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Design and Validation of Smart Energy System Concepts and Methods

Guest Editors:

Dr. Thomas Strasser

Electric Energy Systems, Center
for Energy, AIT Austrian Institute
of Technology, Giefinggasse 2, A-
1210 Vienna, Austria

thomas.strasser@ait.ac.at

Prof. Dr. Sebastian Rohjans

Civil Engineering,
Geoinformation and Health
Technology, Jade University of
Applied Sciences, 26122
Oldenburg, Germany

sebastian.rohjans@jade-hs.de

Prof. Dr. Graeme Burt

Institute for Energy &
Environment, University of
Strathclyde, Glasgow, Scotland

graeme.burt@strath.ac.uk

Message from the Guest Editors

Due to the considerably higher complexity of cyber-physical energy systems, constituting the power system, automation, protection, information and communication technology (ICT), and system services, it is expected that the design and validation of smart grid configurations will play a major role in future technology and system developments. However, an integrated approach for the design and evaluation of smart grid configurations incorporating these diverse constituent parts remains elusive. Validation approaches available today focus mainly on component-oriented methods. In order to guarantee a sustainable, affordable and secure supply of electricity through the transition to a future smart grid with considerably higher complexity and innovation, new design, validation and testing methods appropriate for cyber-physical systems are required. Papers that present results related to the design and validation of smart grid systems are particularly welcome for this special issue.

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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

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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Energies
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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