

RAVE Workshop 2022 – Discussion topics

Bernhard Lange
Fraunhofer Institute for Wind Energy Systems IWES

© DOTI 2009

Gefördert durch:



aufgrund eines Beschlusses
des Deutschen Bundestages



RAVE objectives

- At the start of RAVE:
 - Prove the offshore-capability of the 5 MW turbine class
 - Demonstrate feasibility of offshore wind with large distance to coast and deep water
 - Investigation of open questions to offshore wind power utilization
- In recent years:
 - Operation of offshore wind farms (control, forecasting)
 - Effects of neighbouring wind farms
- In the future:
 - Life time modelling, life time extension, repowering, decommissioning, ...
 - ➔ Discussion at the end of the workshop

Aims for the test field alpha ventus in the future

1. Alpha ventus is the oldest German offshore wind farm and has a life-long data set of measurement data. What can we learn from it for the future? Which research questions should be answered with such a data set?

Aims for the test field alpha ventus in the future

2. Alpha ventus will be the first wind farm facing the questions of life-time extension, decommissioning or repowering. What should be demonstrated in a small test field before this questions comes for many large wind farms?

Aims for the test field alpha ventus in the future

3. When at some time alpha ventus is decommissioned, what should the area and the grid connection be used for ?

Thank you...

...to the BMWK for the funding of RAVE:

Supported by:



on the basis of a decision
by the German Bundestag

... and to you for your attention!

Bernhard.Lange@iwes.fraunhofer.de