

Virtual power plant: MG: Microgrid: V2G: Vehicle to grid (discharge) MILP: Mixed integer linear program: WP: Wind power: MIP: Mixed-integer programming: WT: ... Deep reinforcement learning based energy storage management strategy considering prediction intervals of wind power. Int J Electr Power Energy Syst, 145 (2023), pp. 1-10, 10.1016/j ...

Many studies have focused on congestion management problems in power networks, which can be separated into two groups. One is the congestion in transmission network, and the other is the congestion in distributed network [6]. A transmission network is usually meshed topology, while a distributed network is radical topology [7] addition, it is necessary for a transmission network ...

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Microgrids and virtual power plants (VPPs) are two LV distribution network concepts that can participate in active network management of a smart grid [1]. With the current growing demand for electrical energy [2], there is an increasing use of small-scale power sources to support specific groups of electrical loads [3]. The microgrids (MGs) are formed of various ...

The energy management system of the M-GES plant was first systematically studied. ... The use of modular weights for gravity energy storage power plants has great advantages over standalone weights, such as flexibility in output power, ease of mass production of related equipment and better flexibility in the selection of weights, etc., and M ...

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