Special Issue

Advances in High Efficiency and Power Density Drives

Message from the Guest Editors

High power density and efficiency are significant qualities for industrial drive systems which significantly promote energy conservation and environmental sustainability. This Special Issue seeks to gather the latest design, optimization, control, and modulation techniques for enhancing the performance of industrial drives. Topics of interest include, but are not limited to, the following:

- New devices/materials for high-efficiency/power-density drives;
- New converters for high-efficiency/power-density drives;
- New designs and optimization for high-efficiency/power-density drives;
- New switching and controls for high-efficiency/power-density drives;
- New machines for high-efficiency/power-density drives;
- New multi-physics analysis for high-efficiency/power-density drives;
- New integrated designs for high-efficiency/power-density drives;
- Optimal planning and operation strategies for modern power systems with high-efficiency/power-density drives;
- Stability analyses and control strategies for modern power systems with high-efficiency/power-density drives;
- Risk/resilience studies on modern power systems with high-efficiency/power-density drives.

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Deadline for manuscript submissions

closed (31 March 2026)

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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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