

What is cluster energy-storing control method?

On this basis, the cluster energy-storing control method is proposed for the voltage out of the limit problem and new energy consumption problem respectively, and the simulation and analysis are carried out through the IEEE-33 node distribution network simulation example, the conclusions are as follows:

Are clustered energy storage stations flexible?

Nevertheless, the different characteristics and varying support capabilities of multiple ESSs can result in complex calculations and difficult converging, preventing the comprehensive exploitation of their flexibility. In contrast, clustered energy storage stations exhibit significant potential for flexibility and regulation.

How to evaluate aggregated flexibility in clustered energy storage stations?

To balance accurate evaluation and efficient calculation of the aggregated flexibility, a two-stage evaluation of aggregated flexibility in clustered energy storage stations for meeting peak requirements is proposed. The method has two stages: day-ahead pre-evaluation and intraday rolling evaluation.

How many energy storage nodes are in a cluster?

Cluster 1 contains nodes 20 and 24 energy storage, cluster 2 includes nodes 28 and 32 energy storage, cluster 3 includes nodes 13 and 18 energy storage, the state of charge ranges from 0.05 to 0.95, and the initial state of charge is 0.2. The allowable voltage deviation range is  $\pm 5\%$ .

Do clustered energy storage stations participate in peak regulation scheduling?

M1: The clustered energy storage stations participate in peak regulation scheduling on a 15-min time scale.  
M2: The clustered energy storage stations participate in peak regulation scheduling on a 15-min time scale, and the dynamic characteristics of the state of charge affecting future flexibility are considered.

Where can distributed energy storage systems be used?

Distributed energy storage systems can be used almost everywhere around the system of power, have broad application prospects and huge application potential, and will become more and more significant for the power grid in the near future.

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