

# TECHNOLOGY DEVELOPMENT PROJECT FACT SHEET

## SP021: San Juanico, Baja Sur, Mexico

In 1994 APS and Mexico's national electric utility, Comisión Federal de Electricidad (CFE) agreed to upgrade an existing diesel generator-based system in a remote fishing village in Mexico.

Previously, San Juanico, with a population of about 400, had electricity for only three hours per day. The cost of fuel to operate San Juanico's power source, a diesel generator prohibited the villagers from using more electricity to further develop the community's commercial fishing, including ice for preservation of the daily catch, and tourism business ventures.



Using the new power plant with energy derived primarily from wind and solar, the community has power 24 hours a day, allowing preservation of the daily catch, as well as improved food storage in residents' homes.

The plant was designed by APS and built by CFE with assistance from the National Energy Renewable Labs (NREL) of Colorado on behalf of the U.S. Department of Energy. The U.S. Department of Energy, U.S. Agency for International Development, the Municipality of Comondu, and the State of Baja California Sur provided additional financial support for this project.

Location: [BAJA SUR, MEXICO](#)

Plant Output:	100,000 Watts DC Wind 17,000 Watts DC Solar 80,000 Watts Backup Diesel Generator
Solar Module Manufacturer:	ASE Americas
Solar Module Power:	285 Watt
Quantity of Solar Modules:	60
Type of Tracking	Fixed
Wind Turbine Generator Manufacturer	Bergey Wind Power
Wind Turbine Power	10 kW (Bergey Excel)
Quantity of Wind Turbines	10
Inverter Manufacturer:	Trace Technologies (Xantrex)
Inverter Power Rating, AC :	70 kW
Quantity of Inverters:	1
Projected Annual Energy Generation:	200,000 kWh AC



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