## **Special Issue**

# Advances in the Monitoring, Evaluation, Operation and Development of High-Penetration Renewable Energy Power Systems: 2nd Edition

### Message from the Guest Editors

With the growing global focus on renewable energy, high-penetration renewable energy power systems are rapidly gaining traction. However, the monitoring, evaluation and operation of high-penetration renewable energy power systems face a complex set of technical and management challenges. This Special Issue aims to present the latest developments related to advances in the monitoring, evaluation, and operation of high-penetration renewable energy power systems. Topics of interest for publication include, but are not limited to, the following:

- High penetration of renewable energy;
- Techniques for the monitoring, evaluation and operation of power systems;
- On-line and off-line condition monitoring techniques;
- Condition monitoring and evaluation technology for transformers;
- The electricity-water-carbon nexus and other green energy fields;
- Renewable energy methodology;
- Operational assessment of the electricity market;
- Renewable energy operation technology;
- Advanced modeling approaches;
- Condition assessment techniques of transformers;
- Condition assessment techniques of power systems;
- Operational assessment of power systems.

### **Guest Editors**

Prof. Dr. Yiyi Zhang

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Dr. Yude Yang

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### Deadline for manuscript submissions

20 April 2026



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### **About the Journal**

### Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

### Editor-in-Chief

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