

Call for Papers

Zero Carbon Energy Systems

Important Dates

Full Paper Submission: November 30, 2021

Final Decision Notification: March 31, 2022

Publication of Special Issue: June 30, 2022

The Paris Agreement has been adopted by about 200 nations across the world, and its long-term temperature goal is to keep the increase in global average temperature to well below 2 °C above pre-industrial levels; and to pursue efforts to limit the increase to 1.5 °C, recognizing that this would substantially reduce the risks and impacts of climate change. In this context, many countries and territories in the world, such as China, European Union, Japan and the United Kingdom, have declared their net zero emissions targets and plans.

The energy sector is critical to achieving the climate goal and net zero targets, with many significant challenges remaining. Energy systems include multiple energy carriers, multiple temporal and spatial resolutions and multiple players, and at the same time are closely related to and coupled with other sectors such as water, transportation, agriculture and industry, thus being very complicated. Zero carbon transition of energy systems requires innovation in various aspects, such as policy, markets, planning and operation, which all remain to be further explored. Therefore, this special section solicits original and novel research on zero carbon energy systems, as well as the review of state-of-the-art academic research, industrial practice and international experiences.

Topics of interest include, but are not limited to

- Policy and regulations on zero-carbon transition of energy systems,
- Carbon and energy markets facilitating zero-carbon energy systems,
- Simulation and analysis of zero-carbon energy systems
- Planning and design of zero-carbon energy systems,
- Operation and control of zero-carbon energy systems,
- Artificial intelligence, big data, ICT and cyber security supporting cyber-physical zero-carbon energy systems, and
- Interaction between zero-carbon energy systems with other sectors such as water, transportation, agriculture and industry.

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