

# **Solar power satellite factory in Uruguay**





## Overview

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How many solar farms are in Uruguay?

Uruguay generates solar-powered energy from 13 solar power plants across the country. In total, these solar power plants has a capacity of 225.0 MW. How much electricity is generated from solar farms each year?

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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  $-31.43^{\circ}\text{S}$  and longitude  $-57.91^{\circ}\text{W}$ ), is considered for this study as it is one of the largest PV plants in the country.

What are PV plant capacity factors in Uruguay?

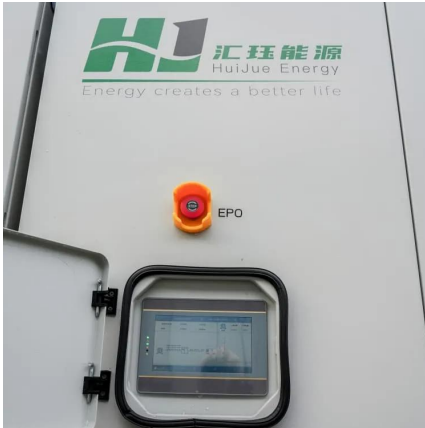
The study finds an average capacity factor of 22.4% over the five-year period, with monthly variations ranging from 14.1% to 28.1%. This work provides the first precise assessment of PV plant capacity factors in Uruguay, providing valuable insights for grid management and future solar energy investments.

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.



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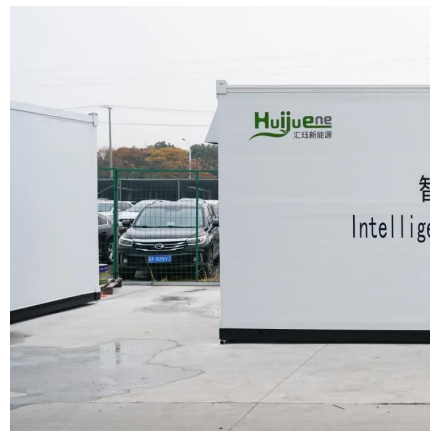
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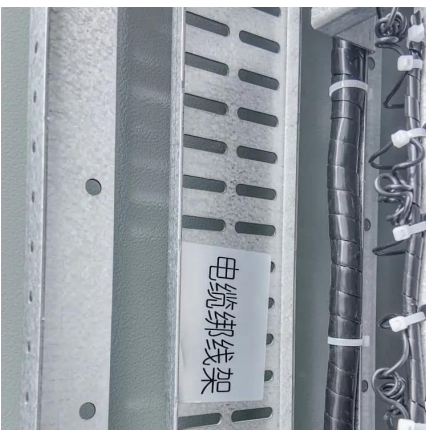
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