



Sustainable Use of Marine Resources: Green Construction, Safe Operation and Environmental Impact of Offshore Projects

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Message from the Guest Editors

This Special Issue focuses on offshore engineering issues involved in the sustainable use of marine resources. The exploitation of marine resources depends on the construction of infrastructure, meaning that the construction, operation and impact of offshore projects on marine environments will affect the sustainable utilization of marine resources.

The resourceful use of marine materials instead of traditional building materials will be helpful in reducing project costs, saving energy and reducing carbon emissions. Similarly, the research and development of new energy conversion systems can improve the utilization rate of marine energy. The marine environment is complex and changeable, long-term corrosion and extreme weather will inevitably lead to project damage, resulting in energy supply interruption, energy leakage, sea area pollution and other problems. Therefore, systematic research on these issues is the key to avoiding disasters. In addition, the application of emerging digital technology to offshore engineering can effectively improve the level of intelligent marine resource utilization.





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