

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.

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.

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.

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, over the course of the month. ... We further caution that our travel scores are only as good as the data that underpin them, that weather conditions at any given location and time are ...

May Weather in Tahiti French Polynesia. Daily high temperatures are around 86°F, rarely falling below

83°F or exceeding 89°F.. Daily low temperatures decrease by 2°F, from 76°F to 74°F, rarely falling below 71°F or exceeding 78°F.. For reference, on March 25, the hottest day of the year, temperatures in Tahiti typically range from 77°F to 88°F, while on August 1, the coldest ...

Database; IRENA Global Atlas; and World Bank Global Solar Atlas and Global Wind Atlas. Additional notes: Capacity per capita and public investments SDGs only apply to developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all

April Weather in Tahiti French Polynesia. Daily high temperatures are around 87°F, rarely falling below 84°F or exceeding 90°F.. Daily low temperatures are around 76°F, rarely falling below 73°F or exceeding 79°F.. For reference, on March 25, the hottest day of the year, temperatures in Tahiti typically range from 77°F to 88°F, while on August 1, the coldest day of the year, they ...

On the other hand, French Polynesia benefits from a high amount of solar radiation-up to 5.8 kWh/m² /day (vs. 3.4 kWh/m² /day in Paris)-that can be converted into electricity by...

December Weather in Tahiti French Polynesia. Daily high temperatures are around 86°F, rarely falling below 83°F or exceeding 89°F.. Daily low temperatures are around 76°F, rarely falling below 73°F or exceeding 79°F.. For reference, on March 25, the hottest day of the year, temperatures in Tahiti typically range from 77°F to 88°F, while on August 1, the coldest day of ...

Specifically, around 26% of the electricity is generated from hydropower, while about 7% comes from solar energy. This indicates a significant dependency on fossil fuels, contributing to climate change and air pollution, though there is a notable commitment to relatively sustainable sources like hydropower and solar energy.

Figure 1: Primary energy consumption in French Polynesia in 2019 Primary Energy Consumption (PEC) represents all unprocessed, directly exploited or imported energy products. 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

The average daily incident shortwave solar energy in French Polynesia is gradually increasing during August, rising by 0.8 kWh, from 5.0 kWh to 5.8 kWh, over the course of the month. ... We further caution that our travel scores are only as good as the data that underpin them, that weather conditions at any given location and time are ...

October Weather in Tahiti French Polynesia. Daily high temperatures are around 85°F, rarely falling

below 82°F or exceeding 87°F.. Daily low temperatures are around 74°F, rarely falling below 71°F or exceeding 77°F.. For reference, on March 25, the hottest day of the year, temperatures in Tahiti typically range from 77°F to 88°F, while on August 1, the coldest day of ...

The average daily incident shortwave solar energy in French Polynesia is gradually decreasing during the summer, falling by 0.7 kWh, from 6.2 kWh to 5.5 kWh, over the course of the season. ... We further caution that our travel scores are only as good as the data that underpin them, that weather conditions at any given location and time are ...

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]

January Weather in Tahiti French Polynesia. Daily high temperatures are around 87°F, rarely falling below 83°F or exceeding 89°F.. Daily low temperatures are around 76°F, rarely falling below 74°F or exceeding 79°F.. For reference, on March 25, the hottest day of the year, temperatures in Tahiti typically range from 77°F to 88°F, while on August 1, the coldest day of ...

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%.

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Renewable energy here is the sum of hydropower, wind, solar, geothermal, modern biomass and wave and tidal energy. Traditional biomass - the burning of charcoal, crop waste, and other organic matter - is not included.

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