



# Offshore Wind Farms: Technologies, Design and Operation (Woodhead Publishing Series in Energy)

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## Offshore Wind Farms: Technologies, Design and Operation (Woodhead Publishing Series in Energy) From Woodhead Publishing

Offshore Wind Farms: Technologies, Design and Operation provides the latest information on offshore wind energy, one of Europe's most promising and quickly maturing industries, and a potentially huge untapped renewable energy source which could contribute significantly towards EU 20-20-20 renewable energy generation targets.

It has been estimated that by 2030 Europe could have 150GW of offshore wind energy capacity, meeting 14% of our power demand. *Offshore Wind Farms: Technologies, Design and Operation* provides a comprehensive overview of the emerging technologies, design, and operation of offshore wind farms.

Part One introduces offshore wind energy as well as offshore wind turbine siting with expert analysis of economics, wind resources, and remote sensing technologies. The second section provides an overview of offshore wind turbine materials and design, while part three outlines the integration of wind farms into power grids with insights to cabling and energy storage. The final section of the book details the installation and operation of offshore wind farms with chapters on condition monitoring and health and safety, amongst others.

- Provides an in-depth, multi-contributor, comprehensive overview of offshore technologies, including design, monitoring, and operation
- Edited by respected and leading experts in the field, with experience in both academia and industry
- Covers a highly relevant and important topic given the great potential of offshore wind power in contributing significantly to EU 20-20-20 renewable energy targets

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#### **About the Author**

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Li Ran joined the University of Warwick as a Professor in Power Electronics Systems in 2012 and also acts as a Deputy Director for the State Key Laboratory in Power Transmission Equipment and System Security of China.

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