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Low-Carbon Integrated Energy System with Renewable Generations: Characterization, Modelling, and Optimization

Guest Editors:

Dr. Yuhan Huang

Dr. Wenting Lin

Dr. Xuehui Wang

Dr. Jianye Chen

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Message from the Guest Editors

Dear Colleagues,

Carbon emission reduction is critical to achieving sustainable economic development. The traditional energy system, with deep integrations of advanced information and energy-conversion technologies, has evolved into an integrated energy system in which multiple energy sources interact and respond to each other. It can achieve a complementary and mutually beneficial operation mode, leading to a significant reduction in carbon emissions. Therefore, it is necessary to conduct detailed modeling and optimization research on integrated energy systems with renewable generations. Specific themes of this Special Issue include but are not limited to:

- Low-carbon economic dispatch for integrated energy systems with renewable generations.
- Carbon-tracking and carbon-migration mechanisms for integrated energy systems with renewable generations.
- Environmental assessment indicators for integrated energy systems with renewable generations.
- Distributed optimization method for the low-carbon operation of the integrated energy system with renewable generations.
- Optimization of the integrated energy system based on artificial intelligence with renewable generations.

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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

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Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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