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## **Mitsubishi Electric to Enter North American Photovoltaic Inverter Market for Large-Scale Solar Power Generation Systems**

**100kW, 250kW Inverters to Help PV Installation Companies Reduce System, Maintenance Costs**

**Tokyo, October 1, 2009** – [Mitsubishi Electric Corporation](#) (TOKYO: 6503) announced today it will introduce two photovoltaic (PV) inverters to the North American market, with the 100kW model scheduled for launch in October 2010 and the 250kW model scheduled in April 2011. This will make the company the first Japanese manufacturer to enter the North American, large-scale PV inverter market. Mitsubishi Electric also plans to market these inverters in Japan.

To reduce system costs and fulfill maintenance needs for large industrial PV systems, there is a demand for improvement in PV module efficiency, as well as for higher efficiency in peripheral equipment such as PV inverters. Inverters are essential in PV systems that convert DC electricity generated from solar cells into AC electricity for power grid use. Mitsubishi Electric will fulfill these demands for highly-efficient PV inverters in the U.S. market by introducing its new products through [Mitsubishi Electric & Electronics USA, Inc.](#), which has been involved in the U.S. PV module business since October 2004.

PV installation companies will benefit not only from the high efficiency of the Mitsubishi Electric's PV inverters, but also by buying PV modules and inverters from the same manufacturer, which makes procurement, installation and maintenance easier. Mitsubishi Electric also plans to reinforce its PV system maintenance capabilities by assigning designated staff to the Photovoltaic Division of Mitsubishi Electric & Electronics USA, Inc.

The large-scale PV inverters will be developed and manufactured at Mitsubishi Electric's Nagasaki Works in Japan, which has ample experience and know-how in utilities and social infrastructure-related businesses. Mitsubishi Electric has already announced the development of new technologies that will help achieve a conversion efficiency rate of 97.5 percent, the highest rate in 100kW-480V PV inverters at a load of 75 percent. The company plans to employ these technologies; the gradationally-controlled inverter technology

and a transformer-less specification, to launch highly efficient PV inverters that are small and light. The products can be used in outdoor environments that meet severe climatic conditions such as deserts and remote locations.

A prototype 100kW model will be on display at the Solar Power International 2009 in Anaheim, California, USA from October 27-29. Mitsubishi Electric will continue its efforts to verify the environmental resistance and reliability of these inverters, and acquire certifications in order to market the large-scale PV inverters in the United States.

### **Background**

The global PV systems market is rapidly expanding due to increasing concerns about environmental protection, as seen in worldwide efforts to reduce carbon dioxide emissions to prevent global warming. In the United States, which has recently seen an increase in government subsidies, there are numerous large PV plants built mainly for the purpose of receiving returns on investments. These large, industrial PV systems of 100kW and over cover approximately 70 percent of the demand, with the market expected to expand further with the Green New Deal and other federal incentives.

### **About Mitsubishi Electric**

With over 85 years of experience in providing reliable, high-quality products to both corporate clients and general consumers all over the world, 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. The company recorded consolidated group sales of 3,665.1 billion yen (US\$ 37.4 billion\*) in the fiscal year ended March 31, 2009. For more information visit <http://global.mitsubishielectric.com>

\*At an exchange rate of 98 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2009.

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