

Update: Offshore Wind In Germany

Ronny Meyer, Managing director WAB



Windenergie Agentur WAB: Leading voice for the German Offshore Industry

Overview

Februar 2002

Number of members:

Organisationsform:

Employees:

Founded

Financing:

350

registred society

membership fees

partly funded by **Federal State of**

Bremen

Broad industry spectrum, covering full value chain incl. maritime industry





Door opener – ask us about partners! WAB is a contact point for many partners in the region and beyond



The Agenda for today

- Update: Offshore wind energy in Germany
- Planned changes in the EEG (Renewable Energy Act)
- Public Affairs/ Campaigning tips



Offshore in Germany started ten years ago ...

- Setting the right political framework
- Ambitious targets

Phasen	Zeitraum	Mögliche Kapazität	Möglicher Stromertrag
1. Vorbereitungsphase	2001 - 2003	MW	TWh p.a.
2. Startphase	2003/4-2006	mindestens 500 MW	ca. 1,5 TWh p.a.
(Erste Baustufen)			
3. Erste Ausbauphase	2007-2010	2.000 - 3.000 MW	ca. 7 - 10 TWh p.a.
4. Weitere Ausbauphasen	2011-2030	20.000 - 25.000 MW	ca. 70 - 85 TWh p.a.

Strategie der Bundesregierung zur Windenergienutzung auf See

im Rahmen der Nachhaltigkeitsstrategie der Bundesregierung

Betoiligte Ressorts:

Bundesministerium für Umweit, Naturschutz und Reaktorsicherheit (BMU, Federführung) Buncksministerium für Verkeihr, Bau und Wohrungswesen (BMVBW) Bundesministerium für Verbraucherschutz, Ernahrung und Landwirtschaft (BMVEL)

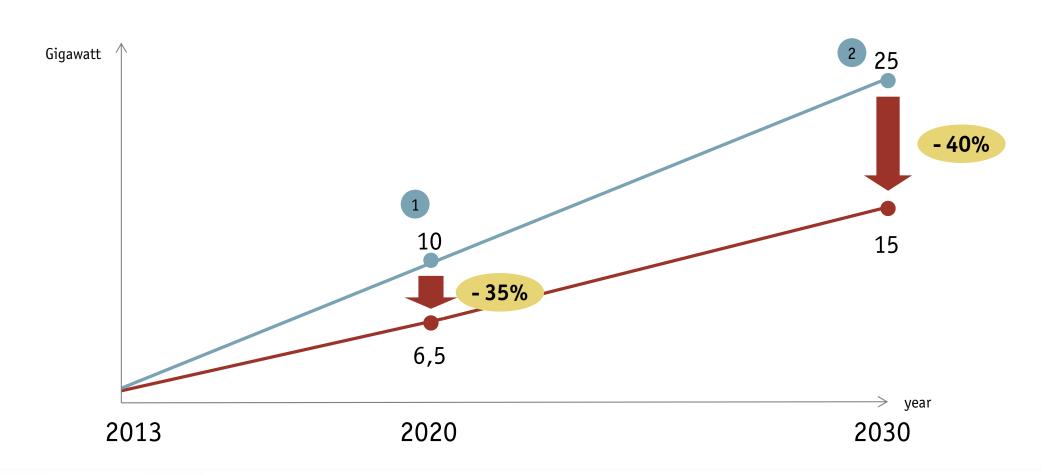
unter Beteiligung der Deutschen Energie-Agentur (dena)

Stand: Januar 2002



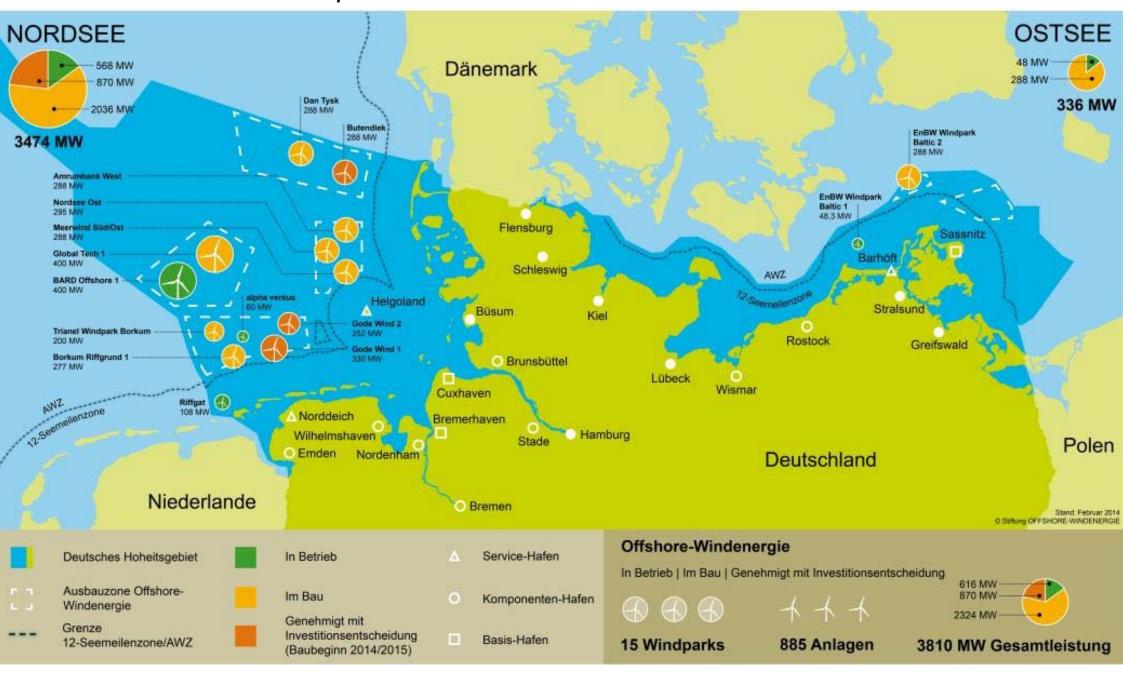
... but the political targets was redefined after the elections

Offshore targets in Germany till 2020 and 2030





Around 3.8 GW in operation, under construction or start of construction

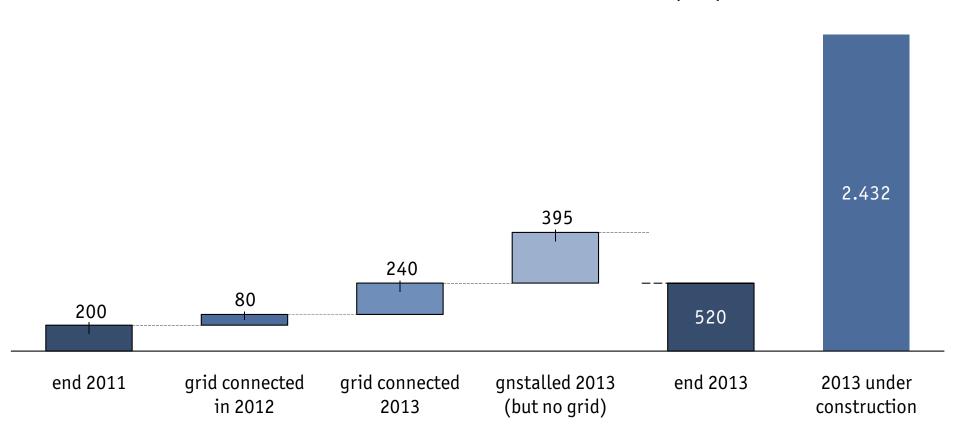






Offshore windenergy 2013 in Germany: Strong market growth

German offshore wind statistics 2013 (MW)



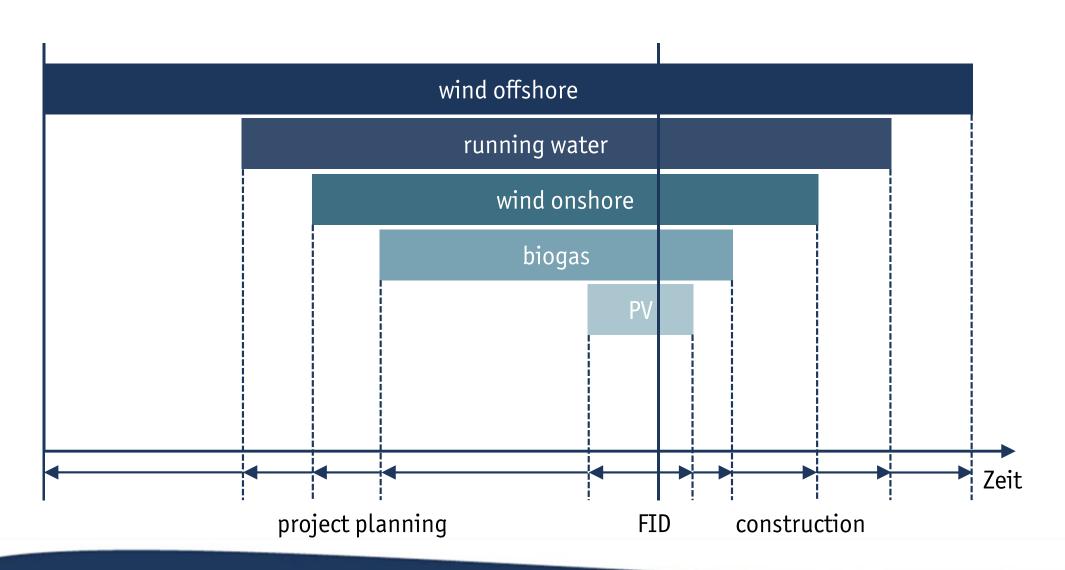


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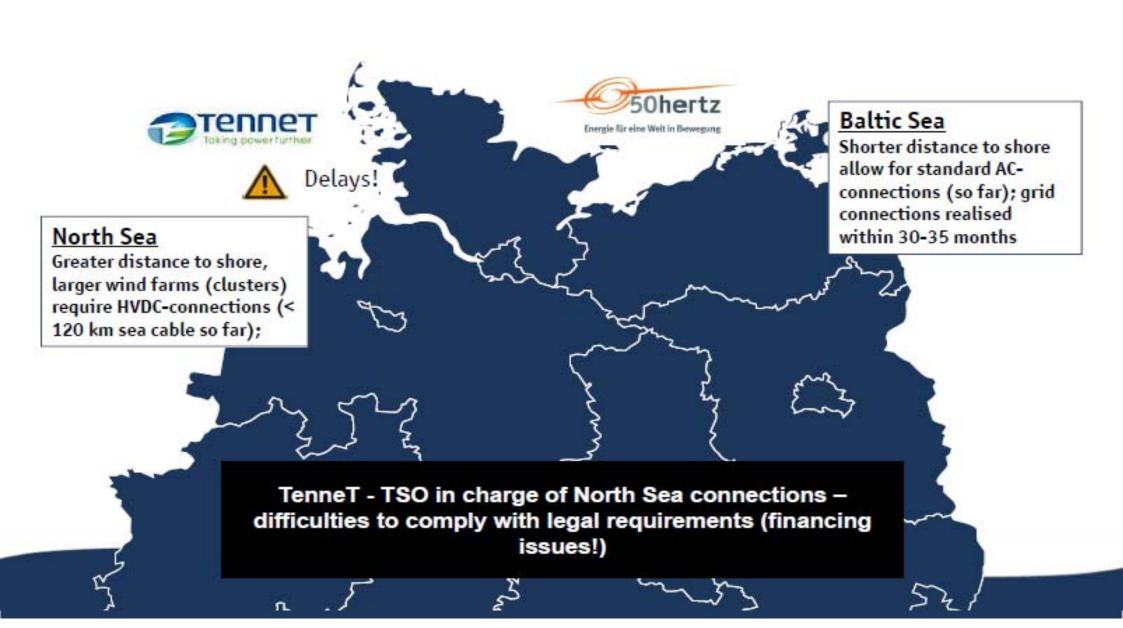
Different FIDs for different renewable energy sources

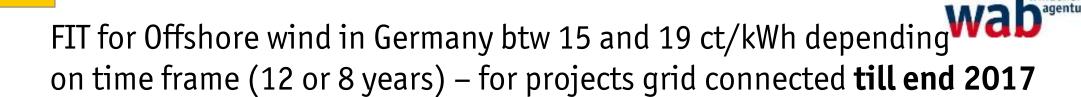




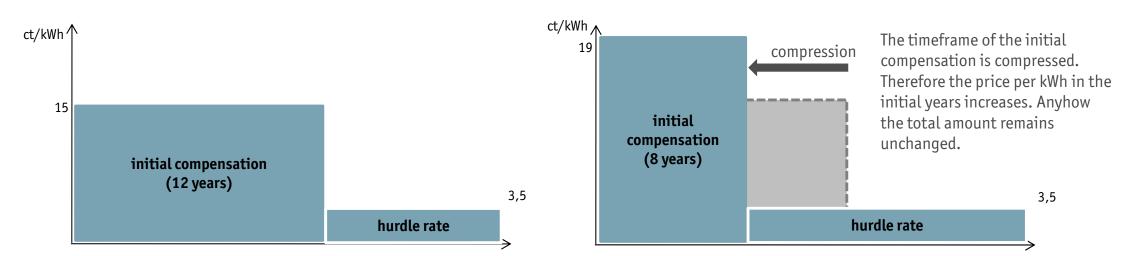


Severe delays in grid connections



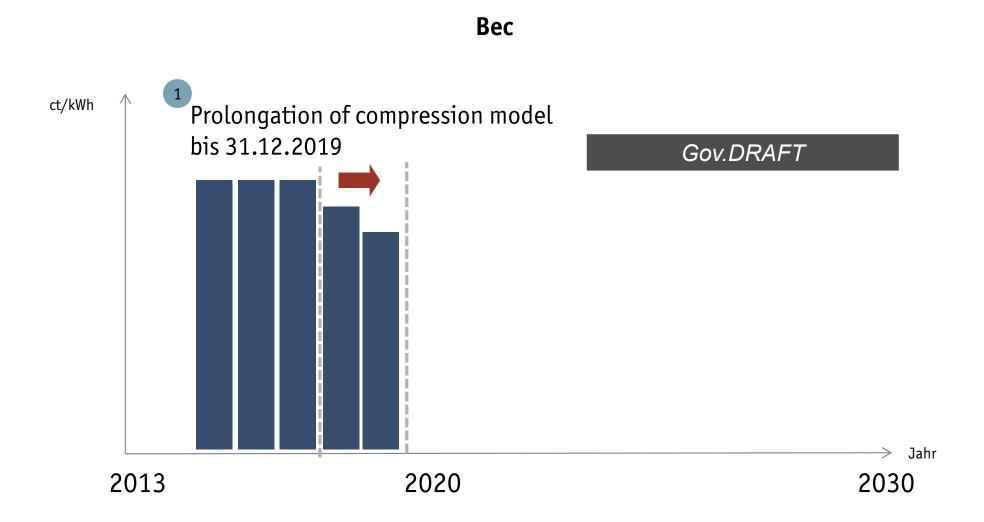


FIT of 15 ct/kWh for 12 years ... OR FIT of 19 ct/kWh for 8 years



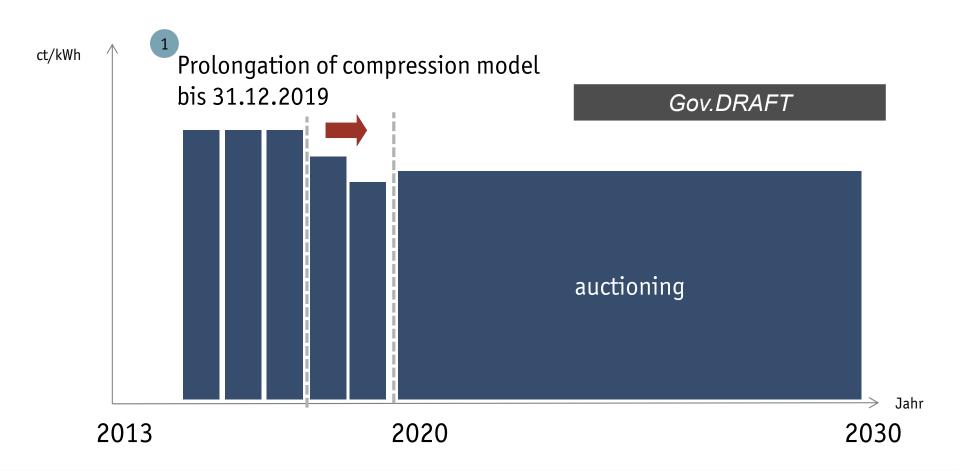
Compression model increase IRR

Because of delay of many projects (due to grid issues) prolongation compression model till end of 2019 was granted by the government



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Auctioning after 2020



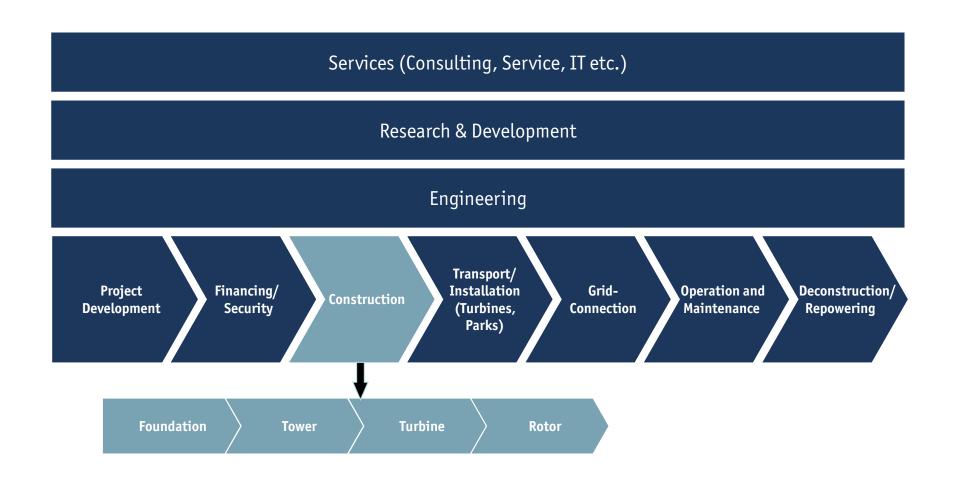


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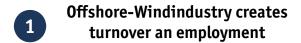
Offshore wind energy: Not only energy policy All parts of the Supply Chain can be found in Germany

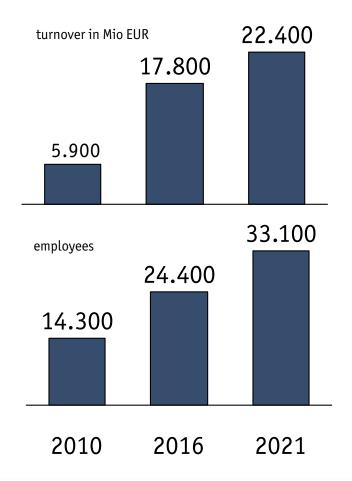






Offshore wind creates added value and emloyment





Offshore-Windindustry beneficial for the whole country



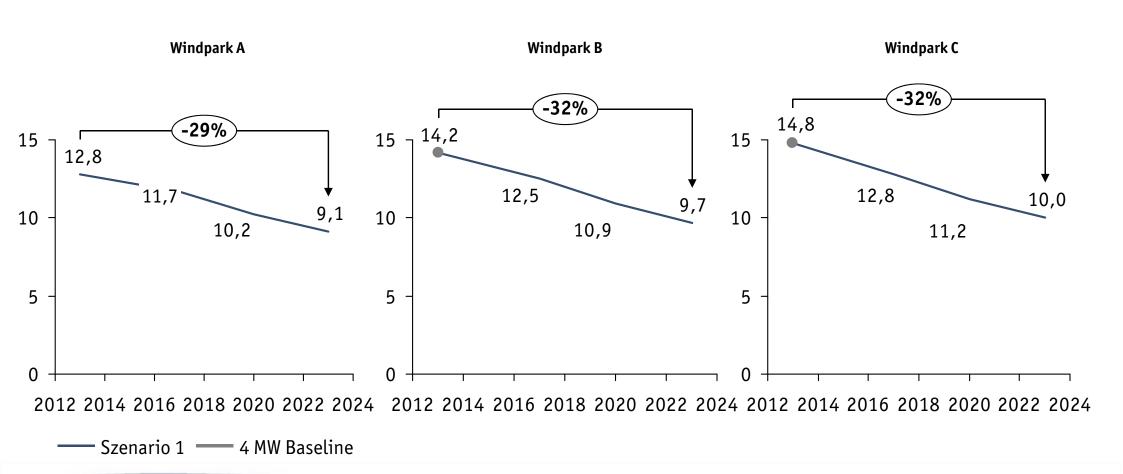
Offshore-Windindustry is predominantly SME-Business

74%



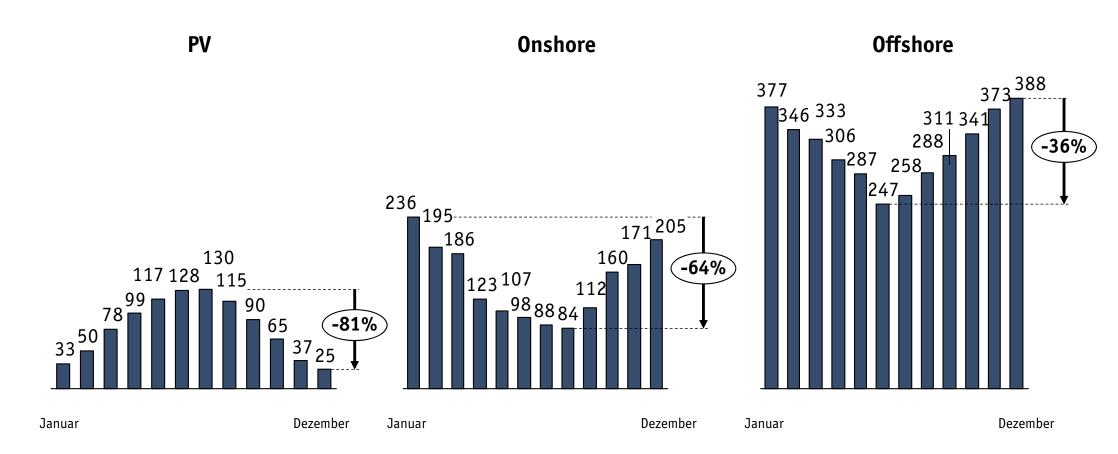
Costs for offshore wind will decrease in the next years

Overview of cost degression in the next ten years





Variability of full load hours for PV, onshore and offshore wind Offshore wind has a balancing effect



Offshore wind decrease total cost of RE-power system



Summary

- Offshore wind in Germany is gaining speed
- Politicial support for offshore wind energy still strong in Germany
- FIT Offshore wind currently under revision
- Offshore wind creates added value and employment
- Costs for offshore wind will decrease
- Offshore wind has a balancing effect in the power system



Thank you for your attention

