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Business News

Turboden to supply power generation system to EDC

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Italian firm Turboden and Japanese company Mitsubishi Power Ltd. will supply Energy Development Corp. (EDC) with a 29-megawatt (MW)



binary cycle power generation equipment that will be installed at a geothermal power plant in Palayan, Albay.

Under the supply contract, Turboden, which is controlled by Mitsubishi Heavy Industries Ltd. (MHI), will provide the complete power generation system, while Mitsubishi Power will provide support through its local resources.

“The power generation system to be provided by Turboden will add new binary cycle geothermal power equipment, whose key component is the company’s proprietary 29MW ORC (Organic Rankine Cycle) system, to the existing 120MW flash type geothermal power plant owned and operated by Bac-Man Geothermal Inc. (BGI), an EDC power subsidiary,” a statement read.

The company noted that the new system will utilize brine, which until now has merely been returned to a reinjection well.

“By replacing power in the power grid now derived from fossil fuels, the new installation will enable reduction of CO2 emissions derived from steam power,” the statement read.

The Japanese Ministry of the Environment is helping finance the project as part of its goal of reducing CO2 emissions globally.

“The new 29MW binary cycle power generation configuration is expected to trim CO2 emissions by approximately 72,200 tons per year—equivalent to some 20,000 hectares of forest,” the statement read.



Mitsubishi Power will dispatch personnel to the site to offer installation guidance and handle domestic transport, through MHI Power (Philippines) Plant Services Corp., its local subsidiary.

The order calls for project completion and operation startup by the end of 2022.






EDC is the world’s largest vertically integrated geothermal energy company, with technical expertise in wet steam field technology since 1976. It is also currently the country’s largest renewable energy (RE) maker, providing 42 percent of the Philippines’s total generated RE output and around 11 percent of overall electricity demand with its total installed capacity of 1,473.3 MW.






Bulk of its portfolio is geothermal energy at 1,179 MW, accounting for 61 percent of the country’s total installed capacity for the energy source.

EDC’s clean energy portfolio includes 150 MW of wind, 132.5 MW of hydroelectric and 11.97 MW of solar energy.

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