Special Issue

Circular Economy in Low-Carbon Transition: Current Status and Future Prospects

Message from the Guest Editors

Energy is essential for economic activities and sustainable development. The current energy system is still dominated by fossil fuels and needs a rapid low-carbon transition to achieve the global warming target set by the Paris Agreement in 2015. A circular economy can contribute to the low-carbon transition of the energy system by reducing waste and improving resource efficiency. In a circular economy, energy can be saved by extending the life of existing resources and products; energy can be decarbonized by developing renewable energy with circular practices; and energy can be recovered from waste. The circular economy principles are also useful to design and implement sustainable low-carbon or even net-zero energy systems. Hence, this Special Issue will consist of innovative and high-quality studies on the current status and future prospects of circular economy in the low-carbon transition of the energy system.

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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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