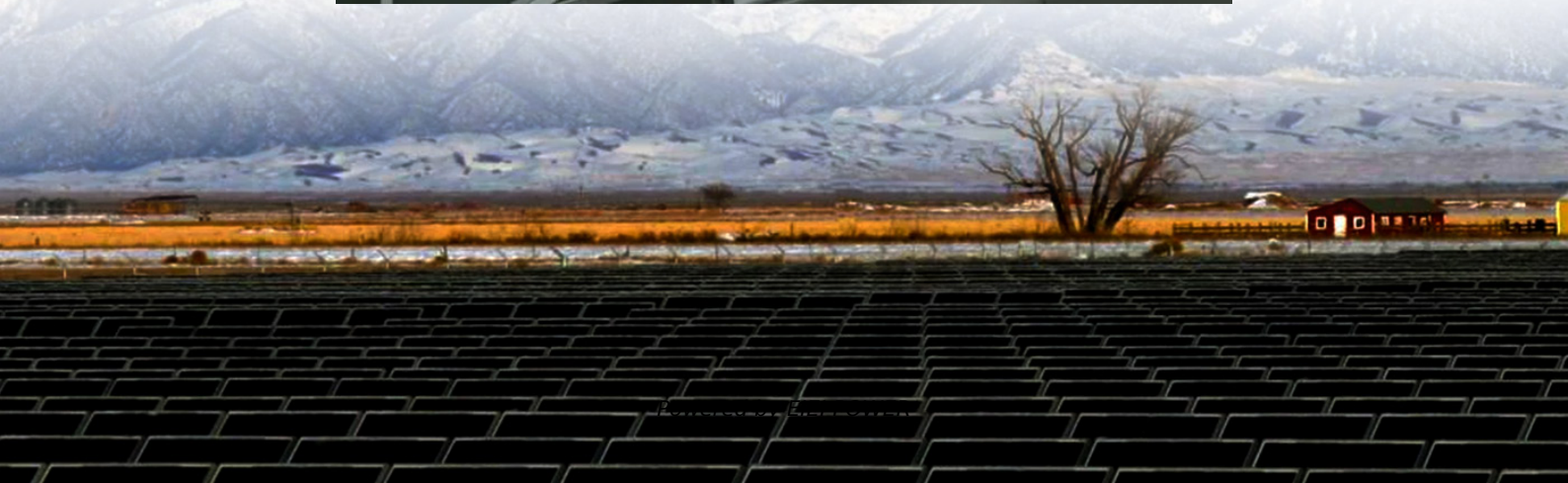
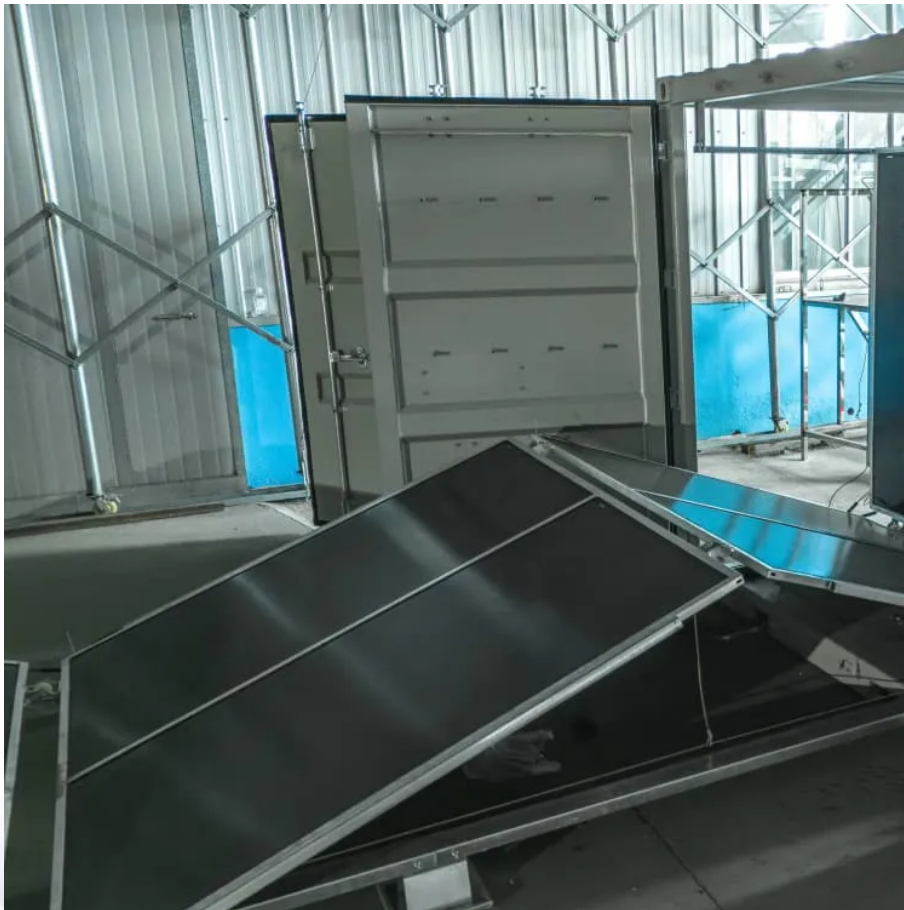


# **5MW Off-Grid Solar Containerized Application in Steel Plants**





## Overview

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What should the government do about concentrated steel plant clusters?

In particular, in regions with concentrated steel plant clusters, the government should plan and establish key energy storage facilities, such as specialized centralized storage centers, to enhance the efficient storage and dispatch of photovoltaic power and improve the system's ability to resist fluctuations.

How to identify steel plants suitable for integration with photovoltaic power plants?

Analytic hierarchy process (AHP) is then used to identify the steel plants suitable for integration with photovoltaic power plants. The EDSAC evaluation model sets five assessment indicators: emission reduction effectiveness, distance effectiveness, supply effectiveness, anti-volatility effectiveness, and cost effectiveness.

How a solar energy storage center works?

In areas where steel plants are scattered, the energy storage center can be placed closer to the photovoltaic power plants, where the electricity generated by the solar plants is first consolidated in the storage center and then directly transmitted to the steel plants via the existing grid.

Can photovoltaic systems improve low-carbon production in Chinese steel plants?

To this end, a model based on distance and electricity demand matching, as well as a related evaluation framework, was developed to assess the suitability of 380 Chinese steel plants for low-carbon production with the integration of photovoltaic systems.



## 5MW Off-Grid Solar Containerized Application in Steel Plants

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