

Special Issue

Low Carbon Energy Generation and Utilization Technologies

Message from the Guest Editors

With the continued growth in global energy demand and the intensification of the climate change problem caused by excessive CO₂ emissions, the development of low-carbon energy technologies has become an important global consensus. Low-carbon energy technologies refer to reducing fossil fuel consumption and CO₂ emissions in all aspects of energy production, transmission, utilization, and consumption, such as the development and utilization of new and renewable sources of energy, the efficient use of fossil energy sources, and carbon capture, utilization, and storage (CCUS). The research and development of new, efficient, clean, and economical energy technologies can effectively reduce fossil fuel consumption and mitigate climate change, which is an important way to solve global environmental problems and is also of great significance in promoting regional economic development. This Special Issue will exchange knowledge on the development of innovative devices, emerging technologies, system optimizations, practical implementations, and state-of-the-art analyses and findings in the area of “low carbon energy generation and utilization technologies”.

Guest Editors

Dr. Weiqi Li

Department of Energy and Power Engineering, Tsinghua University, Beijing 100084, China

Dr. Lingying Pan

Business School, University of Shanghai for Science and Technology, Shanghai 200093, China

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

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

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

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