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Integration of Renewable Energy in Energy Systems: Perspectives on Investment, Technology, and Policy

Guest Editors:

Dr. Jinhua Xu

Institutes of Science and Development, Chinese Academy of Sciences, Beijing 100190, China

Dr. Hongguang Nie

School of Economics and Management, Changchun University of Science and Technology, Changchun 130022, China

Dr. Bowen Yi

School of Economics & Management, Beihang University, Beijing 100191, China

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Message from the Guest Editors

Integration of renewable energy in energy systems is the key measure to meet the climate challenge, and it plays vital role in the energy transition of energy consumption from fossil energy to renewable energies. Currently, the integration of renewable energy is facing new challenges, associated with the renewable energy access capacity to power grid, electrical energy storage, renewable energy technology innovation, and policy designs involving with market-based mechanism and administrative policies. Therefore, in the transition, renewable energy investment, technology innovation and related policies are key driving forces. The research topics in this Special Issue focus on: (i) investment and policy recommendations of renewable energy, inter-regional transmission lines and charging infrastructures, (ii) market mechanism and policy designs of improving the renewable energy access capacity to power grid, (iii) technology innovation and future cost associate with the renewable energies, electrical energy storage and electric vehicles, (iv) resource potential of renewable energies and underlying development goals of renewable energy power in energy systems.



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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

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