

## Special Issue

# Advances in Aerodynamic Innovations for Wind Turbines and Sustainable Power Generation

### Message from the Guest Editor

This Special Issue aims to share research in aerodynamic optimization of wind turbines and wind energy systems. We invite papers addressing the following topics:

- Aerodynamic optimisation for wind turbine blade design;
- CFD application in wind turbine design;
- Smart blade technology and wind speed distribution;
- Wind turbine aerodynamic noise;
- Wind focusing and augmented wind turbine;
- Site assessment and wind distribution;
- Effect of wind turbulence on wind farm layout and efficiency;
- Effect of wind speed distribution on turbine design;
- Aeroelastic effects and wind turbine control;
- Aerodynamic improvements through blade surface texturing;
- Aerodynamic optimization of vertical-axis wind turbines;
- Wind turbine wake and interactions;
- Floating wind turbines;
- Aerodynamic design for wind energy systems.

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### Guest Editor

Dr. Essam F. Abo-Serie  
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### Deadline for manuscript submissions

closed (20 November 2025)



## Energies

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## About the Journal

### 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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### Editor-in-Chief

Prof. Dr. Enrico Sciubba

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