



**SolarTech Power Solutions**

# **Wind power generation and energy storage matching ratio**



## Overview

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Numerical results demonstrate that the proposed method can fully utilize the stable output from the low-frequency correlation of wind and solar energy, combined with energy storage, to significantly reduce the fluctuation rate of regional grid-connected loads.

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In response to the issue of limited new energy output leading to poor smoothing effects on grid-connected load fluctuations, this paper proposes a load-power smoothing method based on “one source with multiple loads”. The method comprehensively considers the proximity between the source and the.

luation standard for source-side and different load-side matching different loads, sel algorithm based on Tent-chaotic mapping is employed to optimize e ble output from the low-frequency correlation of wind and solar energy, combin lleviating t ad Power smooth 's dual carbon goals, cing. The.

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