

Special Issue

Regulation and Control of Flexible Resources in Resilient and Sustainable Power Systems

Message from the Guest Editors

Large-scale renewable energy has emerged in both centralized and distributed infrastructure to augment conventional generation and limit the impact of fossil fuels on climate change while preserving natural fuel resources. Renewable energy investment and integration, including energy storage and intelligent loading, is one critical facet of progressive power system evolution, which is defining transitional paths to sustainability. Topics for this Special Issue include, but are not limited to, the following innovations and findings:

- Flexible regulation and control of steam and hydro turbines;
- Regulation and control of renewable energy in challenging scenarios, including desert, offshore, and island at transmission and distribution levels;
- Regulation and control of virtual power plant of typical regions;
- Regulation and control of demand response, including residential, commercial and industrial loading and system interconnection;
- ICT and IoT, energy policies and grid codes, and electricity market pricing and trading mechanisms;
- Impacts of renewable generation on dispatch and unit commitment;
- The role of energy storage in control and regulation.

Guest Editors

Dr. Bowen Zhou

Prof. Dr. Matilde Santos

Dr. Timothy Littler

Dr. Jun Cao

Deadline for manuscript submissions

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Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,
Columbus, OH 43210, USA

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