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Advanced Energy Systems Planning and Scheduling in Energy Markets: The Role of Flexibility for the Energy Transition

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

The global energy market is transitioning away from fossil fuel-based energy production and consumption systems, such as oil, coal, and natural gas, to renewable energy sources, including solar and wind. Decarbonization of the energy system necessitates immediate global action, and although a global energy transition is underway, additional interventions are required to minimize greenhouse gas emissions and reduce climate change's impacts.

The main scope of this Special Issue is to develop new optimization approaches and methodological frameworks for advanced energy systems planning and scheduling in energy markets, putting particular emphasis on the flexibility service providers. State-of-the-art works, in combination with innovative case studies, are invited. Multidisciplinary research and cutting-edge approaches are welcomed to address the challenges posed by energy systems and markets at various time scales, from the very short to the very long term.

Dr. Nikolaos E. Koltsaklis Guest Editor











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Message from the Editor-in-Chief

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