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Water Desalination Plants Driven by Hybrid Energy Conversion Systems

Guest Editors:

Prof. Dr. Pietro Zunino

Department of Mechanical,
Energy, Management and
Transport Engineering, University
of Genova, I-16145 Genova, Italy

Dr. Ekaterina Sokolova

Department of Atomic and Heat-
and -Power Engineering, Peter
the Great St. Petersburg
Polytechnic University, 195251
Saint Petersburg, Russia

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to pull together recent developments in the possibility of coupling traditional heat and power systems and renewable energy sources with hybrid desalination plants (HDPs). The scope includes novel hybrid energy conversion systems and component configurations designed for use in water desalination plants to promote low-carbon footprint solutions to the required electrical and thermal energy consumption. Fundamental and applied research papers covering hybrid energy sources as well as review papers with new perspectives will be considered.

The scope of this Special Issue includes but is not limited to the following topics:

- Seawater desalination systems driven by hybrid energy sources;
- Novel hybrid energy schemes and efficiency improvement of co-generation plants;
- Modeling and simulation of desalination systems, hybrid conversion systems, and components;
- Process economics, life cycle analysis (LCA), and life cycle cost analysis (LCCA);
- Thermal, potential, and electrical energy storage systems coupled with power conversion units.



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Prof. Dr. Pietro Zunino

Dr. Ekaterina Sokolova

Guest Editors

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 Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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