

Special Issue

Life Cycle Assessment and Related Systems-Thinking Approaches for Sustainability of Energy and Water Infrastructures

Message from the Guest Editor

Dear colleagues, Energy and water systems are interrelated, insofar as energy is required to produce clean water, and water is required to produce usable energy, i.e., the so-called “water–energy nexus”. We warmly welcome submissions advancing the knowledge base in this area, with special interest in the following topics, as they intersect the interrelationships between water and energy:

- Environmental life cycle assessments (LCA) of present and future energy systems
 - Including LCAs for developing country scenarios
 - Including technological assessments for novel energy pathways;
- Improvements in life-cycle methodologies or approaches
 - Incorporating novel impacts/endpoints for better characterization of environmental burdens
 - Incorporating spatially and/or temporally explicit data
 - Utilizing probabilistic frameworks for enhancing decision-making under high uncertainty;
- Alternative systems frameworks to supplement or complement traditional LCA
 - Incorporating social perspectives in life-cycle studies
 - Utilizing cost-benefit analyses, techno-economic analyses, and/or energy footprint analyses.

Guest Editor

Prof. Dr. Lisa Colosi-Peterson

Department of Engineering Systems and Environment, University of Virginia, Charlottesville, VA, USA

Deadline for manuscript submissions

closed (31 March 2020)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/24477

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)