

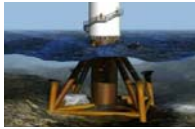


Federal Ministry for the Environment, Nature Conservation and Nuclear Safety

German-Norwegian Cooperation within Offshore Wind

Dr. Torsten Bischoff

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Berlin, Germany



Dr. Torsten Bischoff

German Norwegian Offshore Wind Energy Conference

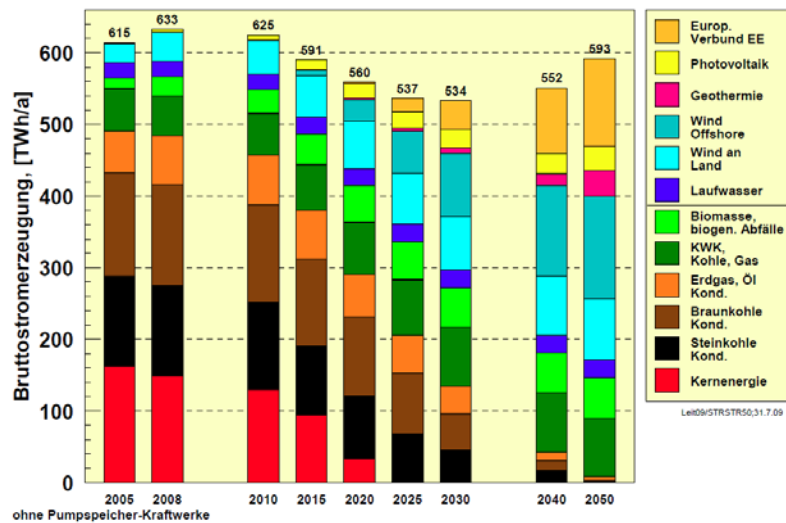
Bergen, 4.5.2010



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Gross Electricity Production

- Aktualisiertes Leitzenario -



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For a success story, a good economic, long-term framework, ensuring investment certainty, is crucial!

The RES-A requires the grid owner to:

1. provide free and priority access to the grid
 2. provide priority transmission of electricity from renewables
 3. pay the legally fixed feed-in tariff for 20 years for every kWh which is fed into the grid
 4. In order to take technological state and progress into account, the tariffs are differentiated according to the different technologies and reduced slightly for every new plant.
 5. Nationwide equalisation of additional costs for renewables
- = Perfect investment certainty for entrepreneurs for 20 years!



Official Opening alpha ventus 27.4.2010





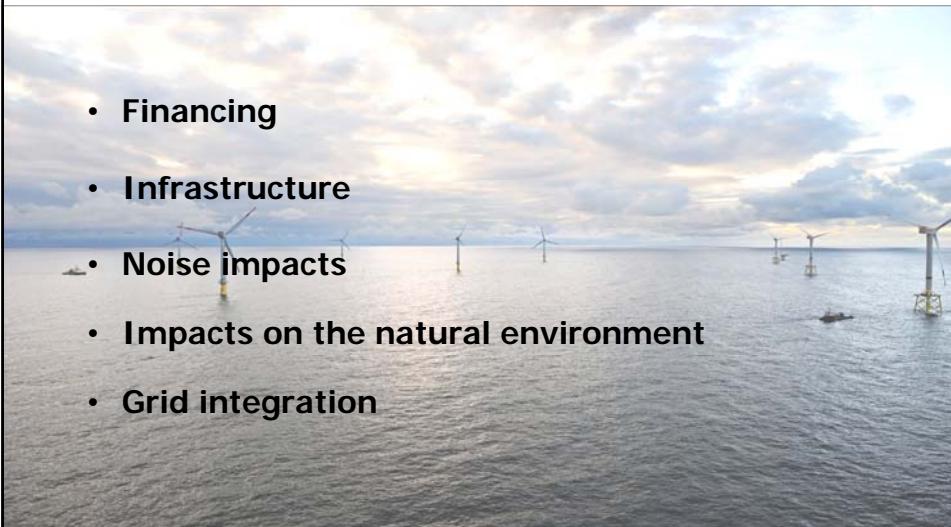
Germany's Offshore-Strategy

Phases	Period	Potential capacity	Potential power generation
1. Preparatory Phase	- 2003	-- MW	-- TWh p.a.
2. Startphase (First construction phase)	- 2008	60 MW	ca. 0,3 TWh p.a.
3. First Extension phase	- 2010	450 MW	1,2 TWh p.a.
4. Substantial contribution	- 2020	10.000 MW	34 TWh p.a.
4. Further Extension phases	- 2030	25.000 MW	84 TWh p.a.
5. Major contributor	- 2050	ca. 40.000 MW	142 TWh p.a.



Some Problems

- **Financing**
- **Infrastructure**
- **Noise impacts**
- **Impacts on the natural environment**
- **Grid integration**





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GDSN - Cooperation: **Projects and Activities between D – NOR:**

Evaluation and optimization of design of offshore foundations in the frame of test site research RAVE(N)



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Thank you for your attention!



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