Special Issue

Wind Turbine and Wind Farm Flows

Message from the Guest Editor

The growth of the worldwide energy demand and the impact that human activities have on the current and future global climate are challenges and constraints that need to be taken into account nowadays. Renewable energy sources are viable options that provide electricity with a limited carbon footprint and, therefore, have a key role in the energy transition process worldwide. The exploitation of the wind resource, in particular, has played a leading role in many countries where the wind blows sufficiently, leading to both onshore and offshore installations. The aim of this research effort is to improve the understanding of farm aerodynamics to maximize the power production at every time and throughout the park. This goal can be tackled by means of experiments, numerical simulations, and theoretical models. This Special Issue aims to collect cutting-edge research works to update the current understanding of wind farms, how they extract power from the atmosphere and interact with it, and how they can operate in different configurations, such as offshore floating turbines.

Guest Editor

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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