FRINDEL OPTICS

Energy-efficient hybrid energy system for subway applications

Energy-efficient hybrid energy system for subway applications

Extract from the Proceedings of Building Simulation and Optimization

This paper will outline the model engineering of the integrated environmental models of the subway station's Energy Control System, which involves the development of natural and forced ventilation,

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Philadelphia unveils new hybrid subway trains that use

The regenerative braking applications are similar in concept to what you'll find on the Toyota Prius -- the idea is that brake energy from subway trains

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Subway Energy-Efficient Management , Springer Nature

This book provides a comprehensive presentation on energy-efficient management in subway system via operations research and uncertain optimization methods. It

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Energy-Efficient Train Timetable Optimization in the Subway System

To utilize the regenerative braking energy, investigates a train timetable problem in a subway system equipped with a series of energy storage devices at stations.

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A novel wind energy harvesting system with hybrid mechanism for self

This new self-powered system collects wind energy in subway tunnels and converts it into electrical energy for storage and utilization. The system is composed of three parts: electromagnetic wind

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COMPARATIVE STUDY OF EXISTING METHODS FOR IMPROVING THE ENERGY

According to Pires, Nabeta Cardoso and reuse the energy produced by regenerative braking trains of a subway system is ng the energy efficiency of the system , but difficult to implement in the

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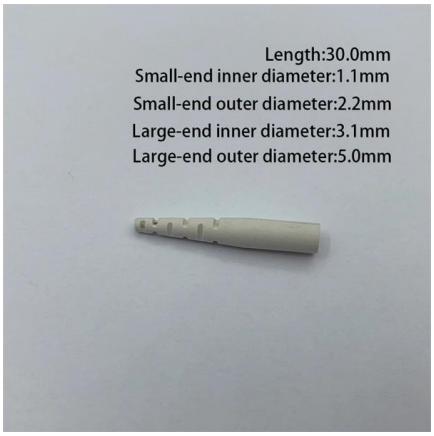

Energy Storage in the Subway Electric Drives Power Supply System

The article concentrates on building an energy-saving model for the subway power supply system, which, combined with modern adjustable speed induction motor dri

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Energy-Efficient Train Timetable Optimization in the Subway System

With this consideration, this paper particularly investigates a train timetable problem in a subway system, which is equipped with a series of energy storage devices at stations. A nonlinear

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Hybrid energy harvesting technology: From materials, structural design

Hybrid harvesting includes not only scavenging energy from multiple sources, but also converting energy into electricity by multiple types of transduction mechanisms. A reasonable

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Model Predictive Control for Energy and Climate Management of a Subway

We present hereby a methodology for the optimal management of a microgrid connecting regenerative braking energy sources, eventual distributed energy resources, heating, ventilation, air

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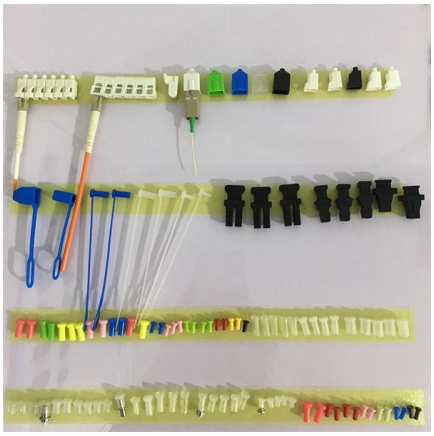

Subway Energy Usage and Analysis of Energy Storage System Applications

In this project electrical energy usage data was collected and analyzed to quantify the energy budget with respect to regenerative braking performance and potential Energy Storage System (ESS)

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A novel wind energy harvesting system with hybrid mechanism

This paper presents a new type of self-powered system for WSN nodes in tunnels to solve the power supply problem in subway tunnel safety monitoring systems. This new self-powered system collects

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1075KWHH ESS

Energy-Efficient Operation of Subway Systems

In this paper, we present and compare to two algorithms to optimize the energy-efficient speed profile for trains of subway systems, which can reduce the energy consumption of train operations.

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Comparative Study Of Subway Systems To Increase

Energy storage systems (ESSs) are enabling technologies for well-established and new applications such as power peak shaving, electric vehicles,

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A novel wind energy harvesting system with hybrid mechanism for self

The system designed in this paper can convert the wind energy of the subway tunnel into electrical energy to achieve energy storage and application. This chapter analyzes three aspects:

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Energy Efficiency in Subways: Lowering Power Needs in

Discover the key factors affecting energy use and the future opportunities for enhancing energy efficiency in subways, ensuring a greener and

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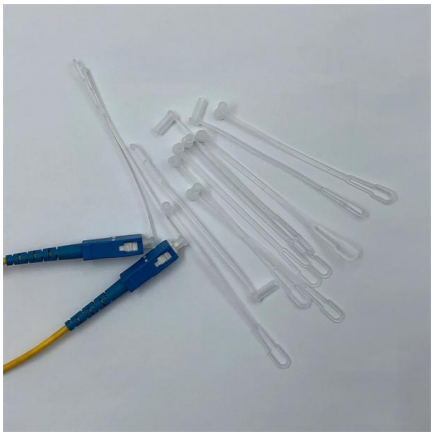

A novel wind energy harvesting system with hybrid

This new self-powered system collects wind energy in subway tunnels and converts it into electrical energy for storage and utilization.

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What are the subway energy storage projects? , NenPower

Continuous advancements in technology will refine these systems further, ultimately leading to increased operational efficiency and sustainability.

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A novel wind energy harvesting system with hybrid mechanism for self

This paper presents a new type of self-powered system for WSN nodes in tunnels to solve the power supply problem in subway tunnel safety monitoring systems. This new self-powered system collects

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Description: A novel wind energy harvesting system with hybrid

A novel wind energy harvesting system with hybrid mechanism for self-powered applications in subway tunnels

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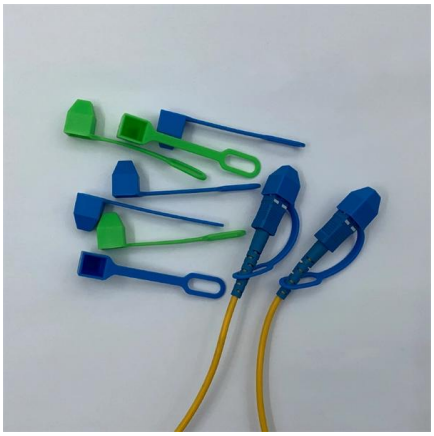

Energy-Efficient Control Optimization of Subway Train with

Applying bidirectional converter substations (BCS) and researching energy-efficient train control (EETC) strategies can effectively reduce the energy consumption of the subway system. This

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Subway hybrid-energy multifunctional-end-integrated heat pump

A subway hybrid-energy multifunctional-end-integrated heat pump system includes energy and user ends and hot water tank. A first energy end includes a capillary-tube front-end heat

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A novel wind energy harvesting system with hybrid mechanism for self

The proposed hybrid wind energy harvesting system can be a reliable scheme to supply power to WSN nodes in subway tunnels. Since the system is installed on the inner walls of the

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Enhancing smart city operation management: Integrating energy systems

In this regard, a subway synergism hub (SSH) as a new non-energy system is added to the smart city with the aim of serving the subway's water, heat, electrical and cooling demands as

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