

# **Brazil Photovoltaic Energy Storage Container Hybrid**





## Overview

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Are wind and solar energy resources a complementary resource in Brazil?

In the light of the current moment of transformation of the electricity sector in Brazil and elsewhere, with a growing uptake of utility-scale wind and solar power plants, this work shows that the temporal complementary of wind and solar resources in the Brazilian Northeast is consistent and it can have a major role in the optimal portfolio design.

What is Brazil's energy mix?

With an installed generation capacity of over 170 GW, the Brazilian energy mix is very diverse in resources, with 62% of its energy being provided by hydroelectricity, 26% by thermoelectric plants (16% fossil fuel, 9% biomass, 1% nuclear), and around 12% by non-dispatchable RE sources (9% wind and 3% solar) .

Is PCC a definitive factor for the optimization of hybrid wind & solar power plants?

These results show that, although the correlation index is indicative of optimization, the PCC alone cannot be considered as a definitive factor for the optimization of hybrid wind + solar power plants. Based on these results, energy storage systems were gradually added until total demand was met (LOLP = 0%) for each scenario.

What is the optimal portfolio mix for the Brazilian NE region?

The results also showed that the combination of 40% wind and 60% solar is the optimal portfolio mix to meet the load of the Brazilian NE region.



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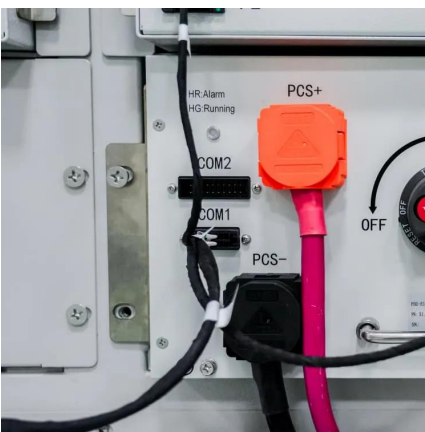


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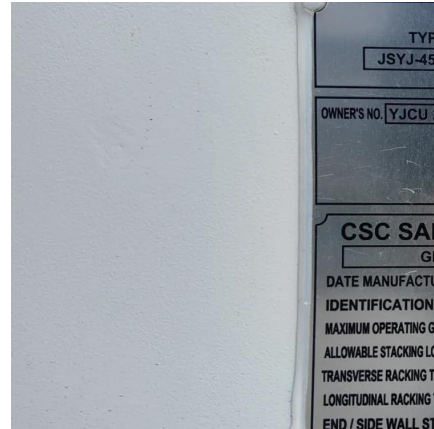


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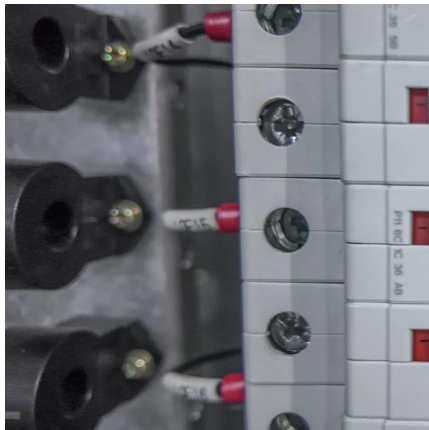
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