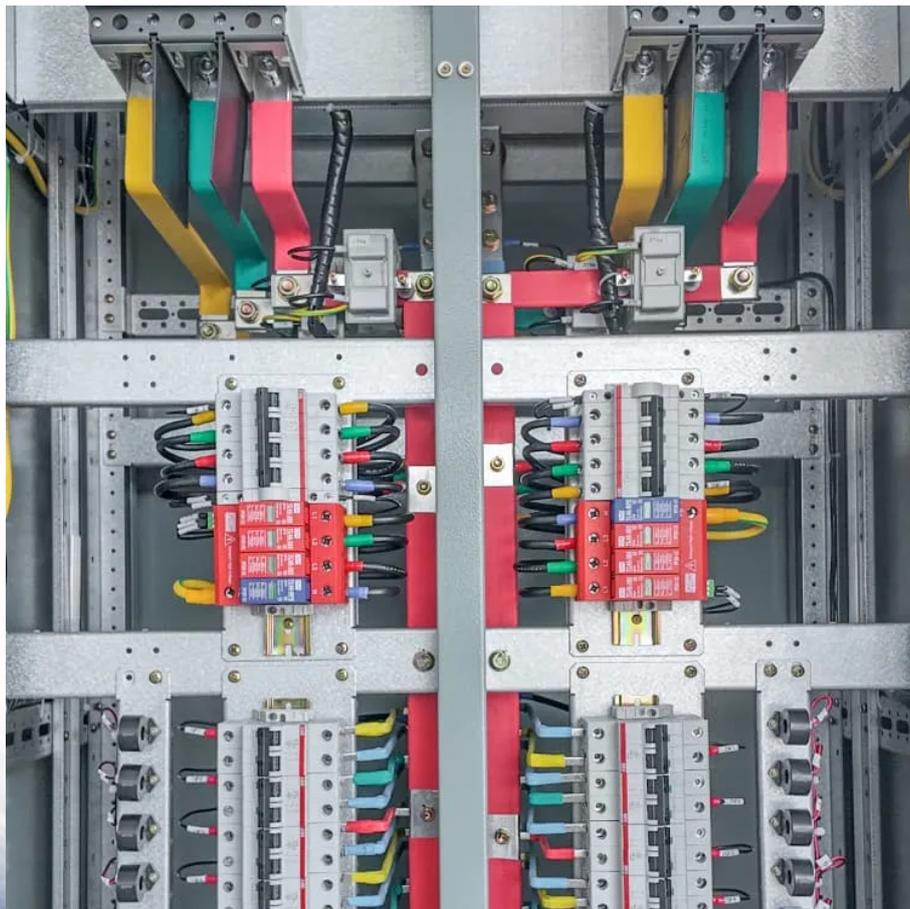


# **Foreign countries have solar container communication stations with wind and solar hybrid outdoor**





## Overview

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Should solar and wind energy systems be integrated?

Despite the individual merits of solar and wind energy systems, their intermittent nature and geographical limitations have spurred interest in hybrid solutions that maximize efficiency and reliability through integrated systems.

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.

Can a PV system be integrated with a USC energy system?

The integration of PV and USC energy systems offers a versatile solution for both on-grid and off-grid energy applications. PV panels convert sunlight into electricity, providing a clean and renewable source of power. However, PV systems can be intermittent due to fluctuating weather conditions. This is where USC come into play.

Are solar and wind resources interconnected?

Theoretically, the potential of solar and wind resources on Earth vastly surpasses human demand <sup>33, 34</sup>. 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”).



## Foreign countries have solar container communication stations with

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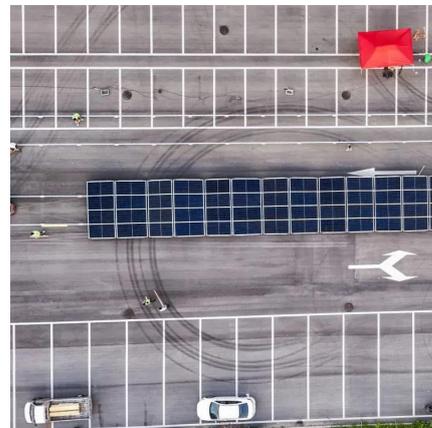


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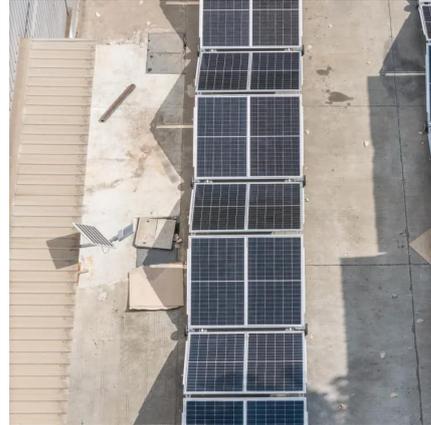
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