

# Press Information

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## **MHI Receives Full Turnkey Order from CFE, Mexico, For 50 MW Geothermal Power Generation Plant**

Tokyo, September 6, 2012 - Mitsubishi Heavy Industries, Ltd. (MHI), jointly with Mitsubishi Corporation, has received a full turnkey order from Comision Federal de Electricidad (CFE) of Mexico to build a 50 MW (megawatt) geothermal power generation plant at its Los Azufres III power station. The power plant, which is slated for completion in December 2014, represents the 12th geothermal power plant to be supplied by MHI to Mexico.



Geothermal Steam Turbine Generator previously delivered to Cerro Prieto power station in Mexico

The Los Azufres III power station is to be located in Michoacan, approximately 250 kilometers west of Mexico City, the capital. In this plant construction project, MHI will be responsible for engineering, manufacture, procurement and installation of major components, including the steam turbine, and balance of plant (BOP), as well as civil engineering work. The generator will be supplied by Mitsubishi Electric Corporation.

CFE, a state-owned electric utility, generates, transports, distributes and markets electric power under the administration of the countrys Ministry of Energy (SENER). CFE operates various types of power generation plants, including thermal, hydro, nuclear, geothermal and wind power. MHI has a longstanding relationship with CFE and has delivered power generation systems equivalent to 30% of the utility's power output.

Mexico ranks fifth in the world in terms of geothermal resources, and MHI has delivered five geothermal power plants to the Los Azufres power station and six units to the Cerro Prieto power station. Together with these existing plants, the new geothermal power plant will provide electricity to meet strong demand in Mexico, where steady economic growth is projected in the coming years.

Geothermal power generation utilizes geothermal fluid, a mixture of high-temperature water and steam extracted from deep underground reservoirs through production wells. The steam extracted from the fluid is used to rotate steam turbines. Geothermal power generation involves no fuel combustion, so it emits no CO<sub>2</sub>, and it is not affected by weather in generating power, unlike photovoltaic or wind power generation. Due to these advantages, geothermal power generation has been gathering significant attention as a clean energy that contributes to environmental preservation.

MHI is a leading company in geothermal power generation systems, having to date received orders for more than 100 units from 13 countries. The installed capacity of these units totals 3,010 MW, equal to approximately 30% of the world's geothermal power generation installed capacity. Leveraging this strong track record and its technological expertise, MHI will continue aggressive marketing activities for its geothermal power generation systems that contribute to efforts to prevent global warming.