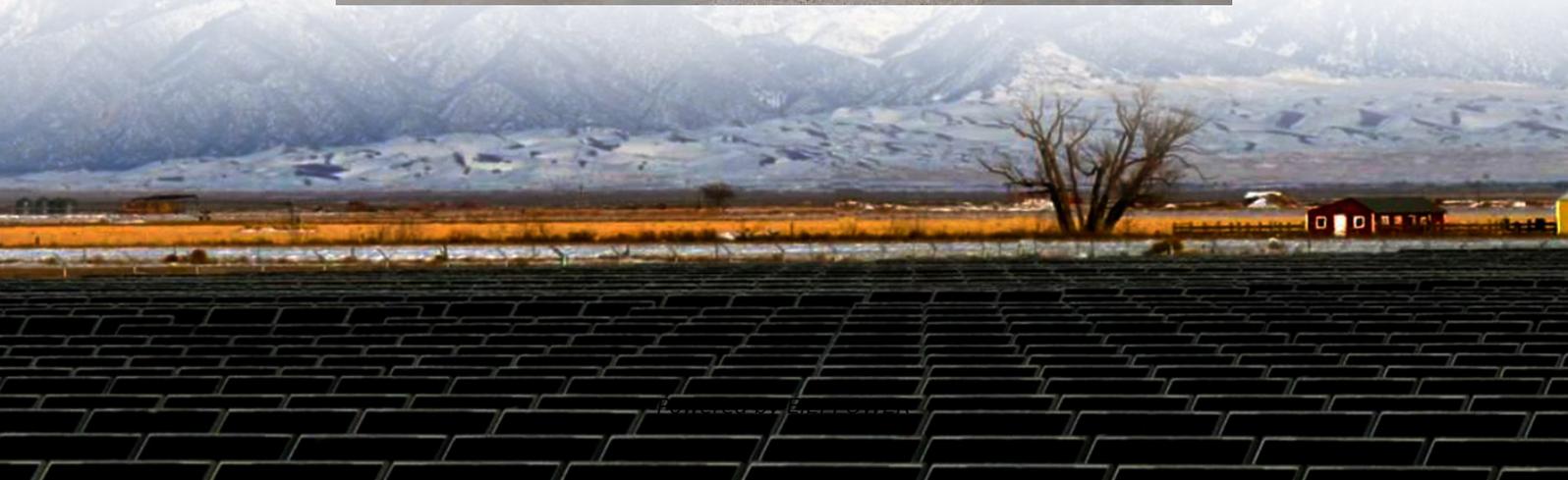


Network solar container communication station wind power construction costs





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.

How much does a distributed wind energy system cost?

The residential and commercial reference distributed wind system LCOE are estimated at \$240/MWh and \$174/MWh, respectively. Single-variable sensitivity analysis for the representative systems is presented in the 2019 Cost of Wind Energy Review (Stehly, Beiter, and Duffy 2020). Analysts included the LCOE estimate for a large distributed wind energy.

Who provides funding for wind energy technologies?

Funding provided by U.S. Department of Energy Office of Energy Efficiency and Renewable Energy Wind Energy Technologies Office. The views expressed in the article do not necessarily represent the views of the DOE or the U.S. Government.

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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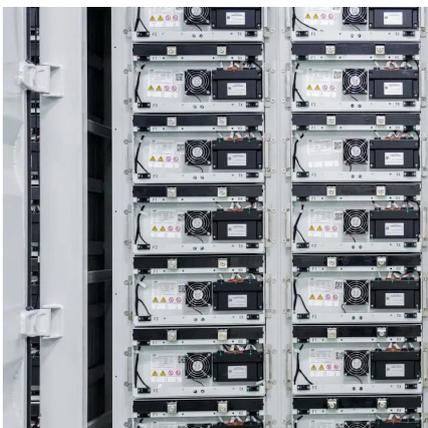
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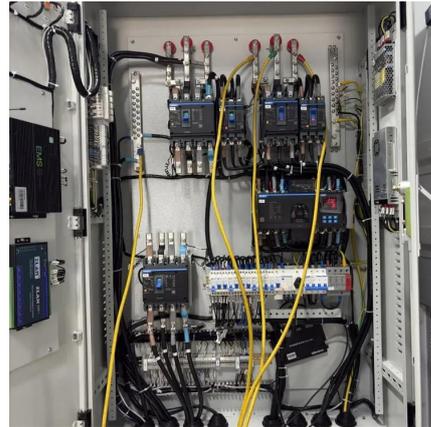
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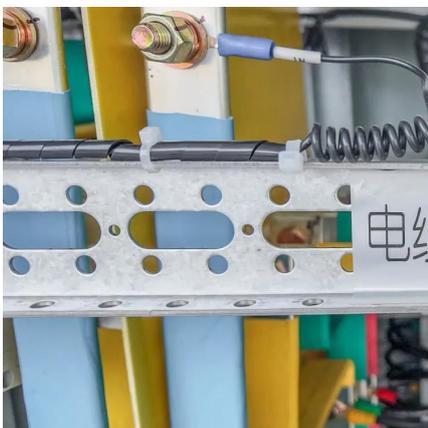


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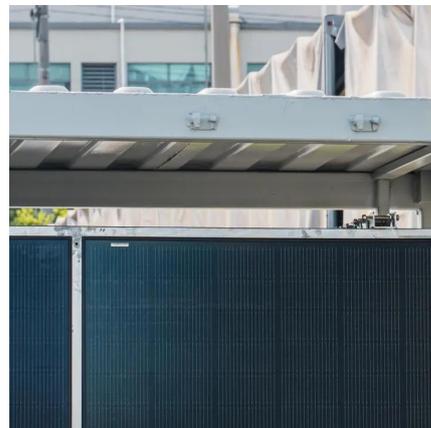
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