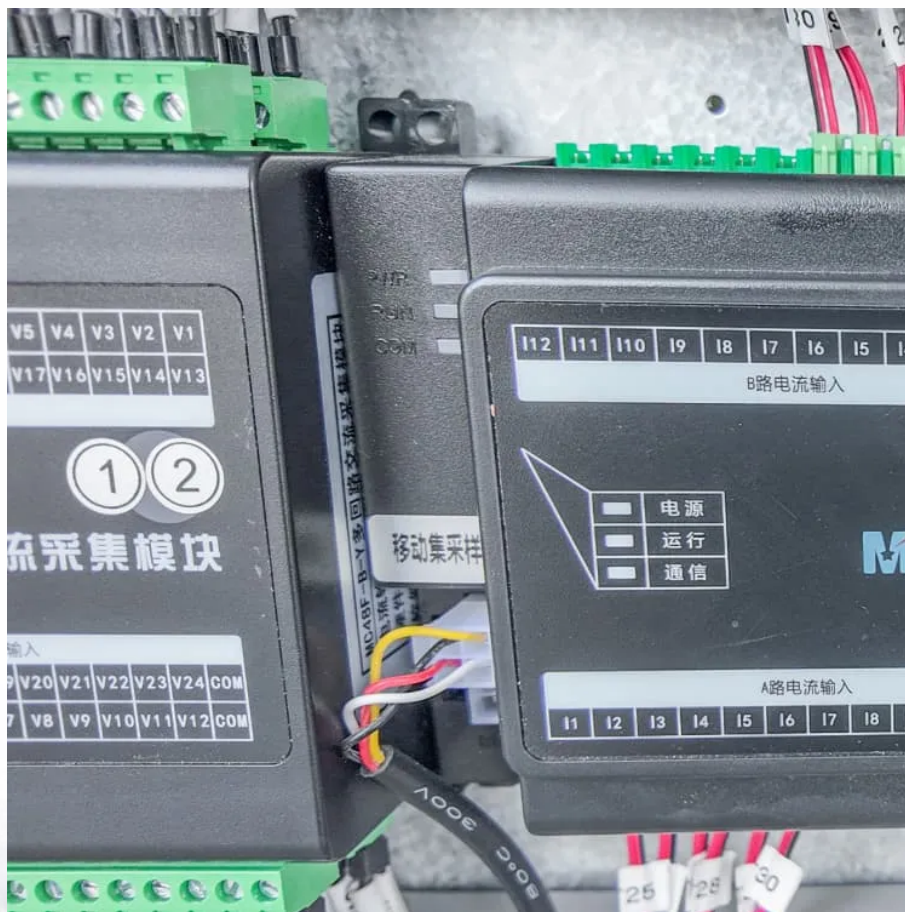


Output power of wind power for solar container communication stations





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 electricity can a solar-wind power plant generate?

Our estimates suggest that the total electricity generation from global interconnectable solar-wind potential could reach a staggering level of $[237.33 \pm 1.95] \times 10^3$ TWh/year (mean \pm standard deviation; the standard deviation is due to climatic fluctuations).

Are solar and wind resources interconnected?

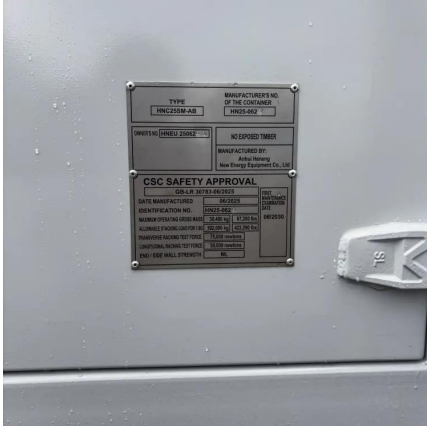
Theoretically, the potential of solar and wind resources on Earth vastly surpasses human demand 33, 34. In our pursuit of a globally interconnected solar-wind system, we have focused solely on the potentials that are exploitable, accessible, and interconnectable (see “Methods”).

How much does a solar-wind power outage affect electricity supply?

Under the S-G scenario, the decline in solar-wind electricity supply caused by the complete outage of a single regional grid averages only 2.6% (ranging from 0.7% to 11.7%), compared to declines of 5.8%, 15.1%, and 26.4% under the S-C, S-A, and S-I scenarios, respectively (Fig. 4b).



Output power of wind power for solar container communication station



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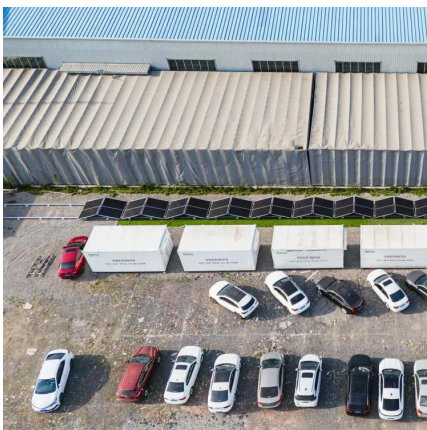
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