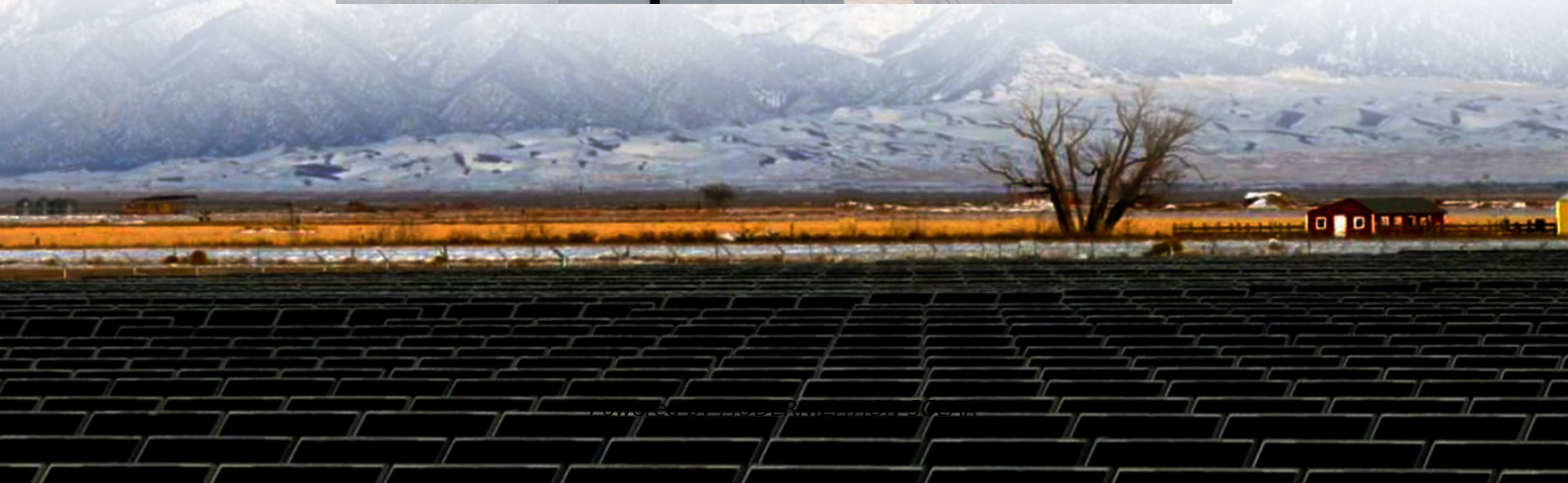


Wind and solar power generation for solar container communication stations





Overview

Can on-site solar and wind generation data be used for forecasting?

Solar and wind generation data from on-site sources are beneficial for the development of data-driven forecasting models. In this paper, an open dataset consisting of data collected from on-site renewable energy stations, including six wind farms and eight solar stations in China, is provided.

Where is wind power generation data stored?

Wind power generation data are in the `wind_farms` folder, which includes six Microsoft Excel files. The real-time power generation and weather conditions are recorded in these files. The basic information about each wind farm is listed in Table 1.

Is wind and solar energy a dispatchable energy?

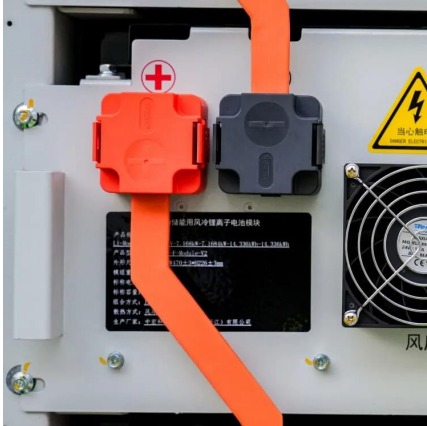
From the supply perspective, compared to traditional dispatchable energy such as coal or nuclear, the generation of wind and solar power is inherently variable and highly dependent on geophysical location, local terrain, and local weather (Liu et al., 2020).

How can wind and solar energy be improved over large areas?

The variability of wind and solar resources aggregated over large areas is lower (Liu et al., 2020), and the spatial-temporal imbalance between renewable supply and power demands can be alleviated.



Wind and solar power generation for solar container communication

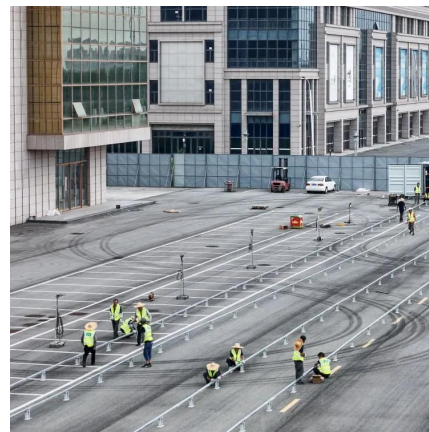


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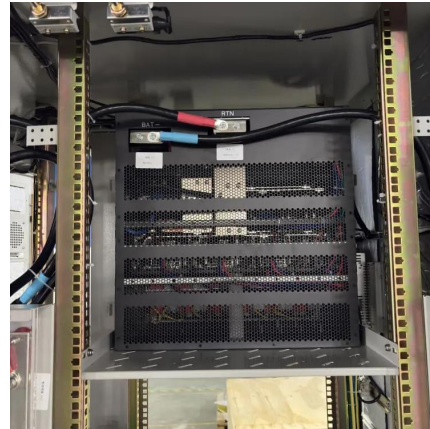


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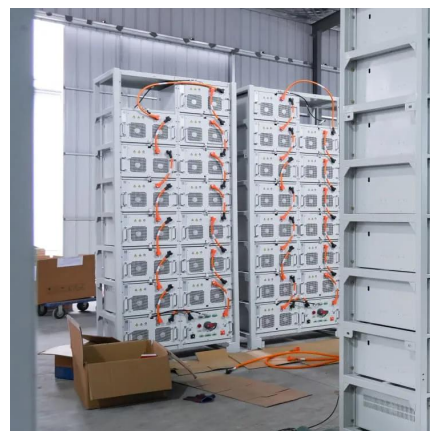
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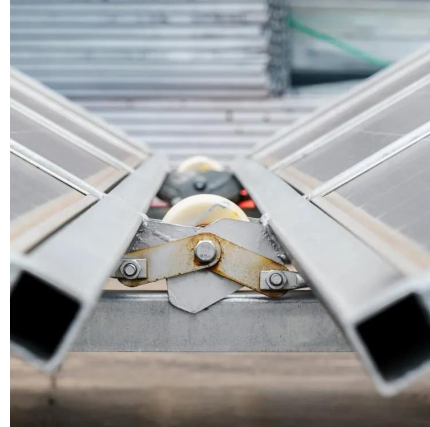
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