

# **Discount Offer for Smart Photovoltaic Energy Storage Container Hybrid Used at Railway Stations**





## Overview

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How BS-HSR's electricity demand was covered by the railway PV system?

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. The local railway PV generation satisfied 93.4% of the electricity demand in Jiangsu without the assistance of energy storage devices.

Can railway PV supply power to the HSR?

The lowest daily PV generation is 1334 MWh, which still covers 60% of the electricity consumption. These results indicate the high potential of the railway PV system to supply power to the HSR and show that the railway system is not highly reliant on the storage system, which undoubtedly cuts the system costs.

Can a railway PV system supply electricity to a bullet train?

Same as the situation in Jiangsu, the railway PV system in Shandong can supply electricity to bullet trains during the daytime; after 6 p.m., the railway system needs to import electricity either from storage systems or the utility power grid. Fig. 8.

Can onboard energy storage systems be integrated in trains?

As a result, a high tendency for integrating onboard energy storage systems in trains is being observed worldwide. This article provides a detailed review of onboard railway systems with energy storage devices. In-service trains as well as relevant prototypes are presented, and their characteristics are analyzed.



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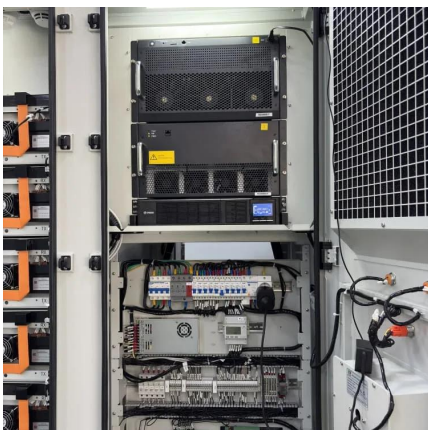


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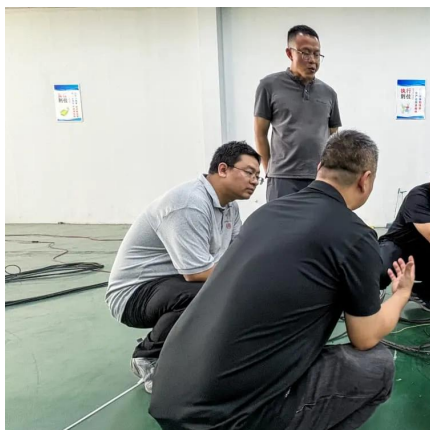


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