



## Offshore Wind Farms and Climate Change

Guest Editor:

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Deadline for manuscript  
submissions:

**closed (10 April 2024)**

### Message from the Guest Editor

Dear Colleagues,

Offshore wind has been expanding rapidly in the past decade, with over 50 GW of global installed capacity as of 2022, corresponding to a growth by a factor of 10 in 10 years. Offshore wind farms tend to have taller and larger turbines, higher installed capacity, and larger spacing and areal extent than onshore. The wakes of offshore wind farms can travel several tens of kilometers downwind horizontally while also expanding downward to the ocean surface and upward to the upper parts of the marine boundary layer and beyond. Although the direct impacts of offshore wind farms on the surrounding environment and on the climate are not expected to be large on average, especially when compared with the long-term climate and health indirect benefits of wind energy as an alternative to fossil and fissile fuels, undesirable consequences may occur locally and/or occasionally, such as changes in turbulence, ocean surface stress, etc.,[...]

For further reading, please follow the link to the special issue Website at:

[https://www.mdpi.com/journal/jmse/special\\_issues/3M2HP84MH](https://www.mdpi.com/journal/jmse/special_issues/3M2HP84MH)

Prof. Dr. Cristina L. Archer

*Guest Editor*





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## Message from the Editor-in-Chief

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