



OFFSHORE WIND TRANSMISSION REPORT 2021

Driven by the common goal of achieving low-carbon economies, governments across the globe have set ambitious targets for offshore wind energy. Established markets such as the UK, Germany and China have further expanded their offshore wind goals. New markets such as the US and Japan have launched supportive policy frameworks and funding programmes to accelerate the development of their offshore wind industries. Countries such as Australia, Vietnam and Greece are also keen to capture offshore wind opportunities.

However, the challenge of developing an adequate and robust offshore grid infrastructure still remains. Offshore wind integration and transmission needs have taken a center stage. New technologies and innovative solutions for interconnections have been proposed as projects become larger and complex. Global Transmission Research has released the second edition of the Offshore Wind Transmission Report in August 2021. The report analyses the market size and opportunity for offshore wind transmission across the globe. The report provides an overview of the recent policy developments and mandates for offshore wind development, examine the costs and present the various models and technology options for developing offshore wind transmission infrastructure. It provides information on existing and planned offshore transmission projects and on the key technology players in the industry.

The report has four parts.

Part 1 is the Executive Summary.

Part 2 of the report provides an analysis of the global offshore wind transmission sector. It has nine distinct sections.

- Offshore wind developments
- Market size and opportunity
- Offshore transmission development routes
- Offshore wind transmission costs and investments
- Financing offshore wind
- Offshore wind transmission technology
- Regional offshore initiatives
- Key technology players
- List of offshore wind transmission projects

Part 3 of the report profiles 30 countries where offshore wind projects already exists or planned in the near future.

Each country's profile provides data and analysis on:

- Industry structure
- Recent policy and regulatory developments
- Existing offshore wind generation and transmission capacity
- Planned or proposed offshore wind generation and transmission capacity
- Existing OWT projects (developer, capacity, technology, investment and key contractors)
- Upcoming and planned OWT projects (developer, capacity, technology, expected investment and key contractors)

Note: The data on various parameters for existing and upcoming/planned projects will be provided wherever such details are available

Part 4 of the report is the appendix. It includes a note on sources and methodology, key global and regional industry associations, and list of acronyms.

This report is indispensable for any organisation interested in the offshore wind energy industry - utilities, developers, system operators, equipment manufacturers and suppliers, EPC contractors, service and technology providers, investors/lenders, research institutes, industry consultants, regulatory agencies, development institutions, etc.

The report is available in a Power Point presentation (converted to PDF). It is priced at USD4,000.

For further inquiries, please contact:

For further inquiries, please contact:

Americas

Yasmeen Chopra

Mobile: +1 905 228 6419

E-mail: yasmeen.chopra@globaltransmission.info

Rest of the world

Shruti Kumar

Mobile: +91 8447528984

E-mail: shruti.kumar@globaltransmission.info

Website: www.globaltransmission.info

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Sources and Methodology

Global Transmission Research's industry analysts have utilised various primary and secondary research sources in preparing this report. Extensive secondary research has been conducted by our analysts and research associates. These secondary sources include, but are not limited to, websites of OSW developers; websites of regulators and government agencies; investor presentations; analyst reports; government documents; websites of relevant industry associations; internal and external proprietary databases; news articles; and press reports.

Primary research includes interviews conducted to gain insights into market trends, and cost and investment analysis. While estimating costs and investment figures, we have also researched the available industry literature and reports.

These primary and secondary research sources, combined with our industry expertise, have been synthesised into qualitative and quantitative analysis which has been presented in this report. Wherever applicable, all research sources are appropriately cited within this report.

Please note that this report does not take into account any possible impact of the COVID-19 situation on the investment analysis. It very likely that the industry will see delays and cost overruns. Therefore, we have taken a longer-term analysis period of 2021-2030.

Great care has been taken to ensure that all analysis is well supported by facts. Where facts were not available and assumptions were made, we have explained our assumptions and our methods of estimation.

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Global Transmission Research is a leading provider of information and analysis on the global electricity transmission industry. We publish newsletters and reports and organise conferences on crucial issues and topical themes relevant to the transmission industry. We publish the Global Transmission Report (a monthly newsletter) and Global Transmission Weekly (a weekly update). We also operate the website www.globaltransmission.info. These products and services provide information on all the key developments, trends and issues in the sector.

We also publish industry-focused research studies such as the Global Electricity Transmission Report, the Global Transmission Equipment Market Report, the Global Transmission Investment Report and the Global Electricity TSO Profiles and Benchmarking Report. We have organised conferences in the US, Europe, Southeast Asia, Africa and Brazil which received a strong response from speakers and delegates alike.

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Contact Details

Americas

Yasmeen Chopra
Mobile: +1 905 228 6419
E-mail: Yasmeen.Chopra@globaltransmission.info

Rest of the world

Shruti Kumar
Mobile: +91 8447528984
E-mail: shruti.kumar@globaltransmission.info

Website: www.globaltransmission.info