Case Study

Rural electrification // Perico Island

SOLAR ENGINEERING (SEESA DIVISION) // USAID

EL SALVADOR

The Challenge

Perico Island, situated in Union Bay in El Salvador's southern parts, has never been connected to the country's electrical grid. To improve the lifestyle of its inhabitants and to stimulate the social and economic development of the community the Regional Clean Energy Initiative (RCEI) sponsored by the United States Agency for International Development (USAID) decided to install 33 isolated solar systems.

Ingeniería solar

Ingeniería solar (SEESA division), a company with more than 15 years of experience in the development of solar systems in the country and committed to the implementation of renewable energies, was chosen for the supply, installation and commissioning of the off-grid systems.

As the bay presents a very adverse environment with specific climatic conditions, USAID requested that the installed equipment must convey to certain terms of reference and characteristics.

Why Studer

STUDER complies with the work standards established by USAID to provide a better life for the inhabitants. The STUDER AJ inverter series meets all the quality and reliability requirements required by USAID.

The Solution

Supplying high-tech equipment for the generation of electricity through photovoltaic systems to the inhabitants of Perico Island. Thanks to this, the objective of improving social and economic development in the area is met.

System components

The system contains the following components:

1 x AJ 500-12-01 STUDER inverter
1 x 190W 12V solar panels. EverExceed
1 x LiFePo4 100Ah lithium-ion battery
1 x PS-MPPT-25-PS- MORNINGSTAR solar controller
Electrical protections

Project outcome

The solution offers a better quality of life to the people of the island, and benefits the economic development of all the inhabitants by increasing their fishing production. It was possible to eliminate the consumption of gasoline which was used for lighting.

The Company

Ingeniería solar (solar engineering) is a division of the company Suministros Eléctricos y Electrónicos S.A (SEESA), which has been a market player in the country in the field of electronic supply for 38 years. Founded by Ing. Roberto Antonio Bonilla Alvarado owing to his great vision of promoting renewable energies in the country, it has installed more than 1000 isolated photovoltaic systems, water heating systems and grid connection systems.

The United States Agency for International Development, also known by its acronym, USAID, is the US institution responsible for distributing most foreign aid of a non-military nature. It is an independent body although it receives strategic guidelines from the Department of State.

For more information please contact:

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