

Barge Mounted Combined Cycle Power Plant

The Puerto Plata power project, the first independent power project in the Dominican Republic, brings 185 MW of generating capacity to the national grid of the state-owned utility, the Corporacion Dominicana de Electricidad. Raytheon and General Electric, as a consortium team, entered into a turnkey contract with Smith/Enron Cogeneration Limited Partnership and provided all design, engineering, equipment and construction services for the plant.

The power plant was completed in two phases, both built barge-mounted at a U.S. shipyard in Texas. Both barges were towed to Puerto Plata, Dominican Republic, for final construction and start up. Phase I is a 76 MW, simple-cycle, combustion turbine unit with a transformer and switchyard on a 72 ft. x 250 ft. barge. Phase II is the balance of the plant for a total of 185 MW in combined cycle on a 100 ft. x 278 ft. barge. Raytheon dredged a basin for the plant at the site, drove steel H-piles and topped them with concrete caps to receive the barge-mounted units. The plant is designed to comply with the environmental protection standards established by the World Bank.

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