Special Issue

Trends and Prospects in Hybrid Renewable Energy Technologies for Power Generation

Message from the Guest Editor

Innovations in hybrid renewable energy technologies are a response to the challenges of climate change, energy costs, energy security and the need to create sustainable societies. Progress and research enable the use of PV modules or heat pumps in various atmospheric conditions and on various scales. Trends in wind energy also indicate the dynamic growth of this sector: wind turbines have become more efficient and economical, and innovative offshore projects are expanding the potential of wind farms into deep sea areas. Modern hybrid technologies combining various sources of renewable energy enable the optimal use of these resources depending on weather conditions and energy needs. We are seeing the integration of energy systems in our homes, for instance through the electrification of heating systems and electromobility, using V2G technology. The aim of this Special Issue is to collect the latest interesting and original research that demonstrates the energy, environmental, economic and social benefits resulting from the use of integrated renewable energy systems in residential buildings and industry.

Guest Editor

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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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