

Case study

GRANADA ISLET BORA BORA

Nicaragua



The challenge

There are 365 islets in the lake Nicaragua, most of them without grid connection. When one of the islets of Grenada, the small Bora Bora island, passed on as a heritage from father to son, the new proprietor wanted to honour his father by completely renovating and modernising the house.



Ecami

One important step was adding a renewable energy system in order to turn the facilities into a tourist location. As there is no grid for backup, it is necessary to dimension the system properly taking into consideration any peak demand.

Why STUDER

The Bora Bora islet is remotely situated in a very humid climate. The customer chose STUDER as it is a globally recognised brand known for the quality and reliability of its products which reassured him for this installation.

STUDER equipment also has an extremely wide range of parameters that can be coupled with any type of system, demonstrating excellent results

System components

The system contains the following components:

- 7 x Trina solar polycrystalline modules, 265Wp
- 12x Ritar 12V 100Ah battery bank
- 1 x STUDER VarioTrack MPPT solar charge controller VT-65
- 1 x STUDER Xtender inverter/charger XTM-4000-48-01
- 1 x RCC-02 remote control

The Solution

A photovoltaic installation was set up in order to supply an extraction pump with enough energy to pump water from the well and in addition providing electricity for other potential loads such as lamps and computers.

Project outcome

The solar installation has drastically reduced the use of the diesel generator, making the need for diesel transportation to the island via boat less frequent which is positively influencing the operational cost.

With the photovoltaic array being very visible, it has stirred interest among the other islets' inhabitants, becoming a reference for solar installations in the area.

The Company

ECAMI

ECAMI SA is a Nicaraguan company with over 25 years of experience as a leader in developing projects with alternative renewable energy sources, mostly photovoltaic energy. Since its inception, the company's mission has been to provide new technologies through a viable business model that allows easy access to clean energy and its efficient use to people and businesses across Central America. They prioritise sectors with a low-income population and provide a wide range of high-quality products and services adjusted to the needs of each client.

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