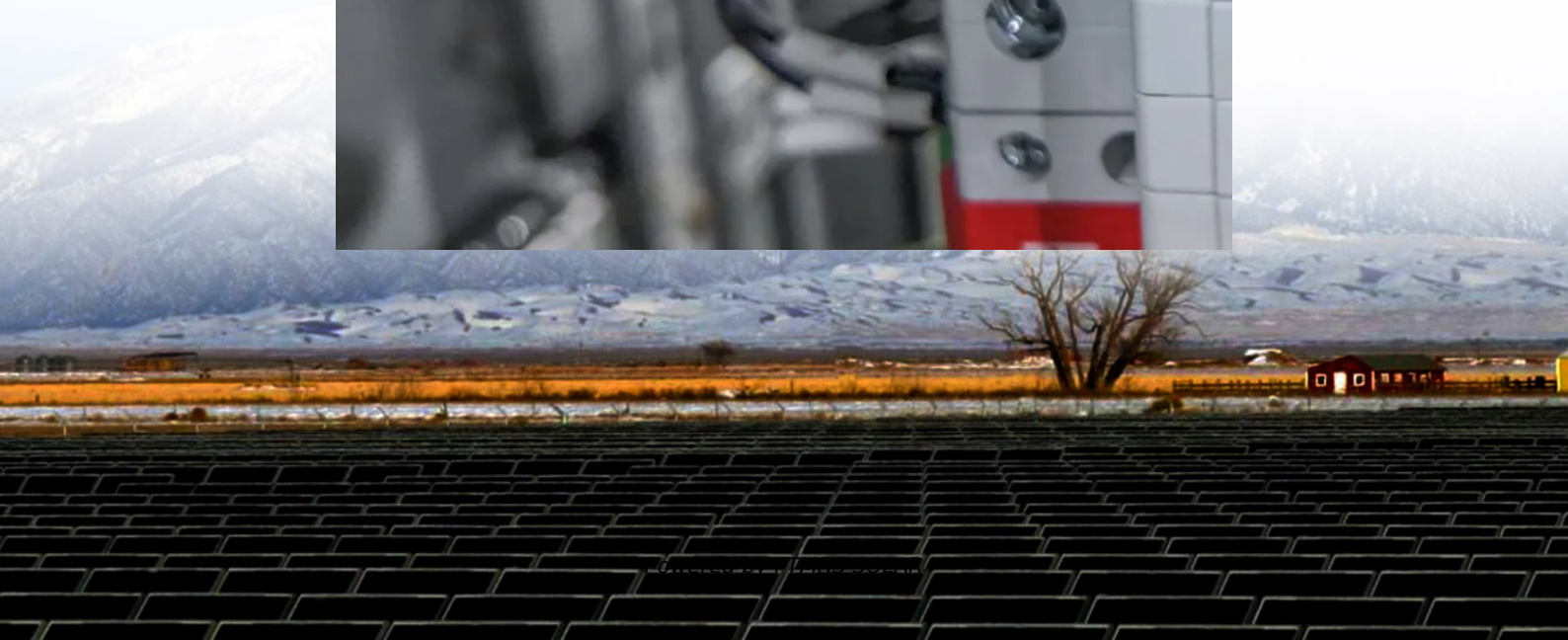
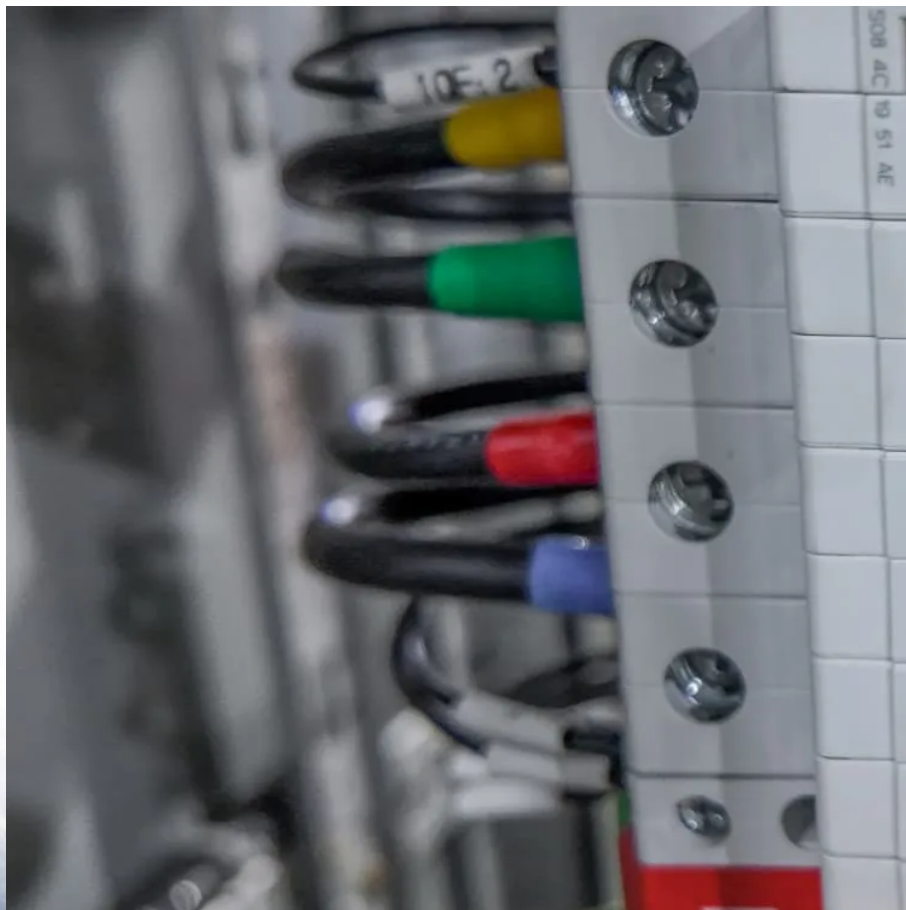


Are there any solar container communication stations with wind and solar complementarity in Boston





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.

Where do grid-boxes contain solar and wind resources?

In densely populated regions such as western Europe, India, eastern China, and western United States, most grid-boxes contain solar and wind resources apt for interconnection (Supplementary Fig. S1). Nevertheless, these regions exhibit modest power generation potential, typically not exceeding 1.0 TWh/year (Fig. 1a).

Can photovoltaics power the belt and Road Initiative?

Chen, S. et al. The potential of photovoltaics to power the belt and road initiative. *Joule* 3, 1895–1912 (2019). Toktarova, A., Gruber, L., Hlusiak, M., Bogdanov, D. & Breyer, C. Long term load projection in high resolution for all countries globally.

How to choose the best solar energy system?

The optimal one was selected based on meeting the minimum solar-wind penetration of 68%, as specified by the International Energy Agency (IEA)'s Net Zero Emissions (NZE) scenario (Supplementary Table S1) while achieving a curtailment close to 5% and minimizing costs.



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