



Advancements in Renewable Energy: Construction and Maintenance of Offshore Wind Farms

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Message from the Guest Editors

Energy demand and global climate change have become two of the most significant challenges to human society. This situation forces researchers to develop sustainable and renewable energy resources. Wind energy, a clean, plentiful, and renewable alternative, has promoted a rapid increase in both the installed capacity and the number of wind turbines in recent years. As wind farms move into deeper seas, there continue to be challenges to overcome during construction and maintenance.

This Special Edition of JMSE will focus on the state of practice and identify current, emerging, and future geotechnical and structural challenges associated with the construction and maintenance of wind farms. The topics are expected to fall into the following areas:

- Installation—monitoring, instrumentation, risk management, protections, and case studies;
- Analysis and design—foundation concepts, design optimization, and standards;
- Lifetime performance—monitoring, behaviors, digital twins, repair, and disposal.





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Message from the Editor-in-Chief

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