

Scalable Mobile Energy Storage Containers for Highways





Overview

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 is a highway energy micro-grid model?

The given highway energy micro-grid model considers the load demand, energy storage unit and renewable energy supply. The MESS model includes cost, dispatch loss and delay, and passes the conditional probability model.



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