

PRESS RELEASE**August 17, 2026**

**Sun Village, Sumitomo Electric and Nissin Systems to Develop a Distributed Energy Resource
Aggregation System for Japan's Balancing Market
— Targeting JC-STAR Certification for a New Battery Control System —**

Sun Village Co., Ltd. (Tokyo Office: Chiyoda-ku, Tokyo; Representative Director: Choji Mimura; hereinafter “Sun Village”) has agreed with Sumitomo Electric Industries, Ltd. (Head Office: Osaka City, Osaka Prefecture; President: Osamu Inoue; hereinafter “Sumitomo Electric”) and Nissin Systems Co., Ltd. (Head Office: Kyoto City, Kyoto Prefecture; President: Hideaki Nagai; hereinafter “Nissin Systems”) to jointly develop a battery control system for solar-plus-storage facilities and an aggregation system.

In recent years, the growing adoption of renewable energy has accelerated the deployment of distributed energy resources, including solar power generation and battery energy storage systems. At the same time, challenges such as managing fluctuations in power output, maintaining grid stability, and balancing electricity supply and demand have increased the need for advanced energy management using battery storage. As participation in markets such as Japan's balancing market expands, demand is also growing for highly accurate control systems.

Against this backdrop, battery storage systems co-located with solar power plants require an energy management system (EMS) and gateway capable of responding accurately and in real time to control commands from aggregators, while appropriately managing the battery state of charge (SOC). Control devices must also meet the requirements of JC-STAR, Japan's cybersecurity conformity assessment and labeling scheme for IoT products promoted by the Ministry of Economy, Trade and Industry (METI).

Sun Village, Sumitomo Electric, and Nissin Systems are combining their respective strengths to introduce a highly secure and reliable EMS and gateway designed to meet JC-STAR requirements. The system will optimize the control of solar generation and battery storage to make efficient use of generated electricity. It will also support participation in the balancing market and enable the coordinated control of multiple distributed energy resources through aggregation, contributing to grid stability and the transition toward a decarbonized society.

Sun Village brings expertise in the operation of power generation and battery storage facilities, as well as experience in electricity market operations. Sumitomo Electric contributes its sEMSA® aggregation system and expertise in power and communications infrastructure, while Nissin Systems brings expertise in EMS, control systems, and embedded software technologies. By combining the expertise and technologies of all three companies, the partners will develop a next-generation control system that is practical, scalable, and responsive to real-world operational needs.

The new system will integrate with Sumitomo Electric's sEMSA® aggregation system for the balancing market, with the aim of creating a seamless platform that connects market bidding with battery control.

sEMSA® is a registered trademark of Sumitomo Electric Industries, Ltd.

System Development Requirements

- Development of an EMS and gateway for controlling battery storage systems co-located with solar PV, with support for area aggregation
- Targeting JC-STAR ★1 certification under Japan's cybersecurity conformity assessment and labeling scheme for IoT products
- Support for Japan's balancing market (Primary Reserve [Offline])

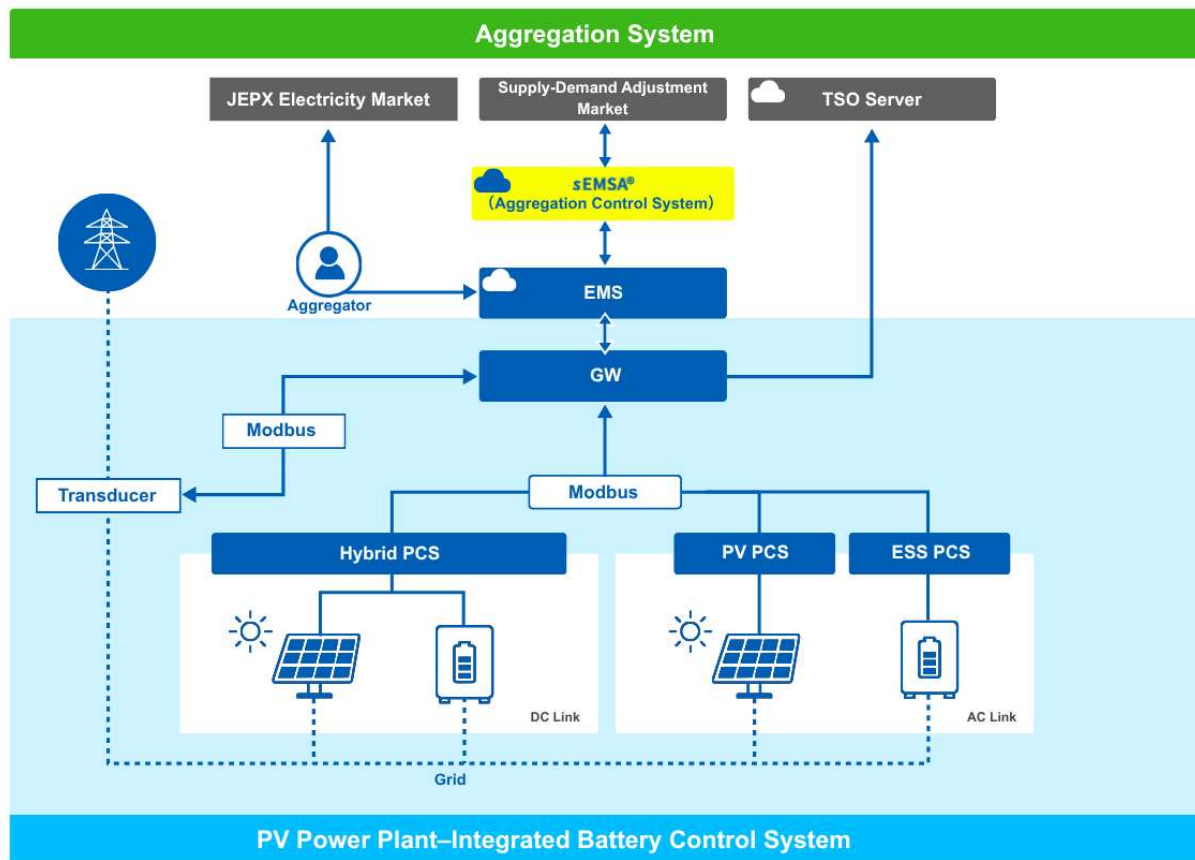
Services Enabled by the System

- Participation of distributed energy resources in the balancing market using the List Pattern Approach
- Optimal control of battery storage systems co-located with off-site solar PV
- Optimal control of battery storage systems co-located with on-site solar PV, including self-consumption solar power systems
- Optimal control and operation of battery storage systems co-located with rooftop solar PV under the Feed-in Premium (FIP) scheme
- Optimal control and operation of battery storage systems co-located with solar PV projects transitioning from FIT to FIP
- Wholesale supply of time-shifted renewable electricity
- Supply of renewable electricity to customers in line with hourly matching (24/7 CFE)
- Energy management services integrating renewable energy generation, battery storage, and electricity supply-demand management

Planned Service Areas

Services are initially planned for Hokkaido, Tohoku, Kanto, Chubu, and Kyushu, followed by a phased nationwide rollout.

System Overview



Sumitomo Electric Industries, Ltd.

Company: Sumitomo Electric Industries, Ltd.

President: Osamu Inoue

Head Office: Sumitomo Building, 4-5-33 Kitahama, Chuo-ku, Osaka, Japan

Business: Global operations across five business segments: Environment & Energy, Infocommunications, Automotive, Electronics, and Industrial Materials

Website: <https://sumitomoelectric.com/jp/>

Nissin Systems Co., Ltd.

Company: Nissin Systems Co., Ltd.

President: Hideaki Nagai

Head Office: Horikawa-dori Shijo Building, 293-1 Ayahorikawa-cho, Horikawa-dori Ayanokoji-sagaru, Shimogyo-ku, Kyoto, Japan

Business: Development of control systems and energy management systems (EMS) for the energy sector as part of the Nissin Electric Group

Website: <https://www.co-nss.co.jp/>

Sun Village Co., Ltd.

Company: Sun Village Co., Ltd.

Representative Director: Choji Mimura

Tokyo Office: 2F, Otemachi First Square West Tower, 1-5-1 Otemachi, Chiyoda-ku, Tokyo 100-0004, Japan

Business: Development of solar power plants and grid-scale battery energy storage facilities, and renewable energy businesses

Website: <https://sunvillage-co-ltd.com/>

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