

Spatial and Temporal Modelling of Renewable Energy Systems

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Message from the Collection Editors

This topical collection addresses the spatial and temporal modelling of renewable energy systems, both in a prospective as well as in a retrospective manner. Therefore, contributions that model the characteristics of future renewable energy systems are equally welcome as contributions which assess the characteristics of the past performance and characteristics of renewable energies. Papers may reach purely climate-based assessments of simulated renewable generation time series to full energy system models used to better understand energy systems with high shares of renewables.

Studies may, for instance

- Improve our understanding of how climate data can be used to model renewables
- Show the spatial and temporal variability of renewable energy sources
- Assess the complementarity of different renewable energy sources or locations
- Derive land availability scenarios for renewable energies, based on climatic, technical, economic, or social criteria
- Assess past spatial deployment patterns of renewables
- Assess past impacts on land cover and land use change, including impacts on biodiversity and other environmental indicators



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Message from the Editor-in-Chief

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