

# **60kWh Photovoltaic Container Used in Steel Plants**





## Overview

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Can photovoltaic power plants produce low-carbon energy?

The low-carbon production pathway through the coupling of ISI with photovoltaic power systems is explored in this study. The capacity and carbon emissions of 380 steel plants are investigated, and the annual power generation of 10,345 photovoltaic systems is estimated.

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 to match PV power plants with steel plants?

The matching between the PV power plants and the steel plants follows the two-stage principle, prioritizing the EAF process steel plants to meet the power demand, and then allocating the remaining power resources to the BF-BOF process steel plants.

How does LZY's photovoltaic power plant work?

LZY's photovoltaic power plant is designed to maximize ease of operation. It not only transports the PV equipment, but can also be deployed on site. It is based on a 10 - 40 foot shipping container. Efficient hydraulics help get the solar panels ready quickly.



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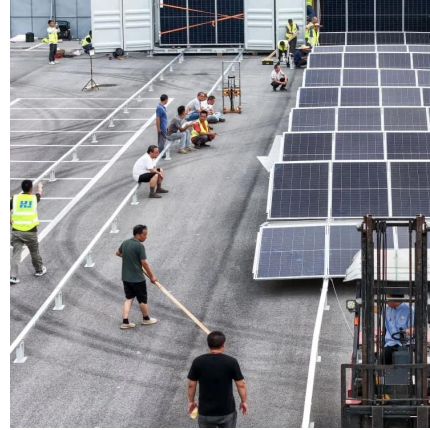
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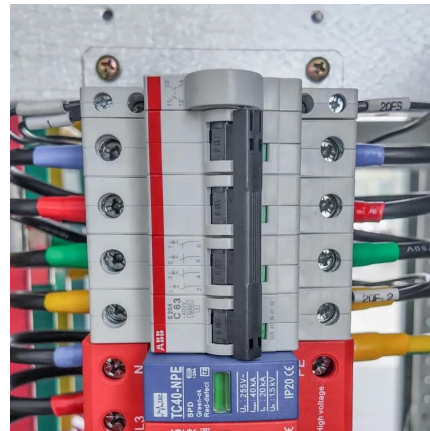


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