Mitsubishi Electric Begins Full-scale Testing of Smart Grid in Japan

Targeting annual sales of 1.3 trillion JPY by 2016

Tokyo, October 19, 2011 – Mitsubishi Electric Corporation (TOKYO: 6503) announced today that it has begun full-scale tests of smart grid and related smart-community technologies at the company’s production sites in Japan. The aim of the project is to develop and test products including commercial systems, equipment and solutions for annual sales worth 1.3 trillion yen (about 17 billion USD) by March 2016.

Through the project, Mitsubishi Electric intends to contribute to sustainable low-carbon societies establishing an economic and highly-reliable power grid. At the same time, the company aims to provide society with a system that enables consumers to visualize and control electricity consumption for optimized energy use. The project also focuses on the development of robust energy infrastructure that offers continuity in emergency situations, in the wake of the Great East Japan Earthquake.

Since May 2010, the company had been developing smart-grid infrastructure worth about 7 billion yen, including systems for supply and demand management, next-generation distribution management, advanced metering and energy management. The full-scale testing will focus on four main areas:

- Demand-supply balancing: technologies and algorithm to manage a large amount of renewable energy connected to the power grid.
- Distribution network management: technologies and equipment for voltage control, to prevent instability caused by a large number of photovoltaic systems installed in buildings and residences.
- Total grid operation for the future: comprehensive evaluation of an envisioned environment in 2020, when a large volume of renewable energy will be connected to the network and electricity demand will be aggregated in communities.
- Specific operation: technologies for independent micro grid such as island or partially connected regions.
The tests will also focus on the verification of smart grid technologies performances in very severe conditions for the power system including loss of part of the grid by earthquake, lightning and other weather related events.

About Mitsubishi Electric
With 90 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 3,645.3 billion yen (US$ 43.9 billion*) in the fiscal year ended March 31, 2011. For more information visit http://www.MitsubishiElectric.com

*At an exchange rate of 83 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2011