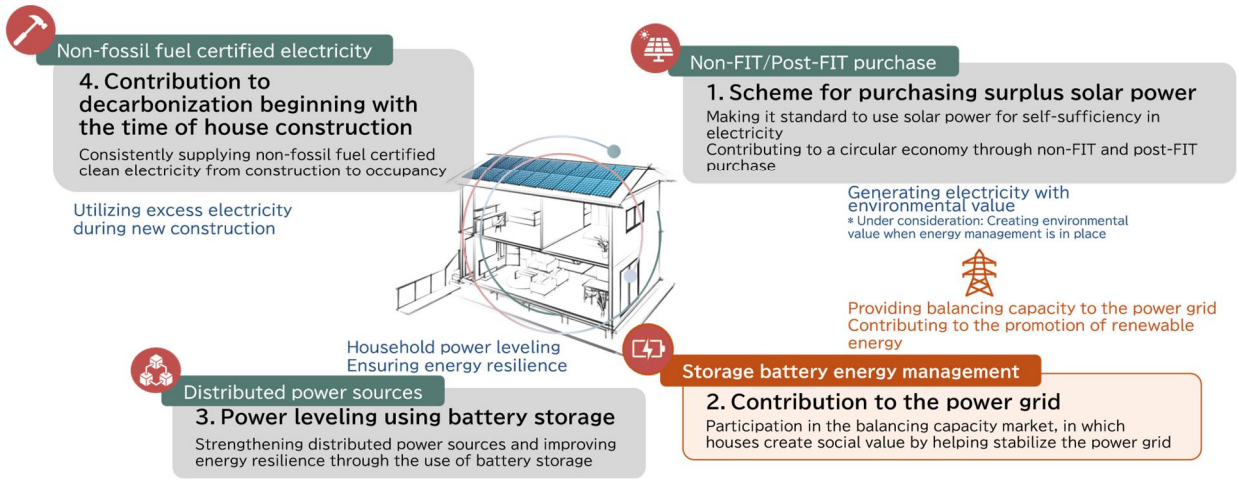
Company name	Roles
Kyocera	Manufacture of storage batteries
Osaka Gas/ Osaka Gas Marketing	Sale of battery energy storage and energy management services Aggregation of storage batteries (remote control and market supply)

A sales scheme developed with Sumitomo Forestry to improve the value of homes using this service

Based on Sumitomo Forestry's endorsement induced by contributions to improved housing value due to reduced utility costs, enhanced energy resilience, and the creation of value from decarbonization brought about by complying with the GX ZEH standard and the use of distributed energy resources, Osaka Gas and Osaka Gas Marketing are exploring a scheme that combines this service with the purchase of surplus solar power and a scheme that provides virtually renewable energy sources during housing construction, thereby promoting the efficient use of electricity and contributing to the power grid.

More specifically, in addition to contributing to the power grid through this service, meeting the GX ZEH standard, and maximizing customer value (Figs. 2 and 3 below), the two companies are also exploring ways to efficiently use electricity throughout the entire lifecycle of a house by means of renewable energy procurement via a scheme for purchasing surplus solar power (Fig. 1 below) and contributions to decarbonized power sources beginning with the time of house construction (Fig. 4 below).

Scheme for the efficient use of electricity throughout the lifecycle of a house and its contribution to the power grid



2. About Kyocera's energy storage system Enerezza® Plus II

Enerezza® Plus II employs a semi-solid clay battery, which Kyocera has successfully mass-produced for the first time in the world,[5] and achieves high safety as demonstrated by being classified as non-hazardous in a hazardous materials identification and evaluation test under the Fire Service Act.

Moreover, anticipating its use in the balancing capacity market where charging and discharging frequency increases, it boasts a long lifespan of 20,000 cycles and swift charge/discharge control that responds instantaneously to fluctuations in power supply and demand.

Furthermore, it features the measurement of individual resource devices suitable for supplying primary balancing capacity, remote control at the storage battery level, and a stable communication environment via LTE™ communication, resulting in a system configuration that anticipates participation in electricity market trading, including the balancing capacity market. In addition, it has obtained the JC-STAR★1 certification,[6] which evaluates and visualizes the security level of IoT products, so customers can use it with peace of mind.

5: As a semi-solid clay-type lithium-ion battery (according to a March 2021 survey by Kyocera)
6: Obtained for the BMS, power conditioner, remote control, and communication modem.

More about Enerezza Plus II
https://www.kyocera.co.jp/solar/products/enerezza-plus-2-h/

Reference

About the Daigas Group's Sumai Selection

Since 2026, the Daigas Group has been rolling out Sumai Selection, a solutions brand targeting housing businesses, providing energy, communication, IoT, and other services as a one-stop solution.

The energy management service Sumai Battery EX is positioned as an advanced version of the brand's existing energy storage service, Sumai Battery. It integrates functions such as optimizing renewable energy self-consumption, energy management (remote control), and linkage with the electricity market, evolving from conventional *battery storage as residential equipment* to *battery storage that also functions as social infrastructure*.

This will allow the Group to provide housing businesses with new value that contributes to compliance with the GX ZEH standard and enhancement of the value of decarbonization.

Corporate Profiles

Osaka Gas

Company name	Osaka Gas Co., Ltd.
Head Office	4-1-2 Hiranomachi, Chuo-ku, Osaka, Japan
Representative	Masataka Fujiwara, President and CEO
Established	April 10, 1897
Business description	Production and sale of gas, generation and sale of electricity, etc.

Osaka Gas Marketing

Company name	Osaka Gas Marketing Co., Ltd.
Head Office	4-1-2 Hiranomachi, Chuo-ku, Osaka, Japan
Representative	Takeshi Morisaki, Representative Director and President
Established	October 1, 2019
Business description	Sale of gas and electricity to residential customers and maintenance work associated therewith, sale of equipment, home renovation and remodeling services, fixed-line communication services, and digital platform services

Kyocera

Corporate name	Kyocera Corporation
Head Office	6 Takeda Tobadono-cho, Fushimi-ku, Kyoto, Kyoto Prefecture
Representative	Shiro Sakushima, President and Representative Director
Established	April 1, 1959
Business description	Development, manufacturing, and sale of components, devices, equipment, systems, and various services in a wide range of fields including information and communication, automotive, environment and energy, and medical and healthcare