



# Pitcairn Islands industrial solar power plant

Can solar energy replace fossil fuels on Pitcairn Island?

Pitcairn's authorities have launched a renewable energy project designed to replace fossil fuels with solar energy. The goal is to replace 95% of the current diesel consumption on Pitcairn Island (75,000 liters per year) with a combination of energy saving and solar electricity through the installation of a hybrid photovoltaic solar energy system.

Are the Pitcairn Islands Green?

Pitcairn Islands, a group of five islands with a total area of 47 km<sup>2</sup> and which constitute one of the most remote archipelagos in the world, turn to safer, greener energies that best meet the needs of the population. Pitcairn's authorities have launched a renewable energy project designed to replace fossil fuels with solar energy.

Where are the Pitcairn Islands located?

The Pitcairn Islands (/ˈpɪtkɛərən /PIT-kairn; Pitkern: Pitkern Ailen), officially Pitcairn, Henderson, Ducie and Oeno Islands, are a group of four volcanic islands in the southern Pacific Ocean that form the sole British Overseas Territory in the Pacific Ocean.

Does Pitcairn Island have an airport?

Pitcairn Island does not have an airport, airstrip or seaport; the islanders rely on longboats to ferry people and goods between visiting ships and shore through Bounty Bay. Access to the rest of the shoreline is restricted by jagged rocks. The island has one shallow harbour with a launch ramp accessible only by small longboats.

How did the Pitcairn Islands make money?

The Pitcairn Islands issued their first stamp in 1940. These became very popular with stamp collectors, and their sale became the dominant source of revenue for the community. Profits went into a general fund which enabled the island to be mostly self-sufficient.

How to get to Pitcairn Islands?

Totegegie Airport in Mangareva can be reached by air from the French Polynesian capital Papeete. There is one 6.4-kilometre (4 mi) paved road leading up from Bounty Bay through Adamstown. The main modes of transport on Pitcairn Islands are by four-wheel drive quad bikes and on foot.

SolarGIS maps provide long-term averages of daily/yearly potential electricity production from a 1 kW Solar PV power plant. The assumed PV system configuration consisted of ground-based, free-standing structures, with ...

The Solar Hybrid Systems project in Adamstown, PITCAIRN ISLANDS, is working to supply and install a



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solar PV hybrid energy system for the benefit of Adamstown community and the government of Pitcairn to achieve their renewable energy objective. The system will enable the community to access a reliable, affordable and clean supply of energy and ...

Solargris" maps provide long-term averages of daily/yearly potential electricity production from a 1 kW Solar PV power plant. The assumed PV system configuration consisted of ground-based, free-standing structures, with crystalline-silicon PV modules mounted at a fixed position with optimum tilt to maximize yearly energy yield.

Renewable electricity here is the sum of hydropower, wind, solar, geothermal, modern biomass and wave and tidal power. Traditional biomass - the burning of charcoal, crop waste, and other organic matter - is not included. This can be an important source in lower-income settings.

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[Overview](#)[Economy](#)[History](#)[Geography](#)[Politics](#)[Military](#)[Demographics](#)[Culture](#)The fertile soil of the Pitcairn valleys, such as Isaac's Valley on the gentle slopes southeast of Adamstown, produces a wide variety of fruits, including bananas (Pitkern: plun), papaya (paw paws), pineapples, mangoes, watermelons, cantaloupes, passionfruit, breadfruit, coconuts, avocados, and citrus (including mandarin oranges, grapefruit, lemons and limes). Vegetables include sweet potatoes

Pitcairn Islands. Key Data. General information: Constitutional status: Overseas Territory of the United Kingdom; Land area: 47 sq km; Exclusive Economic Zone: 836,600; Population: 37; GDP per capita in 2009: CO2 eq emissions: Energy transition: Installed capacity in 2019: 358 kW; Electricity generation in 2020: Renewable energy generation ...

Apparently power on Pitcairn Island is 230/400 Volts, 50 Hz. That lends itself well to feeding single phase 230 Volt circuits from a 230/400 Volt generator. Bill

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Diesel generators provide the island with electricity 24/7. A wind power plant was planned to be installed to help reduce the high cost of power generation associated with the import of diesel, but was cancelled in 2013 after a project overrun of three years and a cost of \$250,000. [90]

Solar Power to replace fossil fuel fits well with Pitcairn's blue and green economic objectives. A large number



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of companies from around the world tendered for the project, all were of a high calibre and after much deliberation the project design contract was awarded to One Energy Island, a South Korean Company who have successfully ...

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