

photovoltaic power sources and battery for energy storage. We have formulated optimal sizing of the system as an optimization problem and it solved using Jaya algorithm (JA). The objective we followed is to minimize the initial capital cost, carbon emissions and dump energy, while taking the time-varying characteristics of

The empirical study shows that the adoption of REM and electrical vehicles can reduce carbon emissions in the supply chain by 13.6%, and GIP managers with different performance targets should choose different energy mixed schemes.

This paper investigates the effects of the reduction of unsorted waste in terms of climate factors and energy balance. It is shown that energy saving density from recycling is higher than energy recovery from incineration, hence, source segregated recycling is ...

The plug-in hybrid vehicles (PHEV) technology can effectively address the issues of poor dynamics and higher energy consumption commonly found in traditional mining dump trucks. Meanwhile, plug-in hybrid electric trucks can achieve excellent fuel economy through efficient energy management strategies (EMS). Therefore, a series hybrid system is ...

Combined with the three topology structures of motor light overload, cooling fan electrification, and reverse drag engine, four technical solutions are proposed to improve the energy utilization rate of mining dump trucks. "Energy-saving coefficient of feedback braking energy" is the evaluation index, taking a mine dump truck with a load of ...

What role should curtailment, energy storage and other flexibility levers play in helping to integrate large amounts of renewable energy in a cost-effective fashion? This question is particularly germane today with the hype around energy storage and its purported values, value stacks, and promised cost reductions, arguments that certainly have ...

Renewable Energy management and Demand Response and by PSO Algorithm (matlab code) The codes contain an optimal economic dispatch of a grid connected microgrid. The microgrid consists of solar photovoltaic, diesel and wind power resources. An incentive based demand response program is incorporated into the operation of this microgrid.

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