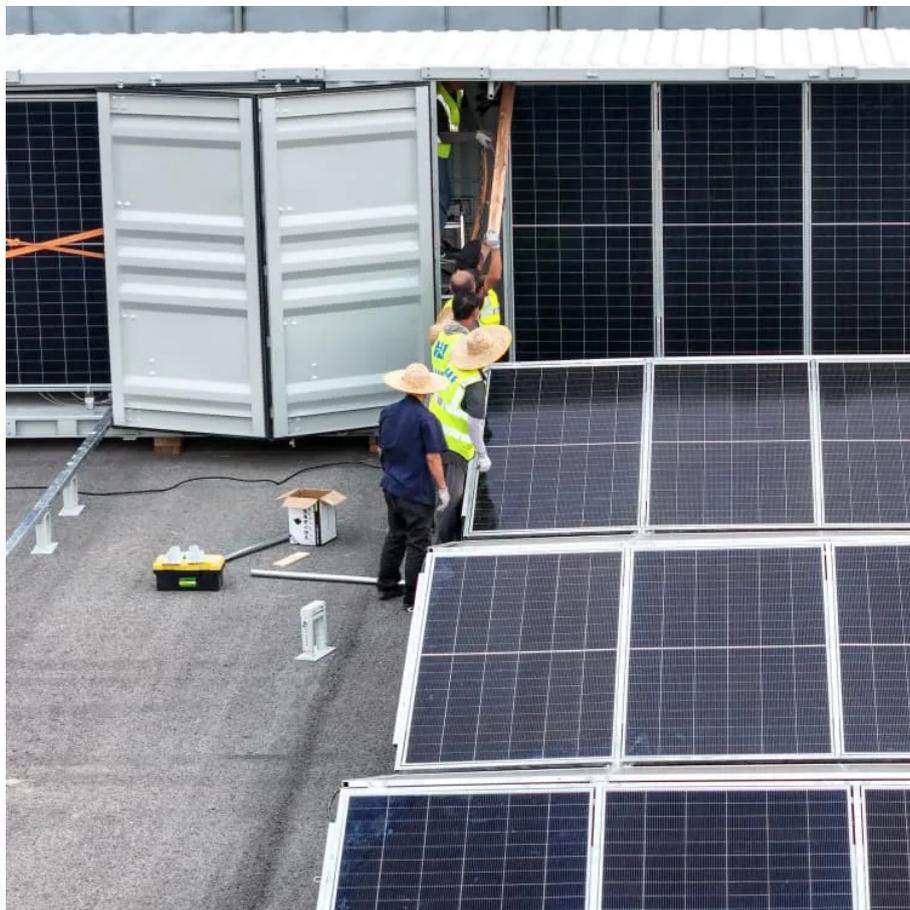


Automatic Mobile Energy Storage Container for Highways





Overview

European Commission aims to reach net zero carbon emissions by 2050. Since transport produces 23 % of the global emissions, a massive electrification is necessary. A proper infrastructure for battery an.

Can a mobile energy storage system replace centered power scheduling?

In this paper, an enhanced coordinated energy scheduling scheme is proposed for typical highway demand scenarios, based on the introduction of mobile energy storage system, to replace the traditional centered power scheduling.

Should mobile energy storage system be used?

It could maintain the balance between energy supply and users demand, and minimize the cost of energy system dispatch operations. The appropriate selection and cost of the mobile energy storage system are investigated and evaluated.

Can a highway microgrid coordinate energy mobile scheduling scheme integrate transportation-energy convergence?

In order to integrate the transportation-energy convergence, the study on emergency treatment and operational recovery of microgrid system under extreme circumstances provides a further expansion foundation. Our numerical results verify the effectiveness of the proposed highway microgrid coordinated energy mobile scheduling scheme.

What are the characteristics of energy consumption facilities along the highway?

Apart from urban roads, energy consumption facilities along the highway have the characteristics of wide spatial distribution, long distance from the energy supply channel, high total energy consumption, multiple load types and high reliability requirements.



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