



How much electricity does French Polynesia use?

Hydroelectricity accounts for 23% of the electricity mix in French Polynesia. It is the first renewable energy source in French Polynesia with an installed capacity of 49.3 MW. Solar water heaters produce hot water using solar energy. In 2019, the electricity consumption saved is approximately 22 GWh, i.e. 3% of electricity consumption.

Does French Polynesia rely on hydrocarbons?

French Polynesia, like most island territories, is highly dependent on hydrocarbon imports. In 2019, 93.8% of energy consumed in the archipelagos came from imports of various petroleum-based fuels. The renewable energy penetration rate in power generation stood at 28.78% in 2019. This figure has remained stable over the last five years.

Is biomass a source of electricity in French Polynesia?

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. French Polynesia: How much of the country's electricity comes from nuclear power? Nuclear power - alongside renewables - is a low-carbon source of electricity.

What is French Polynesia's energy transition plan?

French Polynesia's energy transition plan has three main objectives: Change the energy model, by gradually replacing the use of fossil fuels with renewable energies in all activities

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/m²; retrieved from Global Solar Atlas.

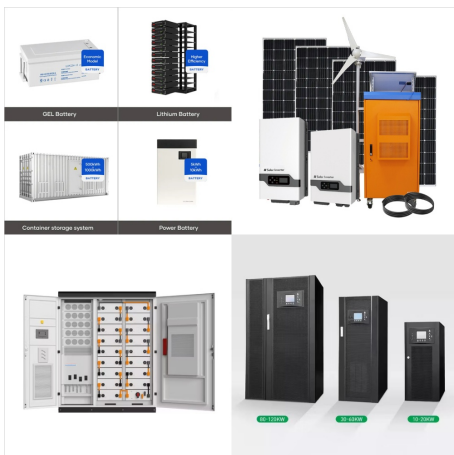
Is Tahiti a good place for solar energy?

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.

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French Polynesia: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on decarbonizing our energy mix. This page provides the data for your chosen country across all of the key metrics on this topic.



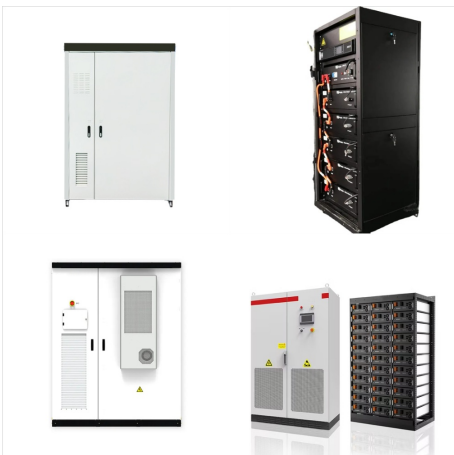
Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the proportion of a country's land area in each of these classes and the global distribution of land area across the classes (for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



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]



In French Polynesia, mainly crude oil and its derivatives, hydraulic power and solar radiation PEC is expressed in tonnes of oil equivalent (toe), unit that allows the different energies to be compared in relation to their intrinsic characteristics.



AFD and the Polynesian authorities have jointly defined a support program to assist French Polynesia with its energy transition. By 2030, the renewable energy penetration rate in power generation will reach about 75%.



Primary energy trade 2015 2020 Imports (TJ) 12 270 11 917 Exports (TJ) 0 0 Net trade (TJ) - 12 270 - 11 917 Imports (% of supply) 96 95 Exports (% of production) 0 0 Energy self-sufficiency (%) 7 5
French Polynesia COUNTRY INDICATORS AND SDGS TOTAL ENERGY SUPPLY (TES) Total energy supply in 2020 Renewable energy supply in 2020 95% 5% Oil Gas



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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Solar energy assessment and forecasting in insular regions: the Tahiti case study Guillaume Tremoy
More information on the tahitian power grid and all of our forecasting services delivered there for >6 years can be found on the