

Interreg IVB North Sea Programme

POWER Cluster

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Business Work Package



This presentation concentrates on two key highlights but other achievements include:

- 6 business networking events organised resulting in more than 2300 new contacts and the award of new contracts.
- A Project Development Facility created to guide organisations through the European funding process.



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POWER cluster Mapergy: Putting your company on the map



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About POWER cluster Mapergy

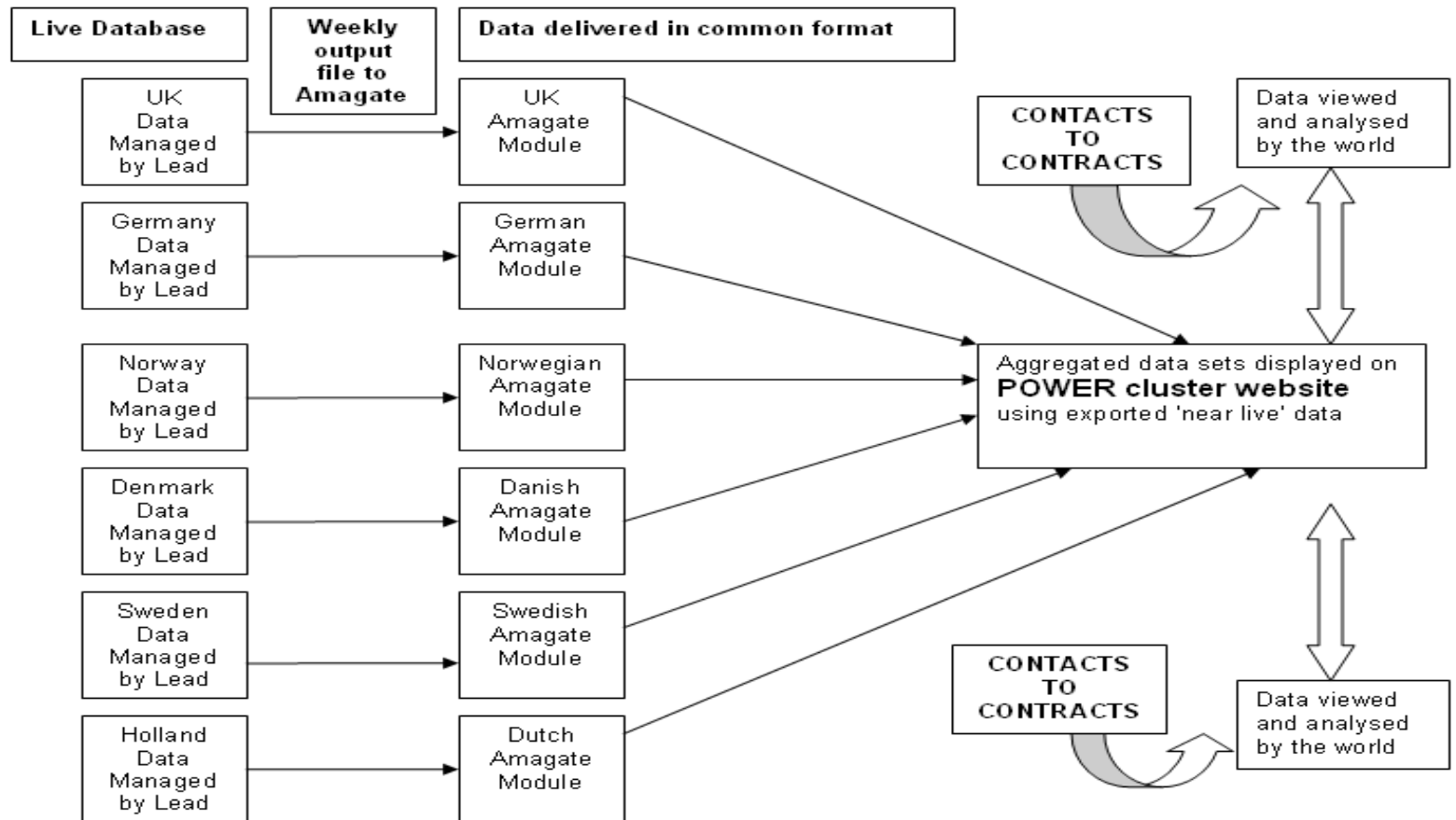


- Prior to POWER cluster Mapergy there was no single European platform for the supply chain
- The Offshore Wind cluster map shows the locations of companies involved in the offshore wind sector.
- Each company is classified under a common methodology devised by Douglas Westwood in 2009.
- Publically available information on each company is provided to promote European networking
- Launched with 500 companies there are now more than 700, an increase of more than 40%



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The Cluster mapping process



Main cluster mapping screen



POWER cluster

OFFSHORE WIND ENERGY

A NORTHERN EUROPE CLUSTER MAP FOR ORGANISATIONS INVOLVED IN THE OFFSHORE WIND SECTOR

Home About FAQ Join Main POWER cluster Website

Quick locator --- Quick locator --- Filters Category Role

Map showing the number of organizations in various Northern European countries:

Country	Number of Organizations
Iceland	0
United Kingdom	30
Ireland	0
Belgium	30
Netherlands	59
Germany	15
Denmark	285
Poland	0
Czech Rep	0
Slovakia	0
Austria	0
Sweden	2
Finland	2
Norway	15
Estonia	33
Latvia	2
Lithuania	0
Belarus	0
Ukraine	0
Russia	0

Search facility by role or category



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Quick locator --- Quick locator ---

Filters Category Role

- Consultant
- Design
- Engineering
- Installation
- Manufacture/Supply
- Operator
- Research and Development
- Service
- Support Organisation
- Training and Education

Map showing search results (4, 5, 8) across Northern Europe.

Quick locator for Regional clusters



A screenshot of the "OFFSHORE WIND ENERGY" quick locator website. The page has a dark blue header with the "POWER cluster" logo on the left and the title "OFFSHORE WIND ENERGY" in large, light blue letters. Below the title is the subtitle "A NORTHERN EUROPE CLUSTER MAP FOR ORGANISATIONS INVOLVED IN THE OFFSHORE WIND SECTOR". A navigation menu includes "Home", "About", "FAQ", "Join", and "Main POWER cluster Website". The main content area features a "Quick locator" dropdown menu set to "East Anglia" and "Filters" for "Category" and "Role". The central part of the page is a map of East Anglia, England, with numerous blue pushpin markers indicating the locations of various organizations. The map includes major roads like the M1, M6, M11, and A1(M), and various towns and cities. On the right side of the map, there are navigation controls for zooming in and out and a compass. At the bottom right of the map area, it says "Map data ©2010 Tele Atlas".

Company Information



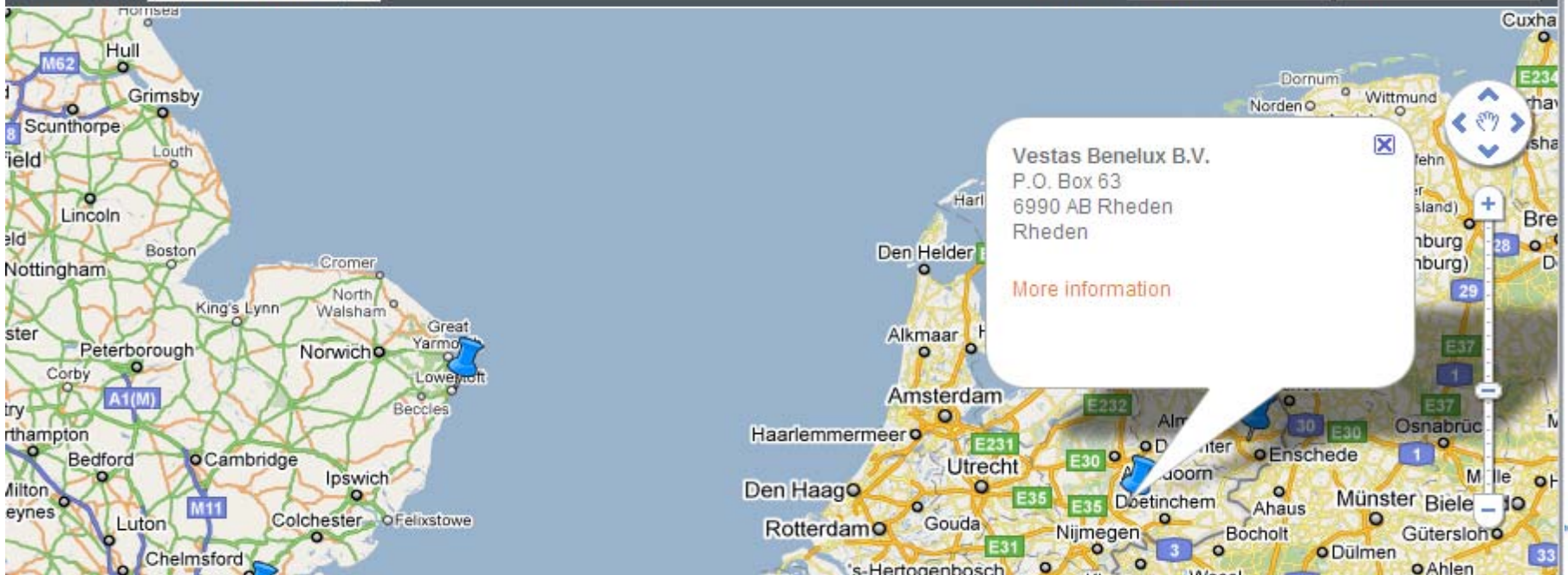
OFFSHORE WIND ENERGY

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[Home](#) [About](#) [FAQ](#) [Join](#) [Main POWER cluster Website](#)

Quick locator

Filters



Are you on the Map?



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OFFSHORE WIND ENERGY

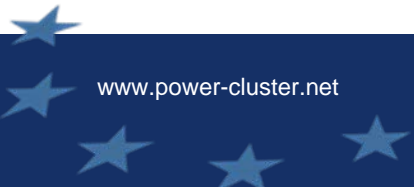
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Lithuania	2
Belarus	0
Ukraine	0

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Transnational Study



Overcoming challenges from the offshore wind industry and learning from the oil and gas industry



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www.power-cluster.net

The Northern European
competence network
for offshore wind energy

Background to the Study



The study was conducted by Natural Power and focused on two key areas:

1. Challenges facing the offshore wind industry.
2. What can be learned from the oil and gas industry.



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Context

Offshore wind energy must be considered in the context of the EU's wider energy policy, which has two principle objectives:

- Ensuring security of energy supplies
- Reducing greenhouse gas emissions

Offshore wind energy is one possible way of helping to achieve the objectives.



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Offshore wind must be competitive

- Offshore wind farms are only one of many possible methods of achieving policy objectives.
- Offshore wind farms have the potential to generate a significant proportion of the EU's energy.
- Power generated from offshore wind has no automatic right to be part of the EU's future energy mix.



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The challenge of reducing the cost of offshore wind

To make wind farms viable without support by:

- Adopting offshore methods, practices and procedures developed in the offshore oil and gas industry - particularly during installation
 - Locating wind farms in areas of high average wind speed
 - Designing turbines with low cut-in and high cut-out wind speeds
 - Using geographic diversity
 - Developing an interconnecting grid to reduce the periods when no wind energy is available
- The natural upward pressure on global energy prices, will make offshore wind more competitive.



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The offshore oil and gas industry can help



- Many of the engineering and operational principles which the offshore wind industry takes for granted have been developed in the oil and gas industry.
- There are key areas for the both offshore industries to collaborate.
- However, the oil and gas industry will also compete with the offshore wind industry for resources, especially in the period 2015 to 2020.



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Learning from the oil and gas industry



- Many oil and gas companies have transferred their operation and maintenance of offshore facilities to service companies via competitive tender.
- This has reduced their in-house engineering expertise, and their ability to control the technology, equipment and procedures. This was highlighted in the recent oil BP spill disaster.
- This strategy reduces cost but leads to situations where a company has liability but little control.
- Unfortunately some owners of wind farms are taking the same approach. This is a high risk strategy given the immaturity of the offshore wind industry.



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Learning from the oil and gas industry



- Major oil and gas companies have taken a collaborative approach to offshore technology. Rather than competing they have worked together to approach problems of working in the North Sea. This is particularly apparent in relation to safety systems.
- Conversely the offshore wind industry is still dominated by wind turbine manufacturers who tend to be secretive and unwilling to share their experience in installing and operating offshore wind turbines. A more open approach may help reduce risks and the perception of risk from an investor's point of view.



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Further information



Direct link to POWER cluster Mapergy:
mapping.power-cluster.net

Or access via a link on the POWER cluster
website: www.power-cluster.net

Transnational Study available through the
POWER cluster website.



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