

## Special Issue

# The Development of Energy Systems: Sustainability, Intelligence and Optimization

### Message from the Guest Editors

The fight against global warming accelerates the level of renewable and carbon-free energy production, which promotes the use of renewable solutions in the energy mix. The intermittent nature of renewable energies requires the ability to manage the optimization between production and demand in real-time. Electricity storage can help solve the problem of intermittency. However, the need for energy storage requires the rethinking of electrical networks. Solutions will vary, depending on whether it is possible to compensate for intermittency by finding electricity without distance constraints, or to envisage a decentralized system in which energy must be produced locally and with less impact on the environment. Energy storage technology provides a solution for this. Compared to large electrical grids, small-scale decentralized installations with diverse storage technologies contribute to the development of energy systems. This Special Issue focuses on the broad topic of energy system development. It will include articles that target sustainable solutions incorporating, in whole or in part, storage technologies or renewable sources for decarbonized energy production.

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### Guest Editors

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### Deadline for manuscript submissions

closed (13 February 2024)



## Sustainability

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