



Operation, Regulation and Planning of Power and Natural Gas Systems

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Deadline for manuscript
submissions:

closed (31 May 2020)

Message from the Guest Editors

Dear Colleagues,

Worldwide, electricity systems are evolving to adapt to a low-carbon economy, in which more and more renewable energy resources are being integrated. These changes create a need for new methods, tools, and approaches to deal with the operation and planning of electricity systems. On the other hand, new regulations must be developed in order to deal with a wide integration of renewable and distributed energy resources, both from a generation and a network (transmission and distribution) perspective.

Furthermore, the natural gas sector is going through a significant transformation, related mainly both to technological advances and strategic policy decisions. While there is a great uncertainty in the future of natural gas within the global energy matrix, it is clear that it will play a major role during the next few years as a bridge fuel towards a decarbonized economy.

This Special Issue, therefore, seeks to contribute to the energy transformation agenda through original contributions focused on both power and natural gas systems. We invite papers on innovative operation and planning methods, as well as papers on regulation of both energy systems.





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Message from the Editor-in-Chief

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