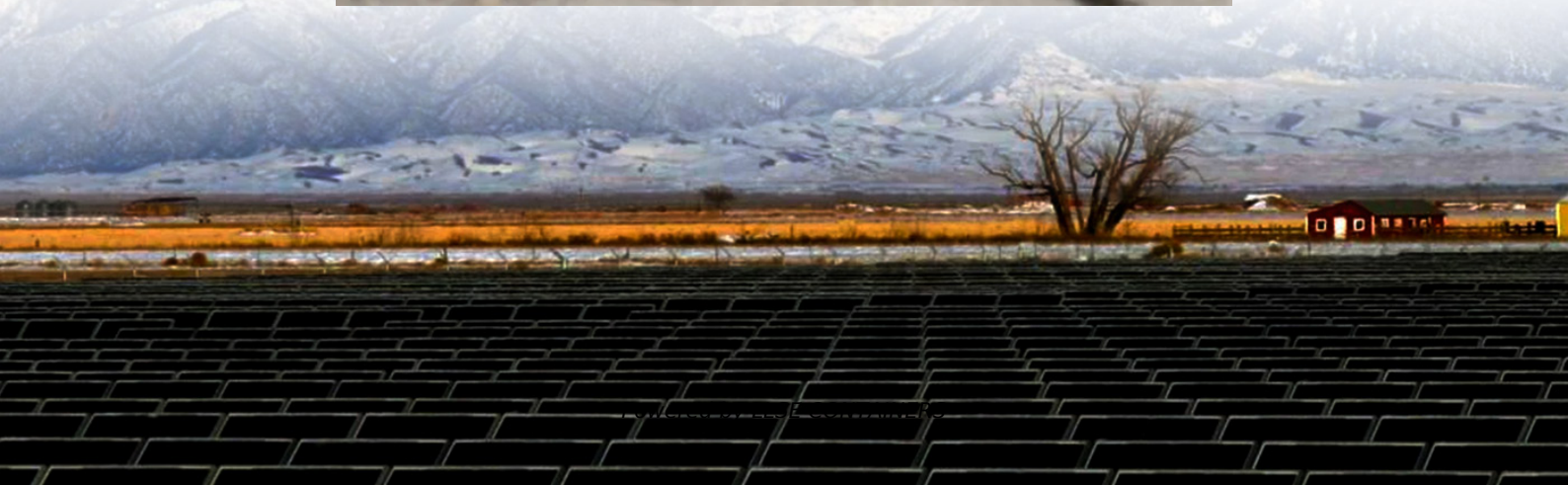


600kW Energy Storage Container Used in North African Railway Stations





Overview

Can energy storage technologies be integrated into railway systems?

The wide array of available technologies provides a range of options to suit specific applications within the railway domain. This review thoroughly describes the operational mechanisms and distinctive properties of energy storage technologies that can be integrated into railway systems.

How do energy storage systems help reduce railway energy consumption?

Energy storage systems help reduce railway energy consumption by utilising regenerative energy generated from braking trains. With various energy storage technologies available, analysing their features is essential for finding the best applications.

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.

Who funded the study 'methods of energy storage for railway systems'?

This study has been funded by the International Union of Railways (UIC) in the "Methods of energy storage for railway systems" project (RESS/RSMES 2020/RSF/669). (Funding partners ADIF, INFRABEL, NETWORK RAIL, RFI, NS, SBB and SZCZ).



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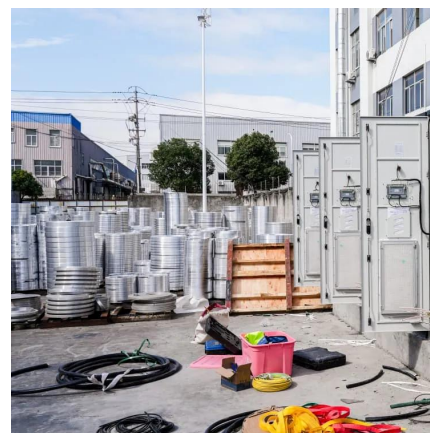
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