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The role of flywheel energy storage in microgrids



Overview

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Energy storage systems (ESS) play an essential role in providing continuous and high-quality power. ESSs store intermittent renewable energy to create reliable micro-grids that run continuously and efficiently distribute electricity by balancing the supply and the load [1]. The existing energy.

The analytical results show the role of FESS and the principle of controlling their operations in the microgrid. Renewable energy is a clean and endless energy source that nature bestows upon people. Renewable energy sources include solar energy, wind energy, biomass energy, ocean wave energy.

A flywheel acts like a mechanical battery that stores energy in kinetic form. The flywheel works based on Newton's first law of motion applied to rotating systems, wherein the flywheel keeps rotating even after removal of the source transferring rotational energy. This rotation of the flywheel.

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