

Special Issue

Fluid Mechanics and Turbulence in Wind Farms

Message from the Guest Editor

We invite submissions to a Special Issue of the journal *Energies* on the topic of “Fluid Mechanics and Turbulence in Wind Farms”. For this Special Issue, we would like to encourage original contributions regarding recent developments on and results relating to field measurements, wind tunnel experiments, analytical and engineering wind farm models, and simulations of wind farms. Potential topics include, but are not limited to, the following: wind farm performance, LiDAR and SCADA measurements, wind tunnel measurements, wake effects, effects of thermal stability conditions of the boundary layer (stable and unstable conditions), Coriolis effects, diurnal cycle, gravity waves, effects of wind-wave interactions, wind farm control strategies, wind farm frequency regulation, complex terrain effects, effects of wind farms on meso-scale weather phenomena, farm-to-farm interactions, comparison studies, and wind farm performance forecasting.

Guest Editor

Dr. Richard Stevens

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Deadline for manuscript submissions

closed (30 April 2021)



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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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