



**SolarTech Power Solutions**

# **Frequency regulation method of energy storage power station**



## Overview

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This study proposes a method for optimizing the frequency regulation reserve of wind-PV-storage stations, considering the online regulation contribution of the station.

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Frequency regulation in energy storage power stations is crucial for maintaining a stable power grid. 1. It refers to the process of balancing the supply and demand of electricity, which is essential for grid reliability. 2. Energy storage systems (ESS) play a pivotal role in this regulation.

The proposed method has dual features including providing/absorbing power frequency dip/rise. It also allows batteries with a low state of charge to participate in frequency regulation without risking battery degradation or regulation failure. side and battery-side converter parameters while.

The frequency regulation scale of energy storage systems primarily involves three aspects: 1. The capability of energy storage systems to provide frequency regulation services effectively, 2. The specific technological configurations employed for optimal performance, 3. The varying applications.

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