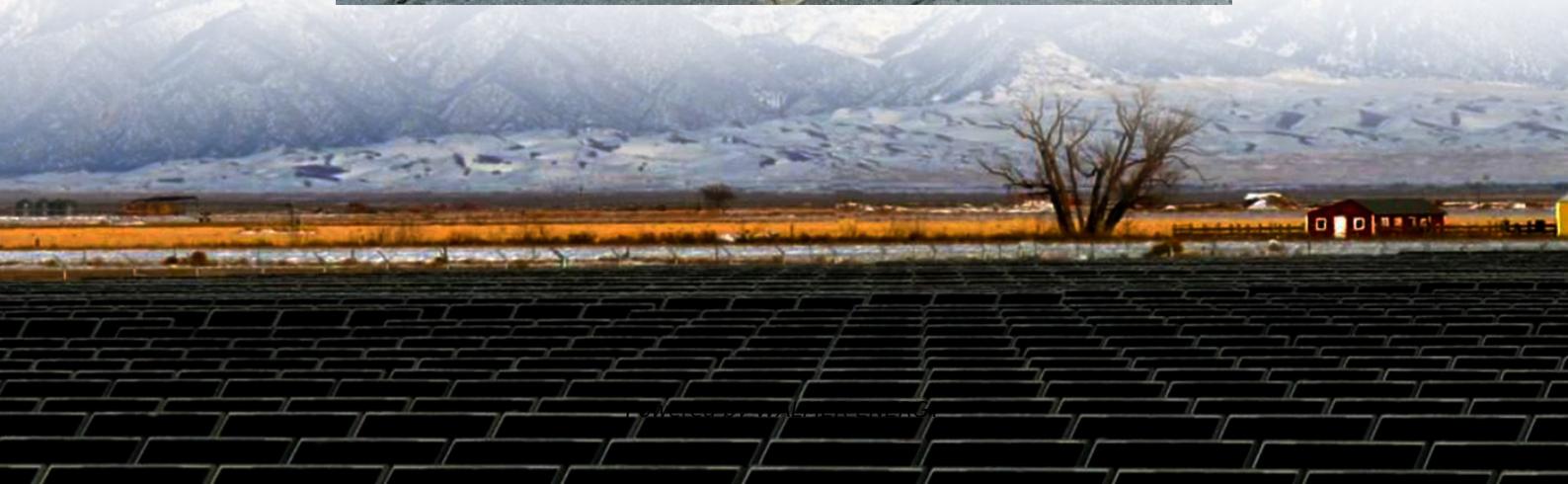




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Overview

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.

Can a global interconnected solar-wind system meet future electricity demands?

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How much energy does China use in Q1 2025?

In Q1 2025, China's wind and solar capacity surpassed its thermal (coal and gas) capacity for the first time, supplying nearly 23% of the country's total electricity consumed, up from roughly 18% in Q1 of 2024, according to the National Energy Administration (NEA).

How many GW of electricity is under construction in 2025?

As of July 2025, 223 GW (37%) of this prospective capacity is under construction, almost four times the combined under-construction capacity of the rest of the world. If these projects become operational, they could generate roughly 1,260 TWh of electricity per year, enough to power about 120 million United States households.



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Integrated Solar-Wind Power Container for Communications

This large-capacity, modular outdoor base station seamlessly integrates photovoltaic, wind power, and energy storage to provide a stable DC48V power supply and optical distribution. Perfect ...

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electricity

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