

GM Defense will leverage GM's advanced electric vehicle propulsion architecture, the Ultium Platform, to deliver a scalable and adaptable energy storage unit that supports the tactical energy requirements ...

This paper presents the design and analysis of a hybrid off-grid energy system for military stations, integrating photovoltaic (PV) solar panels, wind turbines, battery energy storage systems (BESS), ...

This paper reports on the progress of detailed MatLab/Simulink models of a destroyer class ship service electric power distribution system that have been developed to evaluate the performance of battery, ...

Based on actual USMA energy demand, weather, and billing data, a model was developed to calculate the output and net present value (NPV) of stand-alone PHES and hybrid energy systems combining ...

Navitas developed this cutting-edge power solution specifically for the Navy's strict flight safety, high power, and energy requirements. This will ensure the Navy maintains its ability to track and identify ...

Several works have addressed the optimal design of ESS (i.e. battery) in standalone and hybrid configuration - i.e. combined with supercapacitors (SCs)- for vehicle applications ranging from light-duty ...

NREL selected three installations (Table ES-1) representative of many military installations to assess the costs and benefits of using Antora Energy's BESS coupled to an on-base PV system to provide ...

"Our collaboration with ERDC-CERL focuses on refining our existing energy storage system through targeted design modifications and the integration of new features to meet the unique ...

The primary objective of the STEEP program is to develop a modular, vehicle transportable system that provides various forms of energy storage and management for tactical and ...

This article proposes a three-stage planning procedure for identifying the optimal locations and capacities of energy storage systems, considering multiple operating scenarios via stochastic ...

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