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Frequency Control of AC/DC Hybrid Power Grid considering Large-Scale New Energy Integration

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Message from the Guest Editors

New energy, represented by wind power and photovoltaic power, has been integrated into the power grid on a large scale. At the same time, with the approach of carbon balance targets, distributed new energy and offshore wind power are also developing rapidly. The integration of large-scale new energy is changing the traditional transmission mode and power grid structure. This brings many new challenges regarding the frequency control in power systems.

This Special Issue sincerely invites scholars to submit manuscripts detailing their latest research and welcomes reviews about local frequency control of new energy units or energy storage, the frequency control of the regional control center, and multi-area frequency coordination control between AC/DC hybrid interconnection areas. Any technologies, methods, or comments on the latest research in this field that can improve the frequency modulation capability or frequency stability of AC/DC hybrid systems with large-scale new energy integration are within the scope of this issue.

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Message from the Editor-in-Chief

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