

## Special Issue on “Platform Technology for Heterogeneous Energy Systems”

### Important Dates

**Full Paper Submission: August 30, 2023**

**Final Decision Notification: September 30, 2023**

**Publication of Special Issue: November 30, 2023**

The energy systems are evolving into heterogeneous ones with complicated integration of sources, networks, loads, and storages towards a decarbonized future of human beings. A heterogeneous energy system (HES) refers to a networked physical system composed of interconnected devices for supplying, transmitting, storing or converting energy in or between different forms, in which the electric power sector functions as the main body. An HES is highly nonlinear with multiple dynamic modes, which brings technical challenges to the operation of such a system. The platform technology, including the fundamental hardware and application software for system monitoring and control, underlies the HESs to meet the energy demand of end-users in an economic, secure, and reliable manner, environmentally and friendly. However, the current automation platforms for energy systems do not have extendible architecture and generic computational software, and they are not suitable for managing the next generation of HESs.

To promote the theoretical and practical study in the underlying platform technology for HES management, the editorial board of the CSEE Journal of Power and Energy Systems (CSEE JPES) invites potential authors to submit articles for review and publication in the special issue of CSEE on Platform Technology for Heterogeneous Energy Systems. Topics of interest include, but are not limited to:

- Agent-based software structure and development of HES management platforms;
- Distributed artificial intelligence and its application in HES;
- Devices and methods for monitoring and control of HES;
- Communication technology for HES;
- Data management for HES;
- Design and development of management platforms for HES;
- Application of big data in HES;
- Modeling and simulation methods for HES;
- Planning, operation, and energy market for HES;
- Decarbonization of HES.

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