

Special Issue

Advances in Wind Turbine Energy Conversion Systems

Message from the Guest Editors

This Special Issue of *Processes* on “Advances in Wind Turbine Energy Conversion Systems” focuses on challenging current state-of-the-art wind energy in light of these drastic changes. Given that the future of energy systems will be dominated by cheap renewables, how can wind turbines be used differently, conceptualized differently, or operated more flexibly than today? Contributions on the following topics are invited:

- Direct connection of wind energy to chemical processes, e.g., feasibility, controllability, and techno-economic optimization
- Alternative drivetrain concepts, e.g., gearboxes and transmissions, alternative generator types, alternative power-electronic concepts, hydraulic drives, fluid power transmissions
- Alternative power conversion, e.g., power-to-gas, power-to-products, local buffering, integration of storage solutions
- Technological advances to further increase the size of wind turbines

Guest Editors

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Deadline for manuscript submissions

closed (10 April 2024)



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