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Mitsubishi Electric's New Integrated-automation Factory to Produce Vacuum Interrupters and Vacuum Circuit Breakers

Built for innovative, efficient IoT-based production based on "e-F@ctory" concept

TOKYO, February 20, 2018 – [Mitsubishi Electric Corporation](#) (TOKYO: 6503) announced today that it has completed construction of an integrated-automation factory for the production of vacuum interrupters and circuit breakers at its Power Distribution Systems Center in Marugame, Japan. The new factory will deploy Mitsubishi Electric's e-F@ctory concept of integrated automation based on IoT technologies to achieve high efficiency, high productivity and minimized cost. Combined sales of vacuum interrupters and vacuum circuit breakers are expected to rise to 12 billion yen by 2025.



New integrated-automation vacuum interrupter and circuit breaker factory

The company's e-F@ctory concept makes use of cutting-edge technologies to visualize information and integrate with high-level manufacturing-execution systems for advanced production. The new factory leverages this knowhow to unify production information, from orders to assembly to shipments, for enhanced productivity and product quality. The e-F@ctory concept will also be used to improve cycle speeds and shorten lead times.

The integrated-automation production line's uptime will be maximized through the partial introduction of automatic assembly and testing devices for vacuum interrupters and vacuum circuit breakers, which previously had been decentralized within the Power Distribution Systems Center.

The factory is the first to deploy Mitsubishi Electric's D-SMiree System* for medium- and low-voltage direct-current distribution systems of voltages up to 1,500V DC. In addition, the new factory will deploy advanced energy-saving equipment and energy-loss visualization technologies to minimize its environmental footprint and energy consumption.

* D-SMiree – Diamond-Smart Medium Voltage Direct Current Distribution Network System for Innovative Reliable Economical Ecology

Overview of New Factory

Location	8 Horai-cho, Marugame, Kagawa Prefecture, Japan
Building area	Approx. 12,900 m ² (floor area: approx. 14,200 m ²)
Structure	Two-story steel construction
Main facilities	Areas for production, testing and offices for design, engineering and QC departments
Start of operation	July 2018 (sequentially from March 2018)
Environmental measures	Approx. 280 ton-reduction in annual CO ² emissions: <ul style="list-style-type: none"> • Solar-powered system (initially 200kW, then 600kW by 2020) • High-efficiency equipment (LED lighting, transformer, etc.) • Radiation air-conditioning system • D-SMiree System for medium- and low-voltage DC distribution

The global demand for vacuum interrupters and vacuum circuit breakers is foreseen expanding over the mid to long term due to the increasing introduction of renewable-energy facilities and the upgrading of existing electrical distribution equipment at power utilities, railways and factories. The new factory gives Mitsubishi Electric the necessary production capacity to meet current demand and over the longer term will provide the necessary competitiveness to expand sales share and enter new markets for vacuum interrupters and vacuum circuit breakers.

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About Mitsubishi Electric Corporation

With over 90 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. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,238.6 billion yen (US\$ 37.8 billion*) in the fiscal year ended March 31, 2017. For more information visit:

www.MitsubishiElectric.com

*At an exchange rate of 112 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2017