

Special Issue

Diagnosis and Prognostics of New and Renewable Energy Systems for Safety

Message from the Guest Editors

Renewable energy has been rapidly spreading around the world. The share of renewables in global electricity generation is expected to reach up to 49% by 2030 according to the IEA scenario. ESS also continues to increase in use with renewables to resolve the grid problems caused by intermittent renewables and the imbalance problems between supply and demand of electricity. Additionally, new sources of energy such as hydrogen and fuel cell are also continuously attracting attention. There are cases of failure and explosion of renewables and ESS, which threaten energy security with the increase in renewables. Therefore, PHM (prognostics and health management), which has been researched in many industry areas, such as aerospace and electronics, should be actively researched in the energy area as well, especially renewables. Energy system facilities are systems belonging to complex systems, so the study of PHM and safety becomes more important and challenging.

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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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