

Markets for Offshore Wind Power in Europe 2010-20

Led by European utilities, offshore wind has emerged from a niche market to one of the largest opportunities for growth in the global wind industry

The global offshore wind market is expected to show strong growth to 2020 with Europe forecast to be the global leader. Markets for Offshore Wind Power in Europe to 2020, provides strategic market intelligence and long-term market forecasts by region and country. Future planning issues, policy targets and investment opportunities are also analysed nationally and by region to complete one of the most detailed report on the European offshore market ever assembled.

REPORT CONTENTS

List of tables

List of figures

1 Executive summary

2 European overview

•Introduction

•Policy and targets

- EU policy and targets
- European Wind Energy Association (EWEA) policy and targets

•WPI forecasts for offshore

- WPI forecast of installed capacity - Europe 2010-20
- WPI forecast of investment in installed capacity - Europe 2010-20
- Types of investment

•Offshore developers

•Offshore turbines for offshore market

- Blade suppliers
- Generator suppliers
- Gearbox suppliers
- Foundation suppliers
- Offshore cable suppliers
- Special steel suppliers

•Major vessels serving the market

•Operation and maintenance

3 Germany

•Existing Capacity and forecasts

- Existing projects
- WPI Forecast of installed capacity, 2010-20
- WPI Forecast of investment in installed capacity, 2010-20

•Policy and targets

- Offshore wind energy target for 2020
 - Government targets
 - Wind energy association targets
- Financial
 - Financial mechanisms (tariffs, certificate, prices)
 - Incentives
 - Available grants
- Offshore Wind Energy Planning
 - National offshore plans, existing and expected
 - Planning process; major steps and issues (e.g. nature parks)
- Grid planning issues offshore and onshore

•Wind industry

- Technology
- Ports

4 UK

•Existing Capacity and forecasts

- Existing projects
- WPI Forecast of installed capacity, 2010-20
- WPI Forecast of investment in installed capacity, 2010-20

•Policy and targets

- Offshore wind energy target for 2020
 - Government targets
 - Wind energy association targets

- Financial

- Financial mechanisms (tariffs, certificate, prices)
 - Incentives
 - Available grants
- Offshore Wind Energy Planning
- National offshore plans, existing and expected
 - Planning process; major steps and issues (e.g. nature parks)

- Grid planning issues offshore and onshore

•Wind industry

- Technology
- Ports

5 Sweden

•Existing Capacity and forecasts

- Existing projects
- WPI Forecast of installed capacity, 2010-20
- WPI Forecast of investment in installed capacity, 2010-20

•Policy and targets

- Offshore wind energy target for 2020
 - Government targets
 - Wind energy association targets

- Financial

- Financial mechanisms (tariffs, certificate, prices)
 - Incentives
 - Available grants
- Offshore Wind Energy Planning
- National offshore plans, existing and expected
 - Planning process; major steps and issues (e.g. nature parks)

- Grid planning issues offshore and onshore

•Wind industry

- Technology
- Ports

6 Netherlands

•Existing Capacity and forecasts

- Existing projects
- WPI Forecast of installed capacity, 2010-20
- WPI Forecast of investment in installed capacity, 2010-20

•Policy and targets

- Offshore wind energy target for 2020
 - Government targets
 - Wind energy association targets

- Financial

- Financial mechanisms (tariffs, certificate, prices)
 - Incentives
 - Available grants
- Offshore Wind Energy Planning
- National offshore plans, existing and expected
 - Planning process; major steps and issues (e.g. nature parks)

- Grid planning issues offshore and onshore

•Wind industry

- Technology
- Ports

7 Ireland

•Existing Capacity and forecasts

- Existing projects
- WPI Forecast of installed capacity, 2010-20
- WPI Forecast of investment in installed capacity, 2010-20

•Policy and targets

- Offshore wind energy target for 2020
 - Government targets
 - Wind energy association targets

- Financial

- Financial mechanisms (tariffs, certificate, prices)
 - Incentives
 - Available grants
- Offshore Wind Energy Planning
- National offshore plans, existing and expected
 - Planning process; major steps and issues (e.g. nature parks)

- Grid planning issues offshore and onshore

•Wind industry

- Technology
- Ports

8 Denmark

•Existing Capacity and forecasts

- Existing projects
- WPI Forecast of installed capacity, 2010-20
- WPI Forecast of investment in installed capacity, 2010-20

•Policy and targets

- Offshore wind energy target for 2020
 - Government targets
 - Wind energy association targets

- Financial

- Financial mechanisms (tariffs, certificate, prices)
 - Incentives
 - Available grants
- Offshore Wind Energy Planning
- National offshore plans, existing and expected
 - Planning process; major steps and issues (e.g. nature parks)

- Grid planning issues offshore and onshore

•Wind industry

- Technology
- Ports

9 Norway

•Existing Capacity and forecasts

- Existing projects
- WPI Forecast of installed capacity, 2010-20
- WPI Forecast of investment in installed capacity, 2010-20

•Policy and targets

- Offshore wind energy target for 2020
 - Government targets
 - Wind energy association targets

- Financial

- Financial mechanisms (tariffs, certificate, prices)
 - Incentives
 - Available grants
- Offshore Wind Energy Planning
- National offshore plans, existing and expected
 - Planning process; major steps and issues (e.g. nature parks)

- Grid planning issues offshore and onshore

•Wind industry

- Technology
- Ports

10 Portugal

- Existing Capacity and forecasts
 - Existing projects
 - WPI Forecast of installed capacity, 2010-20
 - WPI Forecast of investment in installed capacity, 2010-20
- Policy and targets
 - Offshore wind energy target for 2020
 - Government targets
 - Wind energy association targets
 - Financial
 - Financial mechanisms (tariffs, certificate, prices)
 - Incentives
 - Available grants
 - Offshore Wind Energy Planning
 - National offshore plans, existing and expected
 - Planning process; major steps and issues (e.g. nature parks)
 - Grid planning issues offshore and onshore
- Wind industry
 - Technology
 - Ports

11 Belgium

- Existing Capacity and forecasts
 - Existing projects
 - WPI Forecast of installed capacity, 2010-20
 - WPI Forecast of investment in installed capacity, 2010-20
- Policy and targets
 - Offshore wind energy target for 2020
 - Government targets
 - Wind energy association targets
 - Financial
 - Financial mechanisms (tariffs, certificate, prices)
 - Incentives
 - Available grants
 - Offshore Wind Energy Planning
 - National offshore plans, existing and expected
 - Planning process; major steps and issues (e.g. nature parks)
 - Grid planning issues offshore and onshore
- Wind industry
 - Technology
 - Ports

12 Italy

- Existing Capacity and forecasts
 - Existing projects
 - WPI Forecast of installed capacity, 2010-20
 - WPI Forecast of investment in installed capacity, 2010-20
- Policy and targets
 - Offshore wind energy target for 2020
 - Government targets
 - Wind energy association targets
 - Financial
 - Financial mechanisms (tariffs, certificate, prices)
 - Incentives
 - Available grants
 - Offshore Wind Energy Planning
 - National offshore plans, existing and expected
 - Planning process; major steps and issues (e.g. nature parks)
 - Grid planning issues offshore and onshore
- Wind industry
 - Technology
 - Ports

13 Others

- Existing Capacity and forecasts
 - Existing projects
 - WPI Forecast of installed capacity, 2010-20
 - WPI Forecast of investment in installed capacity, 2010-20
- Policy and targets
 - Offshore wind energy target for 2020
 - Government targets
 - Wind energy association targets
 - Financial
 - Financial mechanisms (tariffs, certificate, prices)
 - Incentives
 - Available grants
 - Offshore Wind Energy Planning
 - National offshore plans, existing and expected
 - Planning process; major steps and issues (e.g. nature parks)
 - Grid planning issues offshore and onshore
- Wind industry
 - Technology
 - Ports

LIST OF TABLES AND FIGURES

- Forecast of installed offshore capacity around Europe 2010-20
- Forecast of investment in installed offshore capacity around Europe
- Forecast of investment in components and cables to shore around Europe to 2020
- Offshore developers with number of projects and total MW
- Offshore installations according to turbine type to 2020
- Manufacture markets share of offshore market 2010-20

Germany

- Existing offshore projects
- Existing offshore wind stations end 2009
- Estimated annual investment in wind station based on project pipeline
- Government Offshore Wind Energy Forecast to 2020
- BWE Offshore Wind Energy Forecast to 2020
- Offshore installations according to turbine type to 2020
- Manufacture market share of offshore installations

UK

- Existing offshore projects
- Existing offshore wind stations end 2009
- Estimated annual investment in wind station based on project pipeline
- Government Offshore Wind Energy Forecast to 2020
- Offshore installations according to turbine type to 2020
- Manufacture market share of offshore installations

Sweden

- Existing offshore projects
- Existing offshore wind stations end 2009
- Estimated annual investment in wind station based on project pipeline
- Government Offshore Wind Energy Forecast to 2020
- Offshore installations according to turbine type to 2020
- Manufacture market share of offshore installations

Ireland

- Existing offshore projects
- Existing offshore wind stations end 2009
- Estimated annual investment in wind station based on project pipeline
- Government Offshore Wind Energy Forecast to 2020
- Offshore installations according to turbine type to 2020
- Manufacture market share of offshore installations

Denmark

- Existing offshore projects
- Existing offshore wind stations end 2009
- Estimated annual investment in wind station based on project pipeline
- Government Offshore Wind Energy Forecast to 2020
- Offshore installations according to turbine type to 2020
- Manufacture market share of offshore installations

Norway

- Existing offshore projects
- Existing offshore wind stations end 2009
- Estimated annual investment in wind station based on project pipeline
- Government Offshore Wind Energy Forecast to 2020
- Offshore installations according to turbine type to 2020
- Manufacture market share of offshore installations

Portugal

- Existing offshore projects
- Existing offshore wind stations end 2009
- Estimated annual investment in wind station based on project pipeline
- Government Offshore Wind Energy Forecast to 2020
- Offshore installations according to turbine type to 2020
- Manufacture market share of offshore installations

Belgium

- Existing offshore projects
- Existing offshore wind stations end 2009
- Estimated annual investment in wind station based on project pipeline
- Government Offshore Wind Energy Forecast to 2020
- Offshore installations according to turbine type to 2020
- Manufacture market share of offshore installations

Italy

- Existing offshore projects
- Existing offshore wind stations end 2009
- Estimated annual investment in wind station based on project pipeline
- Government Offshore Wind Energy Forecast to 2020
- Offshore installations according to turbine type to 2020
- Manufacture market share of offshore installations

Others

- Existing offshore projects
- Existing offshore wind stations end 2009
- Estimated annual investment in wind station based on project pipeline
- Offshore installations according to turbine type to 2020
- Manufacture market share of offshore installations