



MITSUBISHI ELECTRIC POWER PRODUCTS, INC.

**Mitsubishi Electric Power Products, Inc.
Enters the Distribution FACTS Device Market**

Grid CoRe™ Introduced to Support the Accelerated Growth of Distributed Energy Resources (DER)

WARRENDALE, Pennsylvania – January 17, 2017 – Mitsubishi Electric Power Products, Inc. Electrical Distribution Division enters the flexible alternating current transmission system (FACTS) market with the introduction of a utility-scale distributed power electronics solution. The Grid CoRe™ (Correction and Regulation) series of products are designed specifically to meet the utility challenges of distributed generation, two-way power flow, volt-var optimization, and conservation voltage reduction (CVR) initiatives.

At the heart of each Grid CoRe™ unit is an advanced three-phase static synchronous compensator (STATCOM). Leveraging the reliability of Mitsubishi Electric insulated gate bipolar transistor (IGBT) modules and modular multilevel converter architecture, Grid CoRe™ provides sub-cycle volt-var optimization combined with additional grid support features including voltage phase balancing and harmonic mitigation. Outperforming conventional equipment made up of multiple parts such as reactors, shunt capacitors, and load tap changers, Grid CoRe™ combines these functions into a single unit for a more stable grid and improved recovery after a transient event.

“Mvar-sized FACTS devices are required to support grid stability at the transmission level. By moving into the primary distribution network, Mitsubishi Electric has the potential to have a significant impact on MVA-sized feeders with kvar-sized devices,” stated Kevin Goldstein, engineering and development manager for the Electrical Distribution Division of Mitsubishi Electric Power Products, Inc.

Utilizing a decentralized solution, Grid CoRe™ is available in up to 2,000 kvar in building blocks of 500 kvar units. Supporting the primary distribution grid up to 46kV, this decentralized model allows the utility to target a specific localized grid issue. It can also apply additional units to dynamically change the

active voltage profile along an entire feeder, requiring up to 20 percent less total kvar than a centralized solution.

“With more than 30 years of electrical equipment experience, Mitsubishi Electric is poised to meet the modern needs of utilities by supporting distributed energy sources,” said Goldstein. “Grid CoRe™ will allow our customers to avoid costly reconductoring and remedy voltage violations.”

About Mitsubishi Electric Power Products, Inc.

Headquartered in Warrendale, PA, Mitsubishi Electric Power Products, Inc. is a US affiliate of Mitsubishi Electric Corporation of Japan, and serves the North American power systems, rail transportation and water treatment industries with electrical and electronic products, systems and services. Products include gas circuit breakers, vacuum circuit breakers, power transformers, gas insulated substations, power electronics and electricity transmission technologies, generator services, nuclear power plant control systems, ozone water treatment systems, uninterruptible power supplies and rail transportation equipment. Information on Mitsubishi Electric Power Products’ complete line of products and services can be found at www.MEPP.com.

In addition to electric utility products, [Mitsubishi Electric US group companies’](#) principal businesses include semiconductor devices, automotive electrical components, factory automation products and services, heating and cooling products, solar modules, and large-scale video displays for stadiums and arenas. Mitsubishi Electric US group companies have roughly 50 locations throughout North America with approximately 4,000 employees.

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