Special Issue

Simulation Modelling and Analysis of a Renewable Energy System, 3rd Edition

Message from the Guest Editors

As environmental pollution continues to threaten global civilization, fossil fuel consumption remains one of the leading causes of pollution. Renewable energy sources, such as biofuels, solar power, wind energy, and geothermal energy, are seen as vital solutions to mitigate this issue. However, the high costs of implementation present significant challenges to their widespread adoption. This Special Issue of *Energies* seeks to explore the application of simulation modelling techniques to optimize renewable energy systems. By utilizing models such as discrete event simulation, system dynamics, agent-based simulation, and artificial intelligence, we aim to evaluate the performance, energy generation capacity, and economic viability of renewable energy systems in real-world scenarios. We invite original research papers and critical reviews that apply simulation modelling methods to improve renewable energy management. Contributions should focus on innovative approaches for assessing renewable energy systems' efficiency, practicality, and financial benefits. Submit your manuscript now and contribute to shaping the future of sustainable energy solutions!

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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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