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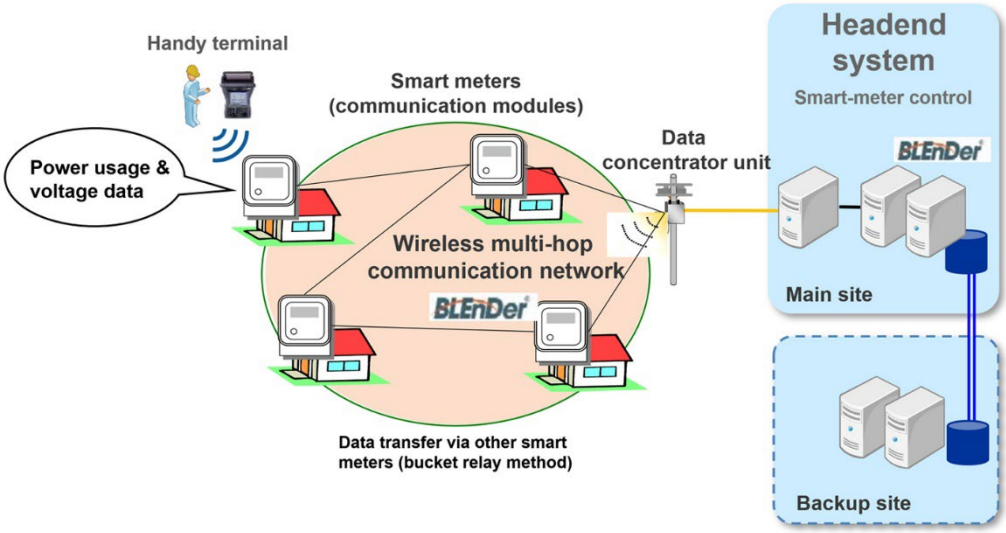
Mitsubishi Electric Delivers Smart-meter System to Taiwan Market as First Overseas Project

Realizes stable smart-meter network for advanced control of power supply and demand



Communication system implemented in Taiwan Power Company's smart meter system

TOKYO, June 28, 2024 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today that, in cooperation with system integrator Glory Technology Service Inc. and Taiwan's leading telecommunications company Chunghwa Telecom Co., Ltd., it has supplied Taiwan Power Company (Taipower) with a headend system as the central point for managing and controlling smart meters, and also communication modules to be embedded into the smart meters and data concentrator units. The system is already in partial operation as the first smart meter system delivered by Mitsubishi Electric outside Japan.

Mitsubishi Electric's BLEnDer®* headend system is software package responsible for the core functions of the smart meter infrastructure, including data collection and communication control, and is flexibly compatible with various communication methods. The solution utilizes low-cost communication method to form its own

* BLEnDer® is series of packaged software products developed by Mitsubishi Electric to comprehensively handle power trading and supply-demand control in power systems

mesh network that connects smart meters in each home for wide-area communication. The key is the system's use of wireless multi-hop communication in which modules repeatedly transfer data to each other in "bucket" (grouped) relays for wide-area communication.

Mitsubishi Electric's smart-meter system was highly evaluated in Japan for its high connectivity, scalability, flexibility robust security measures, and stable operational performance, leading to the order.

Product Features

1) Contributes to realization of wide-area power supply and demand control

- Smart meters installed in each home are connected to a wireless multi-hop communication network to automate the collection of data on power consumption, etc. If communication via one route is interrupted, the system automatically searches for a redundant route.
- BLEnDer® expertise enables selection of optimal communication routes to ensure high-quality data transmission, and allows the use of low-cost communication infrastructure to construct a stable smart-meter network over a wide area.

2) High security and future function expansion are possible

- The use of advanced BLEnDer® encryption technology ensures robust security to prevent data hacking and information leakage for high reliability.
- Achieves high data rates and offers flexible adaptation for connection with future systems, advanced data usage, and expanded functions.

Taiwan is aggressively adopting renewable energy in response to fast-rising fuel costs and the global trend toward decarbonization. Power demand and supply must be balanced in any power system to ensure stable operation, but in the case of renewable energy, power output varies greatly depending on factors such as season, weather and time zones. Power grid operators must be especially diligent in monitoring power demand and responding with appropriate adjustments in power demand and supply.

Taipower, Taiwan's state-owned power utility, began deploying a smart-meter system in 2018 to improve its power demand and supply management. The system uses wireless communication to connect smart meters in every home to the company's servers to collect information on power consumption and meter status, and to perform information command and control for advanced management of power supply and demand. While the installation of smart meters in every home will require the development of a large-scale, wide-area communication network, the goal is to minimize the cost and time of system construction in order to avoid a significant increase in electricity rates.

Future Plans and Prospects

The introduction of renewable energy and the accelerated decentralization of power sources worldwide are expected to lead to increasingly complex and sophisticated power systems. Mitsubishi Electric is committed

to providing high-quality products and solutions for flexible power management, as well as creating related service businesses, to help realize a safe and secure world where people can use electricity with confidence.

BLEnDer is a registered trademark of Mitsubishi Electric Corporation.

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About Mitsubishi Electric Corporation

With more than 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Mitsubishi Electric enriches society with technology in the spirit of its "Changes for the Better." The company recorded a revenue of 5,257.9 billion yen (U.S.$ 34.8 billion*) in the fiscal year ended March 31, 2024. For more information, please visit www.MitsubishiElectric.com

*U.S. dollar amounts are translated from yen at the rate of ¥151=U.S.$1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2024