RÃ©union solar power cost in the

At the end of 2010 in Reunion, PV systems represented approximately a power of 80 MW p for an electricity production of 60 GWh, [26]. Over the last 5 years, an exponential increase of the PV installations has been observed.

The high penetration of RES in the power mix raises key issues: What will be the cost of electricity autonomy by 2030? How will the significant deployment of intermittent energies affect the reliability of the electrical system?

Afin de soutenir le recours aux énergies renouvelables, la Région Réunion a mis en place le chèque photovoltaïque, allant jusqu"à 3 000EUR pour une installation sans batterie et jusqu"à 6 000EUR pour un système photovoltaïque avec batterie.

More precisely, the cost of producing a megawatt of electricity is around 200 euros in Reunion Island and, the sales price being the same here as in France, electricity is sold at half price.

Reunion aims to achieve energy self-sufficiency based only on its renewable resources and become a "zero-net energy" island by 2030, with 27% from solar electricity [8, 9]. In 2018, 36.5% of ...

As the leading electricity supplier in Réunion Island, Albioma produces 46 % of the energy available in the grid by operating two thermal biomass power plants, a bioethanol combustion turbine and a large photovoltaic fleet.

Micro-grid systems have been installed in the most remote areas, such as Cirque de Mafate, which is home to 300 families and can only be reached on foot or by helicopter. Solar thermal power is being developed for domestic use, with 135,000 solar water heaters already installed on the island, or one in almost every second home.

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.

The transition scenarios show that by 2030, electricity from biomass advantageously replaces electricity from coal and represents slightly more than 50% of electricity generation. Solar and wave/ocean energies are not the most cost effective option, but wind energy tends to disappear in the face of these energies more politically supported.

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.

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