



energies



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State-of-the-Art Energy Related Technologies in Canada 2021-2022

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Deadline for manuscript submissions:

closed (20 February 2023)

Message from the Guest Editors

The energy sector represents over 10% of Canada's GDP. Canada is the sixth largest energy producer, the fourth largest net exporter, and the eighth largest consumer. Over USD 1 billion was spent on energy research, development, and deployment by governments in 2018–19.

Practically all primary energy sources contribute to Canada's portfolio, with a significant increase of renewable energies in recent years. In addition to GHG reduction requirements, technologies developed in Canada must face specific challenges, a few of them being:

- Huge territory with multiple distributed production and consumption sites
- Reduce environmental impacts of oil and gas production
- Technology adaptation to cold climatic conditions
- Integration and management of vast quantities of variable and intermittent renewable energy sources
- Transport electrification
- Improve energy efficiency, particularly heating and cooling

In this Special Issue, we are inviting R&D contributions that address energy issues, particularly those adapted for the Canadian context.



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Special Issue



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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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