# S energy solar RÃ©union

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.

How can Reunion Island achieve energy autonomy?
Reunion Island aims to achieve energy autonomy and a 100% renewable electricity mix by 2030. Without policy support,the share of renewables remains at the 2008 reference level. The development of biomass,particularly energy cane,is economically interesting. Solar and marine energy need political and/or economic support to be developed.

Is Reunion Island a renewable resource?
Hydroelectricityis 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.

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.

Will switching to renewables solve Réunion's self-sufficiency problem?
Although laudable,switching to renewables will notsolve the self-sufficiency problem. The renewable sources Réunion uses to generate electricity will still be mainly imported from abroad. "Forests will be cut in Canada to put in our furnaces in Réunion island," says Mathieu David,who studies mechanics and energy at the University of La Réunion.

Can a sodium-sulfur battery be used on Reunion Island?
The sodium-sulfur battery Nas,with a capacity of 1MW was installed in St. Andrew,a city in the northeast of Reunion Island. This experiment will enable to smooth the load curve and slightly relax the 30% network rule . The development of biomass on Reunion Island is economically more viable.

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.

EDF Renewables is strengthening its presence on the island of Reunion with the commissioning of the

Rivière des Galets solar power plant (4.6 MW). Inaugurated on October 27, 2023, this is the fourth EDF Renewables installation on the island. A new solar power plant now sits below the dizzying reliefs of Bas Mafate, on the island of Reunion.

Solar thermal and photovoltaic products have boomed since 2000 in Reunion"s renewable energy market. The road map for RES identifies several other technologies in order to take up demonstration activities and research development. The final aim is to increase the share of RES in Reunion"s energy mix.

Fuel imports traditionally make the energy production on an island more expensive, while Solar PV and bagasse offer cost-effective alternatives for Reunion Island. The abundant hydro electric resources have historically been lowering Reunions electricity production costs compared to other NIZs, Martinique and Guadeloupe.

Solar energy policies in La Reunion A carbon intensive island... With a strong regional ambition for the Energy Transition : the Multi Annual Energy Plan (PPE) adopted in 2022... The key objective of this plan is to reach 100% renewable ...

Diverse renewable energies have been installed in Reunion island: solar, hydro, wind, marine and biomass. The use of variable renewable energy forecasting combined with battery storage for industrial-scale ...

The solar capacity has increased by 44% between 2011 and 2015 and now represents 8.5% of the electricity mix, with a production of 245 GWh. It is interesting to underline the fact that Reunion Island has already exceeded the 30% limit rate ( Ministerial Decree of 23 April 2008 ) of RES penetration into its electricity grid.

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Given the varied potential of renewable resources that Reunion Island could deployed, such as wind, solar, biomass, ocean or geothermal energy, we analyze the impact on the electricity system of different focus expressing specific supports.

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Diverse renewable energies have been installed in Reunion island: solar, hydro, wind, marine and biomass. The use of variable renewable energy forecasting combined with battery storage for industrial-scale installations has been proven to ease the grid integration of these renewable energy sources.

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