

## SolarTech Power Solutions

# Battery Energy Storage Assisted Frequency Regulation Project



## Overview

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In this paper, a hierarchical energy management strategy, which can be applied to different scenarios with and without limited communication systems, has been proposed to coordinate a large number of small-scale energy storage systems to regulate frequency for power systems.

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The battery energy storage system (BESS) is a better option for enhancing the system frequency stability. This research suggests an improved frequency regulation scheme of the BESS to suppress the maximum frequency deviation and improve the maximum rate of change of the system frequency and the.

In order to solve the capacity shortage problem in power system frequency regulation caused by large-scale integration of renewable energy, the battery energy storage-assisted frequency regulation is introduced. In this paper, an adaptive control strategy for primary frequency regulation of the.

**Abstract**—Battery energy storage systems (BESSs) have been widely adopted in providing ancillary services, e.g., frequency regulation, to the power system. Existing studies usually focus on the accurate tracking of regulation signal, while overlook the heterogeneous cost in actuating different BESS.

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