Special Issue

Integrated Solutions for Transportation and Energy Systems: Advancing Sustainable Mobility and Power Infrastructure

Message from the Guest Editors

This Special Issue explores the critical convergence of transportation and energy systems, driving the evolution toward sustainable, low-carbon infrastructures. As electric vehicle adoption surges and renewable energy sources become more prevalent, innovative solutions are needed to seamlessly integrate smart charging, vehicle-to-grid (V2G) technology, and distributed energy resources. Contributions in this issue will highlight advanced research in optimizing charging infrastructures, virtual power plant operations, and IoT-enabled energy management systems. The focus is on cutting-edge techniques—including artificial intelligence, big data analytics, and robust optimization methods—that enhance grid reliability, cybersecurity, and overall system performance. We warmly invite authors to submit high-quality original research, comprehensive reviews, and case studies addressing the challenges and opportunities at the intersection of transportation and energy systems.

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Deadline for manuscript submissions

25 February 2026

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/233932

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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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