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What is mobile battery energy storage system (MBESs)?
Taking reactive power capability of the battery into account. Spatio-temporal and power-energy controllability of the mobile battery energy storage system (MBESS) can offer various benefits, especially in distribution networks, if modeled and employed optimally.

Can mobile battery energy storage systems be optimized for distribution networks?
Spatio-temporal and power-energy controllability of the mobile battery energy storage system (MBESS) can offer various benefits,especially in distribution networks,if modeled and employed optimally. Accordingly,this paper presents a novel and efficient model for MBESS modeling and operation optimization in distribution networks.

What are the benefits of MBESs vs stationary battery?
Accordingly,the battery will also be able to shift the stored energy,both spatially and temporally. This spatio-temporal energy transportwill increase the benefits of the MBESS compared to its stationary counterpart. The idea of using the MBESS was first introduced by the Electric Power Research Institute (EPRI) in 2008 .

Can a battery system be movable?
The whole battery system container is mounted on a truck to be movable. The truck-mounted battery system,or equivalently Mobile Battery Energy Storage System (MBESS),can move across the network for charging and discharging if connected to a bus. The black-filled circles denote distribution network buses (denoted by sets i and j).

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