

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.

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.

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 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

What is PEC in French Polynesia?

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. litres of hydrocarbons were imported in 2019 in French Polynesia. is the dependency rate.

September Weather in Tahiti French Polynesia. Daily high temperatures are around 84°F, rarely falling below 81°F or exceeding 86°F. Daily low temperatures are around 73°F, rarely falling below 69°F or exceeding 76°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

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We are mainly active in French Polynesia through our retail and renewable electricity generation activities. We lead several community outreach initiatives in the country. Want to work in the energy industry? We represent more than 500 production, commercial and support professions in ...

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 Tahiti 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 ...

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 photovoltaic (PV ...

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The Brando in French Polynesia is singularly focused on one mission: zero carbon. See how we stay sustainable and work in partnership with this incredible place. ... Renewable Energy. The resort features two varieties of solar panels. ...

In order to achieve France's goal of carbon neutrality by 2050, the French Polynesian administration has set the objective of producing 100% of the local electricity requirements from renewable energy resources. To this end, we present the wind characteristics at six selected locations in Tahiti. Surface wind observations from 2008 to 2020 obtained from ...

February 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 77°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 ...

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 ...

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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Summer Weather in Tahiti French Polynesia. Daily high temperatures are around 87°F, rarely falling below 83°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 ...

September Weather in Papeete French Polynesia. Daily high temperatures are around 84°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 ...

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. Average Daily Incident Shortwave Solar Energy in September in ...

solar energy arriving at the surface per unit time and unit area, in W.m⁻² while irradiation refers to the amount of solar energy arriving at the surface during a given period of time, in J.m⁻². Hourly totals of global horizontal irradiation (GHI) in J.cm⁻² over the 2008-2017 period have been considered in this study. Reference time is the

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 Tahiti is increasing during the winter, rising by 1.4 kWh, from 4.4 kWh to 5.8 kWh, over the course of the season. The lowest average daily incident shortwave solar energy during the winter is 4.4 kWh on June 18.

November Weather in Papeete French Polynesia. Daily high temperatures are around 86°F, rarely falling below 83°F or exceeding 88°F. Daily low temperatures are around 75°F, rarely falling below 72°F or exceeding 78°F. For reference, on March 23, the hottest day of the year, temperatures in Papeete typically range from 77°F to 88°F, while on August 1, the coldest day ...

SMA Solar Technology AG and its subsidiary SMA Sunbelt Energy GmbH have installed French Polynesia's first integrated PV-plus-storage project. ... 60% of the electricity supply now comes from ...

The average daily incident shortwave solar energy in French Polynesia is essentially constant during February, remaining within 0.1 kWh of 5.5 kWh throughout. Average Daily Incident Shortwave Solar Energy in February in French Polynesia Summer Link. Download. Compare. Averages: J Feb M A M J J A S O N D.

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.

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 ...

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.

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%.

The Brando in French Polynesia is singularly focused on one mission: zero carbon. See how we stay sustainable and work in partnership with this incredible place. ... Renewable Energy. The resort features two varieties of solar panels. Positioned on Tetiaroa's airstrip, over 4,700 photovoltaic panels meet 60% of the energy requirements.

The average daily incident shortwave solar energy in French Polynesia is gradually decreasing during April, falling by 0.6 kWh, from 5.3 kWh to 4.6 kWh, over the course of the month. Average Daily Incident Shortwave Solar Energy in April in French Polynesia Fall Link. Download.

Investigating Wind Energy Potential in Tahiti, French Polynesia Marania Hopuare 1, *, Tao Manni 2, Victoire Laurent 3 and Keitapu Maamaatuaiahutapu 1 1 Geodesy Observatory of Tahiti, University ...

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 ...



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July Weather in Tahiti French Polynesia. Daily high temperatures are around 84°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 ...

A wet day is one with at least 0.04 inches of liquid or liquid-equivalent precipitation. The chance of wet days in Rangiroa varies significantly throughout the year. The wetter season lasts 5.0 months, from October 22 to March 24, with a greater than 27% chance of a given day being a wet day. The month with the most wet days in Rangiroa is December, with an average of 13.7 days with ...

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