

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.

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.

How did Reunion Island get its energy?

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

Can Reunion Island make its electricity 100% renewable?

Reunion Island's plan for making its electricity system 100% renewable involved a multi-fold process. This ambition was established in the law "Grenelle 1" No. 2009-967, whereby the French Ministry of Ecology mandated in April 2009 that all new constructions in overseas departments must install solar water heating.

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.

Does Reunion Island use fossil fuels?

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Akuo is committed to putting all its expertise and resources into supporting the island's energy transition and meeting the ambitious goals of the multi-year energy plan, i.e., an installed capacity of 500 MW solar and 92 MW wind by 2028, versus 206 MW and 17 MW respectively in 2020.

Based on the analysis of a 100% renewable power system applied to Reunion Island in 2030, this paper aims to discuss how the island can first envisage the future of its power system to assure supply security, and, in the same time, participate in the greening of the energy system as a part of the ambition to uphold and advance the Paris Agreement.

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 energy), biomass and hydropower. However, reaching this 100% renewable electricity mix will involve many structural changes in electricity production in a short time-frame.

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Owing to its rich natural environment, this unique European territory in the Indian Ocean has exceptional potential for renewable power generation. 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 energy), biomass and hydropower.

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