

## European Solar and Energy Storage Solutions

# French Polynesia tsunami solar



## Overview

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Is Tahiti a good place for solar energy?

This product could then be used for other coastal areas of Tahiti. The annual energy output of a single PV module is 256.7 kWh, which corresponds to 7 % of the annual consumption of a typical household in Tahiti. The capacity factor reaches 22.5 %, which makes Faaa a good site for harnessing solar resource.

How much energy does a PV module produce in Tahiti?

The annual energy output of a single PV module is 256.7 kWh, which corresponds to 7 % of the annual consumption of a typical household in Tahiti. The capacity factor reaches 22.5 %, which makes Faaa a good site for harnessing solar resource. Monthly variations of GHI and  $k_t$ . Annual GHI in kWh/m<sup>2</sup> retrieved from Global Solar Atlas.

Can a global solar atlas dataset be used in Tahiti?

The Global Solar Atlas satellite-derived dataset shows acceptable relative error when compared to Faaa in situ measurements. This product could then be used for other coastal areas of Tahiti. The annual energy output of a single PV module is 256.7 kWh, which corresponds to 7 % of the annual consumption of a typical household in Tahiti.

## French Polynesia sunami solar

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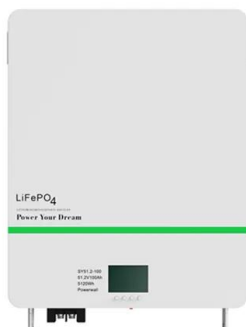


### Modelling the tsunami free oscillations in the Marquesas (French Polynesia)

**S U M M A R Y** The tsunami resonance inside basins (closed or semi-enclosed) depends on the period of the incident waves, reflection and energy dissipation, characteristics of the boundary and the geometry of the basin. When waves continuously enter the basin, they cause abnormal water level fluctuations and produced damage if their periods are close to the ...

### grid management in Tahiti, French Polynesia A tailored solar ...

A tailored solar power forecasting system for optimized grid management in Tahiti, French Polynesia © Steadysun S.A.S 2023 Damien Raynaud, Pierre Besson, Elena Escudero-Ramos, Guillaume Tremoy International Conference Energy & Meteorology, Padova 27-29 June, 2023

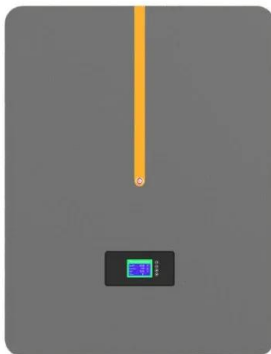


### ENERGY PROFILE French Polynesia

Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country's land area in each of these classes and the global distribution of land area across the classes (for comparison).

## Renewable energy in French Polynesia

Approximately 6% of primary energy in French Polynesia is generated from renewable energy sources. [1] Approximately 30% of electricity is generated renewably, primarily Hydroelectricity and solar power. [1] Renewable generation is concentrated on Tahiti, with other parts of French Polynesia almost entirely reliant on fossil fuels. [2]



## Leaked report raised fears of radioactive tsunami if ...

Moruroa is an atoll which forms part of the Tuamotu Archipelago in French Polynesia in the southern Pacific Ocean is located about 1,250 kilometres (780 miles) southeast of Tahiti. Mururoa, and its sister atoll ...

## (PDF) The 2010 and 2011 Tsunamis in French Polynesia:

...

The 2010 Chilean tsunami impacted French Polynesia with amplitudes unparalleled since the great 1960 event. Preliminary reports indicate run-ups of up to 4 m on Nuku Hiva, Marquesas. All coastal



## SUNami Solar Ltd.

SUNami Solar Ltd. offers a solution that provides off-grid electricity to marginalized areas. The solution facilitates access to renewable energy together with income generating appliances, and thereby contribute to creating new jobs, reduce

poverty and increase societal inclusion.



## Who are we

In 2016, Eyasys organized and hosted an entrepreneurship training program with the aim of identifying good business ideas and talented entrepreneurs. Three of the groups worked on solar energy as a business case, and Eyasys decided to support these groups to implement a pilot. That was the start of SUNami Solar Ltd., now a company of 15 employees.



## September Weather in French Polynesia French Polynesia

In French Polynesia during September average daily high temperatures are level around 84°F and the fraction of time spent overcast or mostly cloudy increases from 24% to 38%. The average daily incident shortwave solar energy in French Polynesia is gradually increasing during September, rising by 0.5 kWh, from 5.9 kWh to 6.4 kWh,

## (PDF) The 2010 and 2011 Tsunamis in French Polynesia: Operational

The 2010 and 2011 Tsunamis in French Polynesia: Operational Aspects and Field Surveys. Dominique Reymond. 2013, Pure and

Applied Geophysics. See full PDF download  
 Download PDF. Related papers. Rapid forecast of  
 tsunami wave heights from a database of pre-  
 computed simulations, and application during  
 the 2011 Tohoku tsunami in French Polynesia.



## What We Offer -- SUNami Solar

SUNami Solar Ltd. offers a solution that provides off-grid electricity to marginalized areas. The solution facilitates access to renewable energy together with income generating appliances, and thereby contribute to creating new jobs, reduce poverty and increase societal inclusion.

## Assessing solar resource and photovoltaic production in ...

Assessing solar resource and photovoltaic production in Tahiti from ground-based measurements Marania Hopuare<sup>1,\*</sup>, Lorène Lucas-Svay<sup>1</sup>, Pascal Ortega, Franck Lucas<sup>1</sup>, and Victoire Laurent<sup>2</sup> <sup>1</sup>University of French Polynesia, GEPASUD Laboratory <sup>2</sup>Direction Inter Régionale de Polynésie française, Météo France Abstract.



## Assessing solar resource and photovoltaic production in Tahiti ...

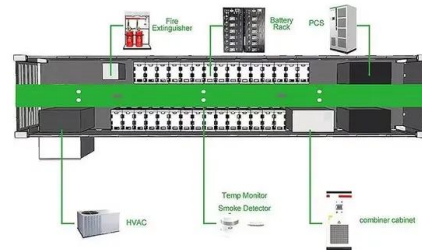
This study focuses on the solar resource available at Faaa, Tahiti (17.5°S, 149.5°W) thanks to 10 year-long solar irradiance time series. Faaa's global horizontal irradiance ranges

from 14 ...



## SMA installs French Polynesia's first integrated PV-plus-storage

SMA Solar Technology AG and its subsidiary SMA Sunbelt Energy GmbH have installed French Polynesia's first integrated PV-plus-storage project. The project features an output of more than 1MW on the island of Tetiaroa, with 60% of the island's electricity demand covered following the completion of the installation.



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