Special Issue

Energy Management in the Multi-Source Systems

Message from the Guest Editors

Energy management in multi-source systems, such as the distributed power generation systems-based renewable energies Hybrid Electric Vehicle (HEV), Plug-in HEV (PHEV), and Pure Electric Vehicles (PEV), often present sharp fluctuations due to the intermittencies of the renewable energies sources or the dynamics driving cycles. These fluctuations cause a various energy management needs, causing harm to energy storage system life (batteries, ultracapacitors, etc.) which affect multi-source system performances. The multi-source systems, which include energy storage systems with an optimal energy management, provide solutions to these problems. However, to avoid excessive cost, the appropriate sizing of the energy storage system for given multi-source system performance requirements is needed through the energy storage system design optimization and its usage. In addition, based on nature of sources and the voltage levels for various applications, it is often necessary to interface the power electronics converters for impedance matching between the sources and the load.

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Deadline for manuscript submissions

closed (20 June 2021)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/50960

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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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