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Role of Hydrogen Energy in Renewable Energy Development/Integration and Global Decarbonization

Guest Editors:

Prof. Dr. Olusola Bamisile

College of Nuclear Technology
and Automation Engineering,
Chengdu University of
Technology, Chengdu 610059,
China

Dr. Dongsheng Cai

College of Nuclear Technology
and Automation Engineering,
Chengdu University of
Technology, Chengdu 610059,
China

Dr. Solomon Oyewo

School of Energy Systems, LUT
University, 53850 Lappeenranta,
Finland

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Message from the Guest Editors

Dear Colleagues,

Global energy consumption is expected to shift to renewable energy sources in the future, however, it is important to develop more methods and models that can be used to maximize renewable energy utilization. Preliminary research and existing studies have shown that hydrogen production will be integral to renewable energy development as well as to the future of transport sectors.

Topics of interest for publication include, but are not limited to:

- All aspects and applications of hydrogen energy
- Hydrogen production (power-to-gas)
- Fuel cells
- Application of hydrogen energy in the transport sector
- Electric Vehicles (BEVs, FCEVs, HFEVs)
- Hydrogen energy storage
- Hydrogen production and renewable energy development
- Future energy planning with hydrogen
- Global decarbonization and hydrogen energy
- Energy/exergy analysis of multigeneration systems integrated with hydrogen production.
- Power Systems
- Hydrogen energy trading and geopolitics



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

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