

Special Issue

Advances in Integrated Energy Systems Design, Control and Optimization

Message from the Guest Editors

In the face of climate change and resource scarcity, energy supply systems are on the verge of a major transformation, which mainly includes the introduction of new components and their integration into the existing infrastructures, new network configurations and reliable topologies, optimal design and novel operation schemes, and new incentives and business models. This revolution is affecting the current paradigm and demanding that energy systems be integrated into multi-carrier energy hubs. It is greatly increasing the interactions between today's energy systems at various scales and future intelligent energy systems. It also increases the need for the integration of energy storage options into the energy mix. Moreover, this transformation is accommodating active participation of end-users as responsive prosumers at different scales. This Special Issue will cover these promising and dynamic areas of research and development, and will allow gathering of contributions in design, control and optimization of integrated energy systems.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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