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Title: Uruguay solar Power Plant System

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Does Uruguay have solar power?

Legislative support for solar power has existed since 2013 and the total installed capacity of distributed solar generation reached 270 MW in 2022. Uruguay receives an average 1,700 KW per square meter of sunlight a year, on a par with Mediterranean countries although solar represents only a fraction of the country's total electricity production.

What are PV plant capacity factors in Uruguay?

The study finds an average capacity factor of 22.4% over the five-year period, with monthly variations ranging from 14.1% to 28.1%. This work provides the first precise assessment of PV plant capacity factors in Uruguay, providing valuable insights for grid management and future solar energy investments.

Where are the large-scale PV plants installed in Uruguay?

DATA The environmental and operational data of the large-scale PV plants installed in Uruguay are public and available on the ADME1 website. The PV plant known as "La Jacinta", located in the northwest of Uruguay (latitude -31.43°S and longitude -57.91°W), is considered for this study as it is one of the largest PV plants in the country.

How long does a solar map last in Uruguay?

The 4-year average CF calculated by the authors was 17.6%. Performing the same calculation as in the two previous works, but with the data from this work, the CF obtained is 17.4%. Although the similarity is remarkable, Uruguay's solar map is based on 17 years of satellite estimates, while this study averages only 5 years.

The first stage of the energy transition positioned Uruguay at the forefront of renewable energies, placing it as the seventh country in the world with the ...

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