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Deep Decarbonization of Energy Systems with Hybrid Renewable Energy Integration

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Message from the Guest Editors

Dear Colleagues,

This Special Issue will mainly focus on the topic of energy system modelling and its main challenges:

- Comparison of energy system frameworks, models, and scenario results as a means to improve transparency of energy system methods and identify must haves and must avoids in future energy systems.
- Analysis of the impacts of different levels of resolution (in time, space, techno-economic details, and sector-coupling) on the accuracy of final results in energy system modelling and analysis of the increasing computation effort.
- Energy system modelling and planning at different scales: district, municipality, province, region, national, continental levels.
- Energy system modelling techniques adopted for energy communities case studies.
- Analysis of uncertainty in energy system modelling.
- How to quantify and consider security of supply in energy system modelling?
- How to include social aspects in energy system modelling?
- How to reduce the gap between modelling and policy making? Which available techniques are working for this purpose?
- Energy policies and strategies for achieving decarbonization targets and differentiate



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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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