



Baltic
InteGrid

Integrated Baltic Offshore
Wind Electricity Grid Development

Public Acceptance for OWE in Germany

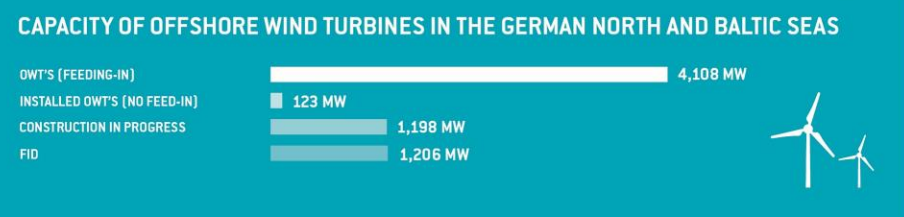
Thilo Krupp

Warsaw, 28.02.2017

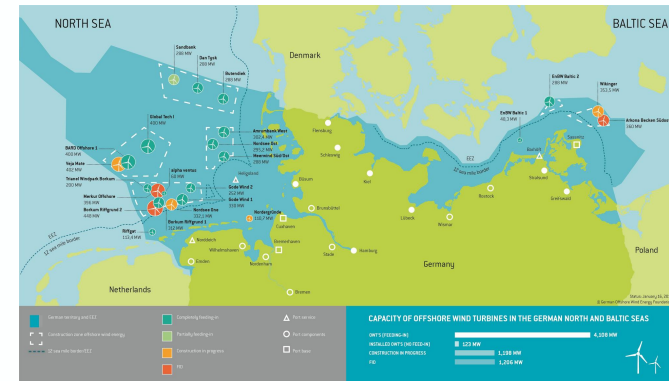
- Visual and Astetic Impacts
- Impacts on Nature
- Information, Trust and Transparency



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- Under favourable viewing conditions OFW are visible up to around 40 km.
- Several elements have an influence on the produced visual effect. For example:
 - The site and size of wind farm area;
 - The wind turbines: size, materials and colors;
 - The layout and spacing of wind farms and associated structures;
 - Navigational visibility (e.g. yellow painting), markings and lights;
 - The transportation and maintenance boats;
- There is a total of 4108 MW offshore wind capacity in Germany.
- In Germany, OFW are manly located in the German EEZ. Only about 160 MW are installed within the 12 mile zone.



Thresholds

- < 13 km possible major visual effects
- 13-24 km possible moderate visual effects
- > 24km possible minor visual effects



Case Study: Baltic 1



Standort Prerow (54.4533, 12.57079)
Blick nach Norden (10°)
Foto aufgenommen am 26.02.2015 um 15:20 Uhr

Case Study: Baltic 1 with planned Gennaker extension



ca. 13,9 km

Standort Prerow (54.4533, 12.57079)
Blick nach Norden (10°) auf das Plangebiet "Darß"
LEP M-V Gebietskulisse 2. Beteiligungsrunde

Public Perception



In general, there is less opposition of seaside resorts and civil society if OWFs are not visible.

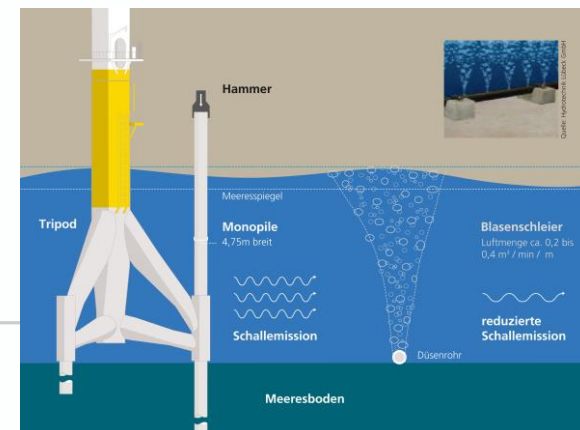
Please note:

- Visual OWF do not necessarily lead to a negative economic effects for local tourism business (e.g. EnBW Baltic I).
- OWF may have a positive effect on local tourism (e.g. sightseeing, information centres).

- Citizens are mainly concerned about the impact on sea mammals and birds (, but less about benthos and fish).
- **The German Federal Agency for Nature Conservation (BfN)** is consulted during the permitting process regarding all environmental topics (cf. Standard Investigation of the Impacts of Offshore Wind Turbines on the Marine Environment (StUK 4)).
- If possible, measures to reduce negative impacts on nature should be implemented.
- There is more public acceptance for OWF if citizens are informed about the benefits and challenges of OWE.

Case Study: Porpoise (lt. *Phocoena phocoena*)

- In Germany, noise **emissions are being controlled and reduced**, when structures are driven into the seafloor.
- Legal requirement: 160 dB in 750 meter distance (background noise in the North Sea up to 90 dB)
- **Porpoises are sensitive to noise** and protected by animal conservation laws, and other marine mammals.



Public Acceptance Work by Stiftung OFFSHORE-WINDENERGIE

- **Project INSCHOOL**
- Travelling Exhibition „Faszination Offshore“ (here Sails in Sassnitz, DE)
- **Consultation for exhibition places, e.g.**
 - Klimahaus, Bremerhaven (DE)
 - Offshore exhibition in Rostock (DE)
 - National park haus Norderney (DE)



Planning Stage

- Balanced Information (e.g. Events with experts)
- Information at an early planning stage on the part of authorities and developers
- Planning alternatives
- Point out participation possibilities
- Involve local experts
- Consider the concerns of local communities (seriously)

Construction & Operation

- Minimise impact on nature during the construction phase
- Online presence to inform about project development
- Involve local companies during the construction and maintenance

- The main challenge in regard to public acceptance is **lack of information.**
- A **good communication strategy** during planning and construction phase is a key factor to public acceptance.
- It is important to **take existing concerns seriously**, reduce uncertainty and inform about the benefits and risks.
- Additionally, it is helpful to **point out the possibilities for public participation** to the civil society.

Thank you for your attention!

For further information:

Mail: info@baltic-integrid.eu

Web: www.baltic-integrid.eu

Baltic InteGrid represented by the Lead Partner:

**Institute for Climate Protection, Energy and
Mobility (IKEM)**

Magazinstraße 15-16, 10179 Berlin, Germany

Phone: +49 (0) 30 408187015

Mail: info@ikem.de

Web: www.ikem-online.de

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Thilo Krupp | Project Manager

Oldenburger Str. 65

26316 Varel, Germany

Phone: +49 (0) 4451 9515 148

Mail: t.krupp@offshore-stiftung.de

Web: www.offshore-stiftung.de