# French Polynesia use solar energy

How much electricity does French Polynesia use?
Hydroelectricity accounts for 23% of the electricity mix in French Polynesia. It is the irst renewable energy source in French Polynesia with an installed capacity of 49.3 MW. Solar water heaters produce hot water using so- lar energy. In 2019, the electricity consumption sa- ved 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

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/m² retrieved from Global Solar Atlas.

As of 2022, the electricity consumption in French Polynesia predominantly relies on fossil fuels, accounting for over two-thirds or approximately 67% of the total electricity generation. The remaining portion, nearly a third, comes from low-carbon or clean sources. Specifically, around 26% of the electricity is generated from hydropower, while about 7% comes from solar energy.

April Weather in Papeete French Polynesia. Daily high temperatures are around 87°F, rarely falling

below 84°F or exceeding 90°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the length of the day, the elevation of ...

June Weather in Tahiti French Polynesia. Daily high temperatures are around 85°F, rarely falling below 82°F or exceeding 87°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the length of the day, the elevation of ...

The average daily incident shortwave solar energy in French Polynesia is essentially constant during May, remaining within 0.1 kWh of 4.5 kWh throughout. Average Daily Incident Shortwave Solar Energy in May in French Polynesia Fall Link. Download. Compare. Averages: J ...

February Weather in Papeete French Polynesia. Daily high temperatures are around 87°F, rarely falling below 84°F or exceeding 90°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the length of the day, the elevation ...

February Weather in Bora-Bora French Polynesia. Daily high temperatures are around 87°F, rarely falling below 85°F or exceeding 89°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the length of the day, the ...

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 ...

In Papeete, French Polynesia (latitude: -17.5324608, longitude: -149.5677151), solar photovoltaic (PV) generation is highly suitable due to the abundant and consistent sunlight throughout most of the year. The average daily energy production per kW of installed solar capacity varies by season, with 7.16 kWh in Summer, 5.81 kWh in Autumn, 4.77 kWh in Winter, and 6.85 kWh in Spring.

The average daily incident shortwave solar energy in French Polynesia is essentially constant during January, remaining within 0.1 kWh of 5.7 kWh throughout. Average Daily Incident Shortwave Solar Energy in January in French Polynesia Summer Link. Download. Compare. Averages: Jan F M A M J J A S O N D.

The average daily incident shortwave solar energy in French Polynesia is gradually increasing during July, rising by 0.5 kWh, from 4.4 kWh to 5.0 kWh, over the course of the month. Average Daily Incident Shortwave Solar Energy in July in French ...

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The climate in French Polynesia is hot, oppressive, windy, and partly cloudy. Over the course of the year, the temperature typically varies from 72°F to 88°F and is rarely below 68°F or above 90°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full ...

March Weather in Papeete French Polynesia. Daily high temperatures are around 88°F, rarely falling below 85°F or exceeding 90°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the length of the day, the elevation of ...

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] Wind power is not used, with only two small ...

August Weather in Tahiti French Polynesia. Daily high temperatures are around 83°F, rarely falling below 81°F or exceeding 86°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the length of the day, the elevation of ...

May Weather in Tahiti French Polynesia. Daily high temperatures are around 86°F, rarely falling below 83°F or exceeding 89°F. ... This section discusses the total daily incident shortwave solar energy reaching the surface of the ground over a wide area, taking full account of seasonal variations in the length of the day, the elevation of the ...

In French Polynesia during summer average daily high temperatures are level around 87°F and it is overcast or mostly cloudy about 76% of the time. ... 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, ...

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