



# All weather solar panels in French Polynesia

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/m<sup>2</sup>; retrieved from Global Solar Atlas.

Does Tahiti have a solar resource?

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.

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.

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.

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 ...

January Weather in Tahiti French Polynesia. Daily high temperatures are around 87°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 ...



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July Weather in Bora-Bora French Polynesia. Daily high temperatures are around 83°F, rarely falling below 81°F or exceeding 85°F. Daily low temperatures are around 76°F, rarely falling below 73°F or exceeding 79°F. For reference, on March 23, the hottest day of the year, temperatures in Bora-Bora typically range from 79°F to 87°F, while on August 16, the coldest ...

Over the course of May in French Polynesia, the length of the day is gradually decreasing on the start to the end of the month, the length of the day decreases by 16 minutes, implying an average daily decrease of 31 seconds, and weekly decrease of 3 minutes, 38 seconds. The shortest day of the month is May 31, with 11 hours, 18 minutes of daylight and the longest day ...

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 Papeete 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 23, the hottest day of the year, temperatures in Papeete typically range from 77°F to 88°F, while on August 1, the ...

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, ... This report illustrates the typical weather in French Polynesia, based on a statistical analysis of historical hourly weather reports and model reconstructions from January 1, 1980 to ...

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 ...

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, ... This report illustrates the typical weather in French Polynesia, based on a statistical analysis of historical hourly weather reports and model reconstructions from January 1, 1980 to ...

June 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 73°F, rarely falling below 69°F or exceeding 76°F. For reference, on March 25, the hottest day of the year, temperatures in



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Tahiti typically range from 77°F to 88°F, while on August 1, the coldest day of the year, they ...

As electricity prices continue to soar in France - up 60% in four years - more people are turning towards solar panel kits, which promise to help users save on energy costs and installation prices. The estimated extra cost of electricity in 2024, compared to 2020, is EUR540 per household per year.

The month of June in French Polynesia experiences rapidly decreasing cloud cover, with the percentage of time that the sky is overcast or mostly cloudy decreasing from 41% to 28%. The clearest day of the month is June 30, with clear, mostly clear, or partly cloudy conditions 72% of the time. For reference, on December 29, the cloudiest day of the year, the chance of ...

July 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 of ...

September 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 ...

February Weather in Papeete 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 74°F or exceeding 79°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 ...

Climate and Average Weather Year Round in Tahiti French Polynesia. The climate in Tahiti 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. Based on the beach/pool score, the best time of year to visit Tahiti for hot-weather activities is from late May to early October.

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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, ... This report illustrates the typical weather in French Polynesia, based on a statistical analysis of historical hourly weather reports and model reconstructions from January 1, 1980 to ...



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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.

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 ...

April Weather in Anau French Polynesia. Daily high temperatures are around 87°F, rarely falling below 84°F or exceeding 89°F. Daily low temperatures are around 79°F, rarely falling below 76°F or exceeding 81°F. For reference, on March 21, the hottest day of the year, temperatures in Anau typically range from 79°F to 87°F, while on August 12, the coldest day of the year, they range ...

The average daily incident shortwave solar energy in French Polynesia 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.

Seasonal solar PV output for Latitude: -17.5324608, Longitude: -149.5677151 (Papeete, French Polynesia), based on our analysis of 8760 hourly intervals of solar and meteorological data (one whole year) retrieved for that set of ...

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 ... This report illustrates the typical weather in French Polynesia, based on a statistical analysis of historical hourly weather reports and model reconstructions from January 1, 1980 to December 31 ...

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 ...

March 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 elevation ...



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