

Windhoek solar container communication station wind and solar hybrid closed





Overview

Can a solar-wind system meet future energy demands?

Accelerating energy transition towards renewables is central to net-zero emissions. However, building a global power system dominated by solar and wind energy presents immense challenges. Here, we demonstrate the potential of a globally interconnected solar-wind system to meet future electricity demands.

Why is Namibia suited to green hydrogen production?

Namibia is uniquely positioned to develop green hydrogen at scale and at a low cost compared to most other countries, due to a combination of a very clear Government strategy, abundant natural resources, political stability and attractive investor landscape.

Is solar-wind deployment suitable?

We evaluate the suitability of solar-wind deployment focusing on three aspects: solar/wind exploitability, accessibility, and interconnectability, as elaborated in Supplementary Table S3. 'Exploitability' pertains to the restrictions dictated by land use and terrain slope for installing PV systems and wind turbines.

Are solar and wind resources interconnected?

Theoretically, the potential of solar and wind resources on Earth vastly surpasses human demand ^{33, 34}. In our pursuit of a globally interconnected solar-wind system, we have focused solely on the potentials that are exploitable, accessible, and interconnectable (see "Methods").



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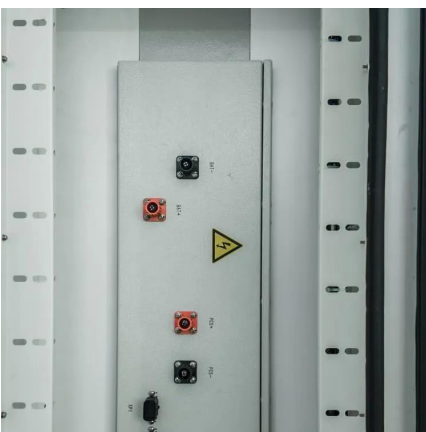
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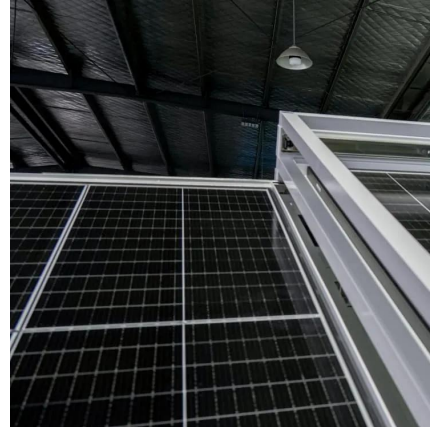
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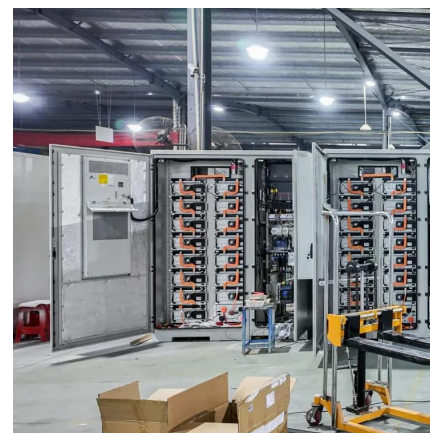


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