

Coexisting with offshore wind

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Fossil free living within one generation



VATTENFALL

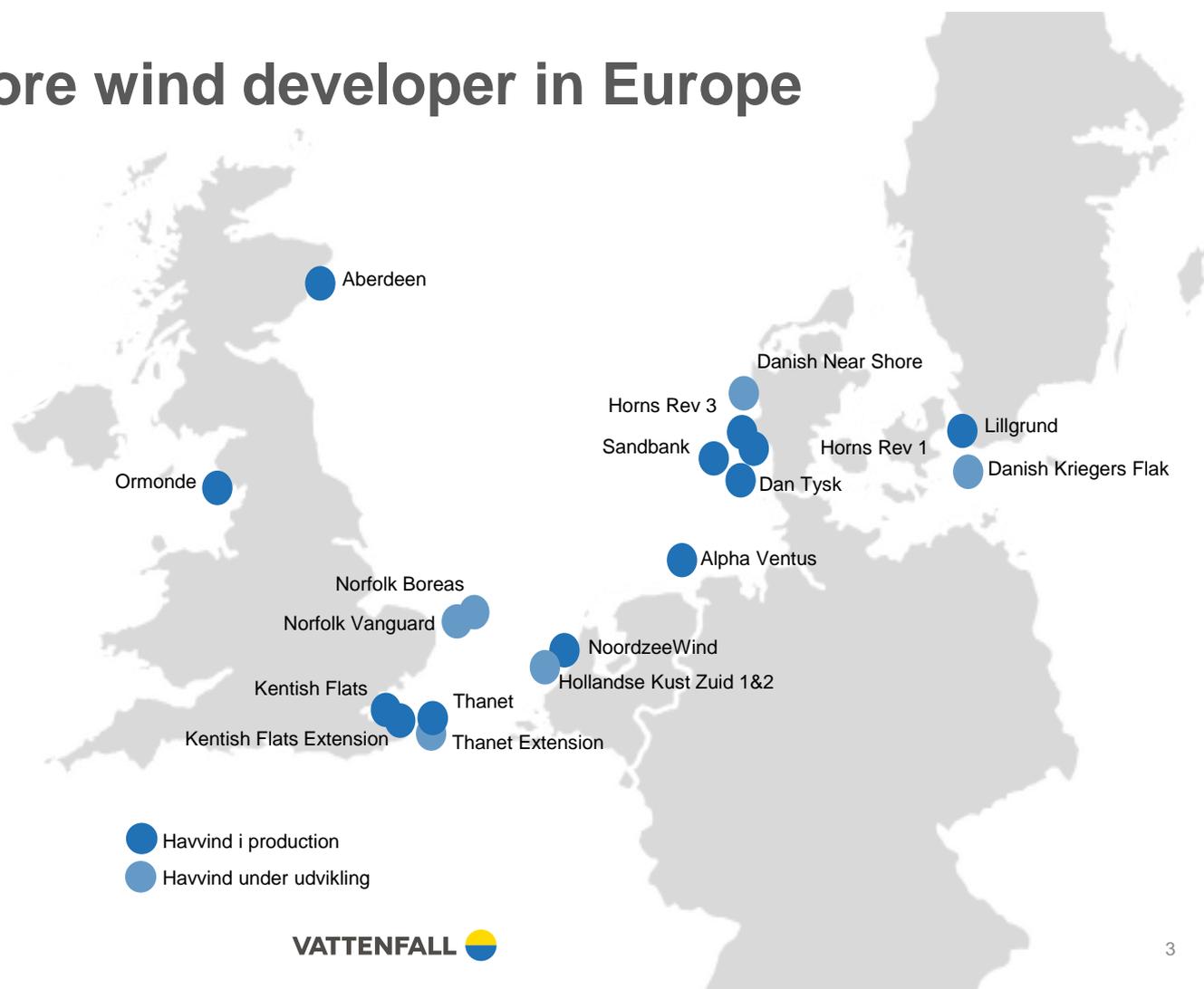
Leading offshore wind developer in Europe

2
GW

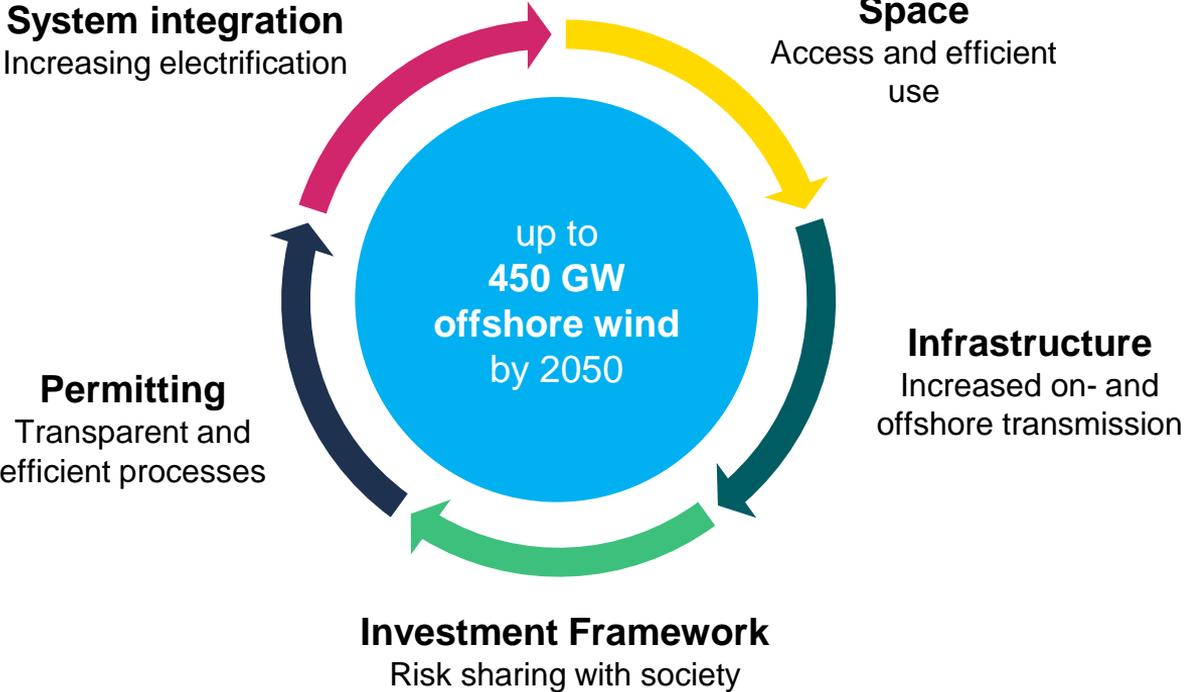
In production

6,4
GW

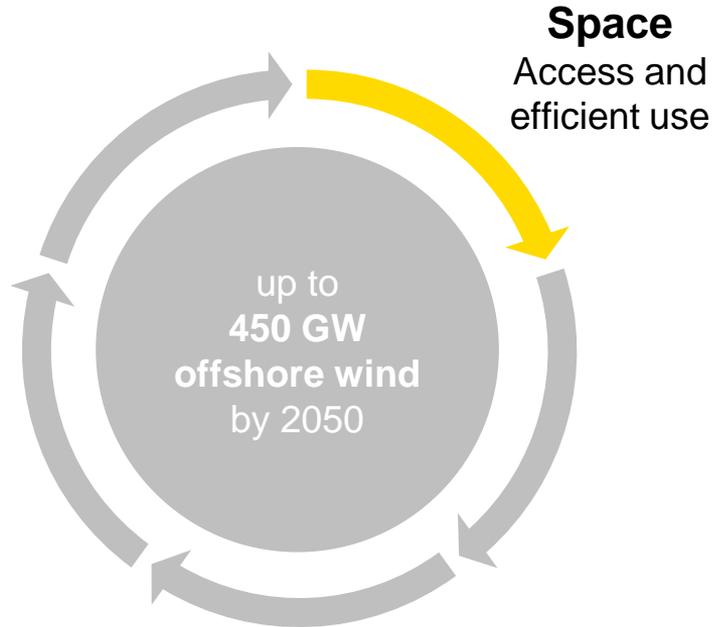
Under development



Achieving a carbon neutral Europe with offshore wind



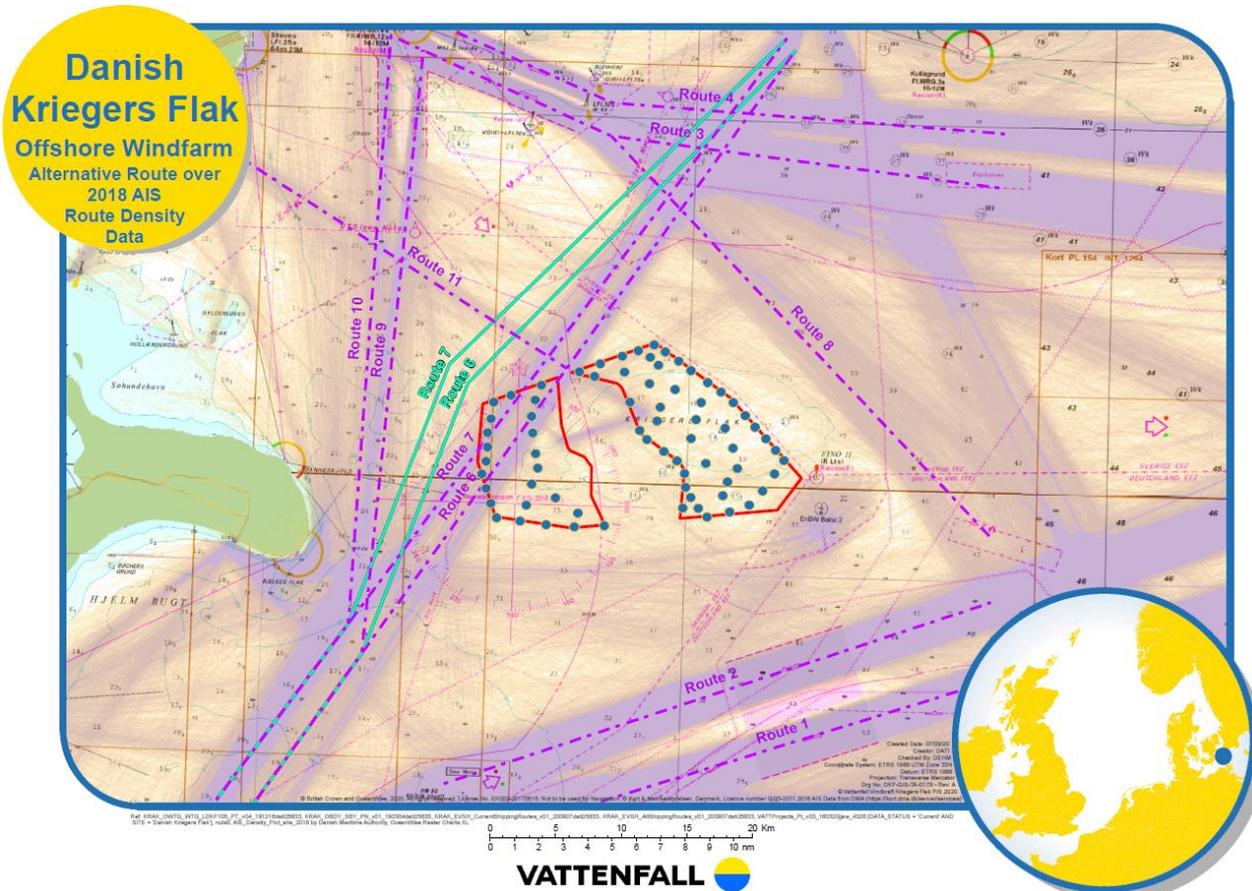
Achieving a carbon neutral Europe with offshore wind



- **Departure from fixed historic distribution of offshore areas**
- **Use offshore areas based on most value to society**
- **Increase coexistence**

Coexisting with shipping and sand extraction

Early dialog and pragmatism – Kriegers Flak



Coexisting with nature

Offshore wind can have a positive impact



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Review

Using Artificial-Reef Knowledge to Enhance the Ecological Function of Offshore Wind Turbine Foundations: Implications for Fish Abundance and Diversity

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Abstract: As the development of large-scale offshore wind farms (OWFs) amplifies due to technological progress and a growing demand for renewable energy, associated footprints on the seabed are becoming increasingly common within soft-bottom environments. A large part of the footprint is the scour protection, often consisting of rocks that are positioned on the seabed to prevent erosion. As such, scour protection may resemble a marine rocky reef and could have important ecosystem functions. While acknowledging that OWFs disrupt the marine environment, the aim of this systematic review was to examine the effects of scour protection on fish assemblages, relate them to the effects of designated artificial reefs (ARs) and, ultimately, reveal how future scour protection may be tailored to support abundance and diversity of marine species. The results revealed frequent increases in abundances of species associated with hard substrata after the establishment of artificial structures (i.e., both OWFs and ARs) in the marine environment. Literature indicated that scour protection meets the requirements to function as an AR, often providing shelter, nursery, reproduction, and/or feeding opportunities. Using knowledge from AR models, this review suggests methodology for ecological improvements of future scour protections, aiming towards a more successful integration into the marine environment.

Coexisting with fisheries

A win win potential by increasing fish abundance and new fishing methods?



Coexisting with defence

Government needs to drive pragmatic solutions





**Thank
you**