

## Special Issue

# Integration of Energy Storage Technologies into Smart Grids and Modern Power Systems

### Message from the Guest Editor

The increasing demand for sustainable and resilient power and energy systems is accelerating the transformation of power infrastructure. Central to this evolution is the integration of energy storage technologies into smart grids and modern power distribution systems. These advancements not only facilitate the reliable incorporation of intermittent renewable energy sources but also enable enhanced grid stability, load balancing, and energy management. This Special Issue seeks original research, review articles, and practical case studies that delve into the multifaceted applications of energy storage in smart grids and power distribution networks. Contributions are encouraged on topics such as system modelling and simulation, storage control strategies, grid integration approaches, economic and policy analysis, and the role of storage in enhancing grid resilience and sustainability.

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### Guest Editor

Dr. Ahmed Awad

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### Deadline for manuscript submissions

30 January 2026



## Energies

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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.

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### Editor-in-Chief

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