

Can Reunion Island achieve energy autonomy by 2030?

Reunion Island, a French overseas region located in the Indian Ocean, is facing a three-fold challenge combining demographics, the environment and energy. To limit its heavy dependence on imported fossil fuels, Reunion Island aims to achieve energy autonomy by 2030 based on greater energy efficiency and renewable energy alternatives.

What is green energy revolution Reunion Island?

Until recently, Reunion Island had implemented the GERRI project, Green Energy Revolution Reunion Island. This economic and social development program centered on the sustainable development of Reunion Island and resulted from the "Grenelle Environment" French environment roundtables.

Does Reunion Island use fossil fuels?

Whereas in the 1980s all of the energy produced on Reunion Island came from renewable hydroelectricity, the island has gradually become dependent on imported fossil fuels.

Is Reunion Island a renewable resource?

Hydroelectricity is the island's main renewable resource. It accounted for 17,2% of its total electricity production in 2015 (133,6MW of installed capacity), spread over six sites in the eastern part of the island. An additional capacity of 50MW should be deployed by 2030. Reunion Island's biomass potential is considerable.

Why is La Reunion a World Heritage Site?

Declared a UNESCO world heritage site in 2010, the French overseas region of La Reunion - Island - located between Mauritius and Madagascar in the Indian Ocean, is facing a threefold challenge - involving demographics, the environment and energy. From 1970 to 2012, the island's population nearly doubled from 450,000 to 837,900 inhabitants.

Can geothermal energy be developed on Reunion Island?

Geothermal energy also presents significant potential for development, with an installed capacity of 30MW; however, the main problem for this resource on Reunion Island is its location in a protected natural area.

Due to the island's location, solar energy is an abundant energy resource. Over the last ten years, a large increase of photovoltaic (PV) installations has been observed. ... This analysis is conducted with the bottom-up energy model TIMES-Reunion [16], [17], [18]. The paper is organized as follows: Section 2 describes the model used for the ...

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Fusion can potentially provide a safe, abundant, zero-carbon-emitting source of reliable primary energy. To reach the point where fusion can reliably produce electricity and other forms of energy for commercial, industrial, and residential use, scientists and engineers must tackle a number of remaining scientific and technological challenges.

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energy and the development of gasification technologies. Due to its location, solar energy is an abundant energy resource. Over the last ten years, an exponential increase of photovoltaic ...

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For example, the overseas French Region of La R  union (or Reunion Island) is looking for energy autonomy by 2030, with a medium objective of generating more than 50% of ...

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Reunion Island is endowed with many types of renewable energy sources (RES) such as solar, wind, geothermal, sea energy (ocean thermal energy conversion and wave ...

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To limit its heavy dependence on imported fossil fuels, Reunion Island aims to achieve electricity autonomy by 2030 based on greater energy efficiency and renewable ...

Reunion Island is facing the challenge of saying goodbye to imported fossil fuels and reaching energy self-sufficiency by 2030, a goal defined in the region's Multiannual Energy Program (PPE). In 2019, the French ...

Due to its location, solar energy is an abundant energy resource. Over the last ten years, an exponential increase of photovoltaic (PV) installations has been observed, mainly with stand-alone ...

The metal is abundant in the earth, but it takes a lot of energy to separate aluminum molecules from other materials. So for much of human history, it was considered a rare metal.

Due to its location, solar energy is an abundant energy resource in Reunion (cf. Fig. 3). Essentially most RES are indirect solar energy forms such as biomass, hydro, wind, ...

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Reunion Island is facing the challenge of saying goodbye to imported fossil fuels and reaching energy self-sufficiency by 2030, a goal defined in the region's Multiannual Energy Program (PPE). In 2019, the French Environment and Energy Management Agency ADEME has delivered the latest report on the island's development and future scenarios, which will allow ...

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Solar is the most abundant energy resource on planet Earth. Even after accounting for weather variation, the average solar power received by the continents alone peaks at 23 million gigawatts.

Renewable Energy: Solar power leads the charge with a projected 34% growth in 2024, followed by an additional 31% in 2025 as capacity expands. Natural Gas : Demand increases by 3% in 2024 but slows in 2025 due to rising prices.

In most islands regions, energy needs are still heavily dependent on imported fossil fuels even though domestic renewable energy sources can meet their energy needs (Dornan, 2015; Gorrie, 2012; Levanti, 2008). This is the case for example for Fiji, Mauritius or Vanuatu, with their abundant solar, geothermal, wind and bioenergy resources (IRENA, 2013).

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So far, only very small islands such as El Hierro in the Canary Islands have achieved complete energy self-sufficiency, says Dominique Grondin, who studies energy engineering at the University...

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