

A mobile ES unit, often referred to as "storage-on-wheels", is an emerging technology that has been recently developed in the form of a trailer-mounted electrochemical battery. Consolidated Edison of New York is currently considering installing such mobile ES units to reduce the impact of PV generation

mode, and truck-mounted mobile energy storage systems (MESSs) can also bring potential opportunities to further improve the reliability, flexibility and efficiency of future smart grids. However, as these emerging mobile energy storage re-

This paper proposes a practical and effective planning approach that takes advantage of the mobility and flexibility of mobile energy storage systems (MESSs) to increase distribution system resilience against complete area blackouts. MESSs will be very useful for boosting the system's resilience in places affected by disasters when the transmission lines ...

Power Edison, the leading developer and provider of utility-scale mobile energy storage solutions, has been contracted by a major U.S. utility to deliver the system this year. At more than three megawatts (3MW) and twelve megawatt-hours (12MWh) of capacity, it will be the world's largest mobile battery energy storage system.

The LLC converter is a key component of the bidirectional power converter for mobile energy storage vehicles (MESV), it is difficult to obtain small gains at low power levels, so the power control in the pre-charging stage of the Li-ion battery cannot be achieved. In addition, the bus voltage may be lower than the peak grid voltage due to LLC reverse gain limitation. The low ...

With the rapid development of the national economy and urbanization, higher reliability is more necessary for the urban power distribution system [1], [2]. As a typical spatial-temporal flexible resource, mobile energy storage (MES) provides emergency power supply in the blackout [3], which can shorten the outage time, decrease the outage loss, and ...

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