

## Solar Energy South Africa

# Willis energy systems French Polynesia



## Overview

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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

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### Supporting French Polynesia's energy transition

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### ENERGY PROFILE French Polynesia

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

**TAX FREE**

**Product Model**  
 HJ-ESS-215A(100KW/215KWh)  
 HJ-ESS-115A(50KW/115KWh)

**Dimensions**  
 1600\*1280\*2200mm  
 1600\*1200\*2000mm

**Rated Battery Capacity**  
 215KWH/115KWH

**Battery Cooling Method**  
 Air Cooled/Liquid Cooled



### Energy performance assessment of Sea Water Air

To put this in terms of carbon emissions avoided, conventional unitary split systems running in similar hotels on neighboring islands in French Polynesia (COP around 3.5) emit some 860 Tons/year compared to the estimated 225 Tons/year emitted (approximated with the emissions factor of French Polynesia in 2019) operating the Tetiaroa SWAC.

## Energy performance assessment of Sea Water Air ...

Kanhan Sanjivy, Olivier Marc Marc, Neil Davies, Franck Lucas. Energy performance assessment of Sea Water Air Conditioning (SWAC) as a solution toward net zero carbon emissions: A case study in French Polynesia. Energy Reports, 2023, 9, pp.437 - 446. [?10.1016/j.egy.2022.11.201?. ?hal-03893523?](https://doi.org/10.1016/j.egy.2022.11.201)



## The Sea Water Air Conditioning in French Polynesia

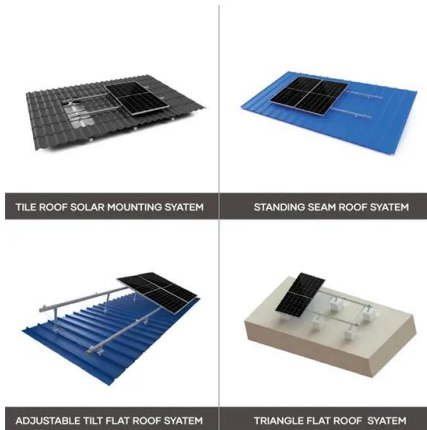
The Sea Water Air Conditioning in French Polynesia Date: November 01, 2013 at 10:27 GMT. Pacific Beachcomber Company is a pioneer in the application of renewable energies. The first private complex to be air conditioned by a Seawater air conditioning unit was designed for the Intercontinental Resort Thalasso & Spa of Bora Bora.

## Investigating Wind Energy Potential in Tahiti, French Polynesia

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## Emission Factor: Electricity supplied from grid , Energy , Electricity



Emission intensity of electricity supplied from grid. Retrieved from the file Base Carbone v23.3 published by ADEME. For detailed guidance on the application and interpretation of these emission factors please refer to the documentation provided by the source.

## French Polynesia - Food Systems Dashboard

Countries with lower shares of dietary energy from staple foods may have higher nutritional quality in their food supplies. We've identified the following policies and actions that might address issues with the food system of French Polynesia. Action. Deliver agricultural extension programmes, infrastructure and education to support



## Investigating Wind Energy Potential in Tahiti, French Polynesia

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 ...

## Energy performance assessment of Sea Water Air Conditioning ...

One reason for this failure to scale might be the absence of experimental data detailing energy performance of SWAC systems in real-world, commercial settings. Here is presented the performance of an existing 2.4 MW SWAC system, operated by The Brando resort on the atoll of Tetiaroa in French Polynesia.

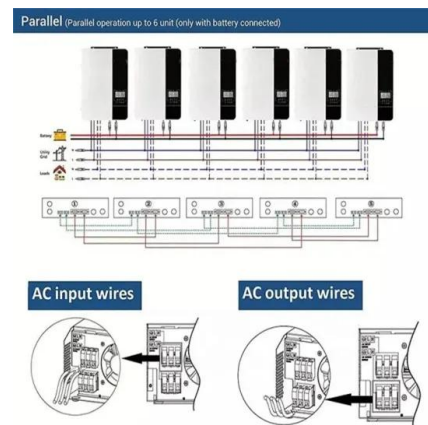


## The Brando In French Polynesia , Stewardship , Sustainable Resort

Inaugurated in 2014, the Sea Water Air Conditioning (SWAC) system taps into the ocean's depths to cool the resort's structures with minimal energy consumption. Ocean water is siphoned ashore by the natural pressure of the deep sea, flowing through a titanium heat exchanger before it is returned to the ocean, causing no harm to the environment.

## Investigating Wind Energy Potential in Tahiti, French ...

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



## [French Polynesia](#)

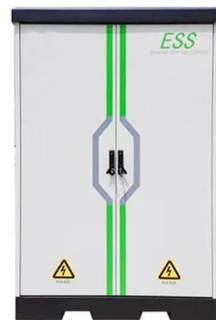
For a safer, healthier and fairer world, WHO presents 2020-2021 progress towards the triple billion targets, outcomes and outputs by analysing the achievements and challenges to achieving them, including reports from the ground to exemplify the Organization's work in

driving health impacts at the country level, where it matters most. The WHO Secretariat is reporting on its ...



## News on business and economy in French Polynesia

Gondia, India, Oct. 29, 2024 (GLOBE NEWSWIRE)  
 -- As per our research, In 2023, the Battery Energy Storage Systems (BESS) market was valued at USD 21,473.22 Million and is expected to reach USD 186,623.45 Million by 2032 at the CAGR of 23.2% during 2024- ...



## Energy performance assessment of Sea Water Air Conditioning

To put this in terms of carbon emissions avoided, conventional unitary split systems running in similar hotels on neighboring islands in French Polynesia (COP around 3.5) emit some 860 Tons/year compared to the estimated 225 Tons/year emitted (approximated with the emissions factor of French Polynesia in 2019) operating the Tetiaroa SWAC.

## McDermott wins sustainable aviation fuel facilities contract in UK

The facility will use either Biogas-to-Liquid or Power-to-Liquid technology, contingent on the

feedstock. Credit: Terelyuk/Shutterstock. McDermott has secured a master services agreement with Willis Sustainable Fuels (UK) for sustainable aviation fuel (SAF) facilities in the UK. The company will be



## **(PDF) Energy Performance Assessment of Sea Water Air**

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## **SFCE Signs Cooperative Agreement with French Polynesia to ...**

SHANGHAI, June 10, 2015 /PRNewswire/ -- Shunfeng International Clean Energy (SFCE) announced today that it has signed a cooperative agreement with the French Polynesian government to deploy its



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Low energy consumption, long service life and quiet operation make this an environmentally-friendly, cost-effective product. OZMIX(TM) SYSTEM. Provides 20% fresher water when used



with the appropriate amount of chlorine, compared to traditional systems. Ensures perfect water clarity.

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