

Therefore, in order to achieve the goal of energy saving, high efficiency, low carbon and green electric railway, based on the characteristics of electric railway, this paper proposes a control ...

In this paper, we focus on defining temporal specifications for power management within a Direct Current (DC) microgrid tailored for a smart railway station.

On the basis of sorting out the power supply structures of conventional AC and DC modes, this paper first reviews the characteristics of the existing TPSs, such as weak power supply flexibility and low ...

This paper takes Suzhou Rail Transit Line 5 as an example to illustrate the research and application of smart energy in rail transit DC lighting microgrid. Suzh.

Abstract This article presents a state-of-the-art review of the status, development, and prospects of DC-based microgrids.

This paper discusses the structure of green microgrids and conducts a comprehensive review and comparative analysis of various green energy sources, energy storage systems, and ...

This paper introduces various future AC-DC-coupled hybrid railway microgrid (ADH-RMG) architectures centered around a shared DC bus acting as a DC hub for upgrading ...

In this paper, based on a Matlab/Simulink environment, a microgrid system based on an AC-DC hybrid bus is built. The simulation results verify the effectiveness of the proposed microgrid...

Then, the minimal operation cost of urban rail transit (URT) substation is obtained by a day-ahead energy management considering the forecast data of RES and different discharging ...

This paper introduces various future AC-DC-coupled hybrid railway microgrid (ADH-RMG) architectures centered around a shared DC bus acting as a DC hub for upgrading conventional AC ...

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