

# **French Guiana clear energy**





## Overview

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In 2021, French Guiana's electricity consumption demonstrated a strong emphasis on low-carbon sources, with about 70% of its electricity generated from clean energy.



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### ENERGY PROFILE French Guiana

developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of the Harmonised System (HS). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided

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### Renewable Energy in French Guiana: Prospects towards a ...

According to the French Energy Transition for Green Growth Act, the main objective is to develop renewable and clean energy in order to achieve energy self-sufficiency for the entire territory. Due to its favorable location offering a wide range of potential renewable sources, French Guiana is a good candidate for developing efficient and

### Project

CEOG is an innovative multi-megawatt power plant designed to produce reliable and clean electricity. CEOG will provide cheaper and firm



power all year long, day and night, to 10 000 homes in Western Guiana. Combining a photovoltaic ...

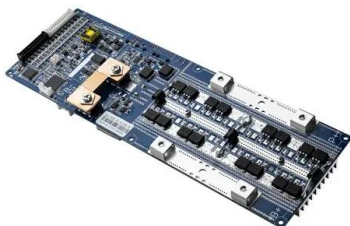


## Project

CEOG is an innovative multi-megawatt power plant designed to produce reliable and clean electricity. CEOG will provide cheaper and firm power all year long, day and night, to 10 000 homes in Western Guiana. Combining a photovoltaic plant and mass storage of energy in the form of hydrogen, CEOG is the alternative to a classic diesel power plant.

## (PDF) Renewable Energy in French Guiana: Prospects towards a

This paper aims to make an inventory of the energy situation in French Guiana, identify the challenges restricting the widespread use of renewable energy and propose some recommendations



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## Electricity in French Guiana in 2021

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## BENEFITS FOR FRENCH GUIANA

CEOG powerplant will produce reliable and quality electricity, injected into the Guiana electricity grid, 24/24, 365 day/year. Located west of French Guiana, the plant will increase the electricity ...



## Renewable energy in French Guiana: Prospects towards a ...

The lack of access to energy in the inland areas is a key issue at the heart of French Guiana's pluriannual energy programming. With an electrification rate of dwellings four times lower



## Centrale Electrique de l'Ouest Guyanais (CEOG) Hydrogen

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## Electricity in French Guiana in 2021

In 2021, French Guiana's electricity consumption demonstrated a strong emphasis on low-carbon sources, with about 70% of its electricity generated from clean energy. This includes more than half of its electricity derived from hydropower, which makes up the backbone of the region's low-carbon generation.



## Centrale Electrique de l'Ouest Guyanais (CEOG) Hydrogen

The Centrale Electrique de l'Ouest Guyanais (CEOG) project under construction in French Guiana, will be the world's biggest hydrogen-based renewable energy storage facility, upon completion. Also called the Western French Guiana power plant, the project includes a 55MW photovoltaic (PV) solar park and a 128MWh hydrogen-based energy storage



## **BENEFITS FOR FRENCH GUIANA**

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## **Renewable energy in French Guiana: Prospects towards a ...**

French Guiana has its own pluriannual energy programming. With an objective of energy autonomy set on the 2030 horizon, they have to accelerate the large-scale clean energy

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