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Diagnosis and Prognostics of New and Renewable Energy Systems for Safety

Guest Editors:

Dr. Soo-Bin Han

Korea Institute of Energy
Research, Yuseong-gu, Daejeon
34129, Korea

Dr. Won-Yong Lee

Korea Institute of Energy
Research, Yuseong-gu, Daejeon
34129, Korea

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Message from the Guest Editors

Dear Colleagues,

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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Special Issue



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Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

Message from the Editor-in-Chief

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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