

**PIENAAR ENERGY (PTY) LTD**

# Is there solar power on the island



## Overview

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The island's solar photovoltaic (PV) and desalination systems became operational in the fourth quarter of 2022, in time for the island's annual pilgrimage season, and could even support the surge in demand when a record 22,523 visitors went there in October 2023. In 1951, Bonneville Power Administration engineers completed the installation of a 7.5-mile, 25,000-volt submarine power cable connecting Anacortes to Decatur Island, which was the world's longest underwater power line at that time. Approximately 500 spectators gathered along the shoreline, and. The world's most remote solar photovoltaic plant is supplying clean energy to the inhabitants of Easter Island. This 160 km<sup>2</sup> triangle of earth emerging from the middle of nowhere in the Pacific Ocean, between Chile and the. Many have reached their 100% renewable energy goals by utilizing a combination of renewable energy sources (solar, wind turbines, geothermal, hydroelectric power plants, solar, and/or experimental technology), but some have been able to depend on a single technology. Due to the traditionally very high electricity prices for island off-takers and because of international support schemes renewable energy applications on islands have a long history.

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### From Shore to Grid, Trinasolar Lights Up Island Communities

In Bohol, the Philippines' first UNESCO Global Geopark, Trinasolar supplied its first large-scale solar farm, Dagohoy solar power project, which was successfully connected to the grid in 2024.

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### Decatur Island solar expansion exposes tensions over energy future

The proposed expansion of the island's existing solar array -- clearing approximately 8 acres of second-growth forest to add up to 2.1 megawatts of capacity -- has united the fractured ...



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### Tau Island: From Diesel to 100% Solar Power

Recently, Tau Island made headlines with the inauguration of a groundbreaking solar microgrid from Tesla's SolarCity -- a project that has propelled the island towards 100% solar power.

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## On a rural Hawaiian island, solar provides a path to energy sovereignty

On Moloka'i, about 500 rooftop arrays generate 15 percent of the island's power, with the rest produced by Hawaiian Electric Company's diesel-powered plant. These two sources supply

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## Database: Solar & wind power plants on Islands

There is a huge potential for renewable energy applications on islands. Due to the traditionally very high electricity prices for island off-takers and because of international support schemes renewable ...

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## 100% Renewable Islands Paving the Way Forward

Samsø reached their renewable energy goal in 2007 and are now working on the next phase of the project; becoming 100% fossil fuel free by 2030. 100% of Samsø's electricity is powered ...

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## Solar Power Is An Isolated Island's Weapon Against A



## Fossil Fuel

The Philippine Department of Science and Technology (DOST) in Siquijor successfully installed a hybrid solar power system for the Bosong-bosong Water Services Association (BWSLA) ...

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## Kusu Island fully powered by solar energy, with Pulau ...

The solar panels on Kusu Island, arranged in a tortoise shape, allows the island to be completely self-reliant to produce its own water and power.

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### Applications



## Rapa Nui, the island where the future is in the Sun

The world's most remote solar photovoltaic plant is supplying clean energy to the inhabitants of Easter Island.

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## Island and Reef Solar Power Generation: Harnessing Sunshine in ...

Ta'u Island in American Samoa runs on 100% solar power thanks to Tesla's

microgrid. But the real MVP might be Fiji's "Solar Mamas" program - grandmothers trained as solar engineers who now maintain ...

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