

# 20kW Photovoltaic Container Used at Railway Station





## Overview

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As an infrastructure, the railway stations' roof and platform canopy have considerable space potential for deploying photovoltaic power generation systems. In order to study the feasibility of installi.

Can PV systems be installed in high-grade railway stations?

In order to study the feasibility of installing PV systems in railway stations, this paper analyzes the PV potential and techno-economic characteristics of China's high-grade railroad stations by combining a three-dimensional digital earth system (LSV) and PV plant calculation methods.

How much photovoltaic power can a railway station generate?

Calculation results show that the total photovoltaic power generation capacity of Chinese high-grade railway stations, mainly for passenger transportation, amounts to 1111.19 GWh.

How many MWh does a railway PV system generate?

For railway PV systems, the total generation on the day was 12,051 MWh, which is approximately 24 times higher than the consumption. The PV system provided power to the railway system from 5 a.m. to 7 p.m. The railway PV systems were able to cover BS-HSR's electricity demand before 6 p.m.

Can BS-HSR energy consumption be covered by a railway PV system?

A2 shows that only the station PV systems in Beijing and Shanghai can cover the energy consumption of the local BS-HSR. However, the railway PV can achieve self-sufficiency in all regions in terms of generation potential, with Jiangsu Province as the leader.



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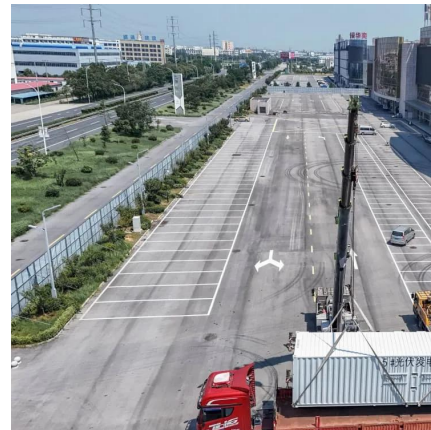


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