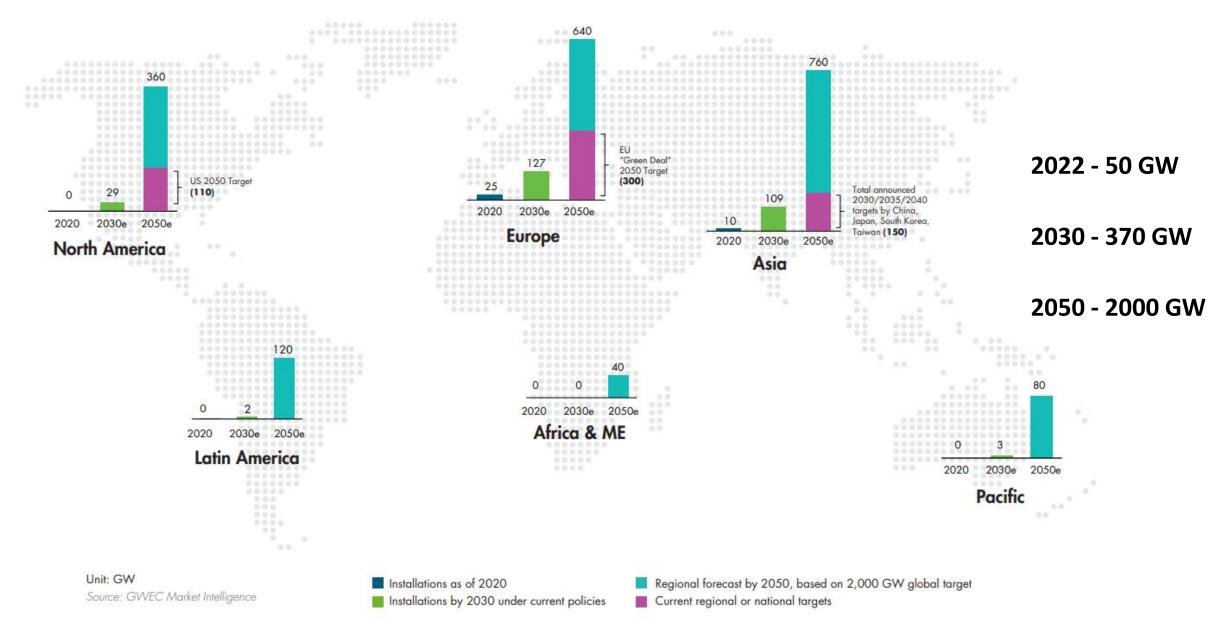
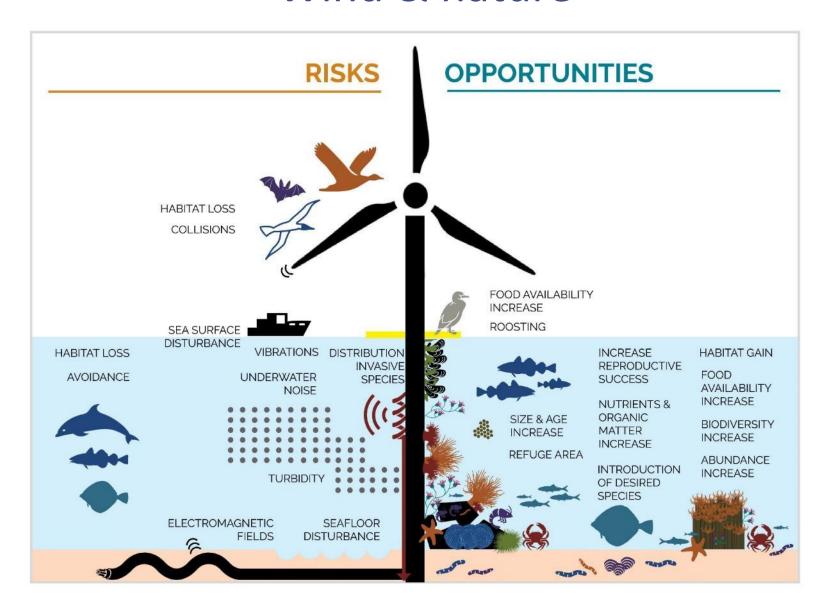




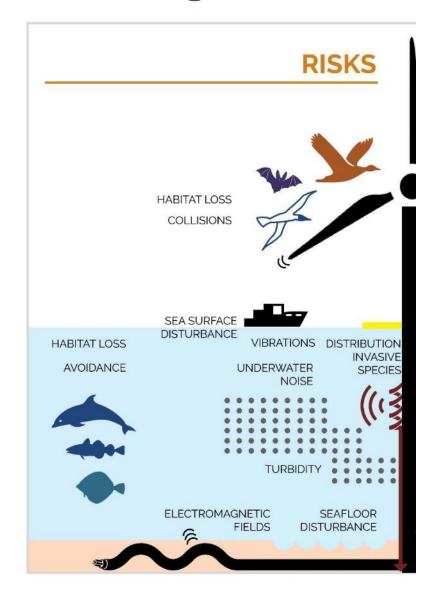
Exponential growth offshore wind



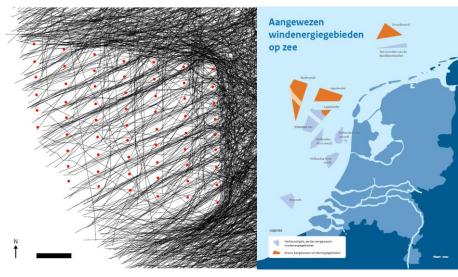
Wind & nature



Reducing risks



Avoid



Minimize



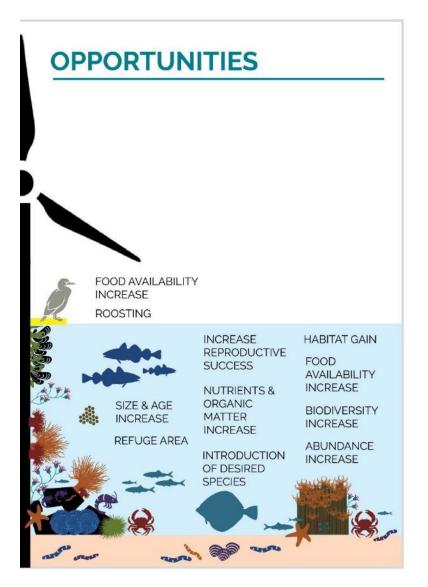
Taking opportunities

Restore



Offset









Sponsored by: The Dutch Postcode Lottery

Collaboration between: The North Sea Foundation and Natuur & Milieu







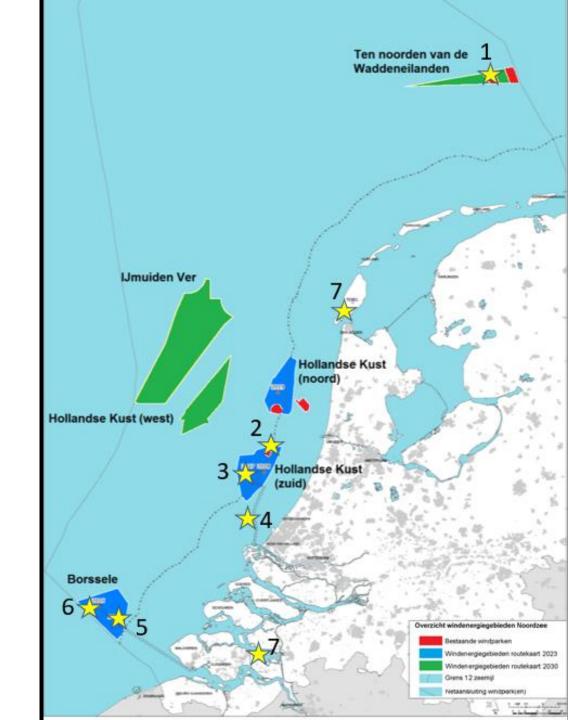






Main projects

- 1. Gemini
- 2. Eneco & Van Oord
- 3. Vattenfall
- 4. Offshore Test Site
- 5. Ørsted
- 6. Blauwwind
- 7. Oyster hatchery



Gemini

Lost oyster reef is being restored

- Large-scale reef
- Comprehensive research
- Together with:

WaterProof, Wageningen Marine Research, NIOZ, Waardenburg Ecology





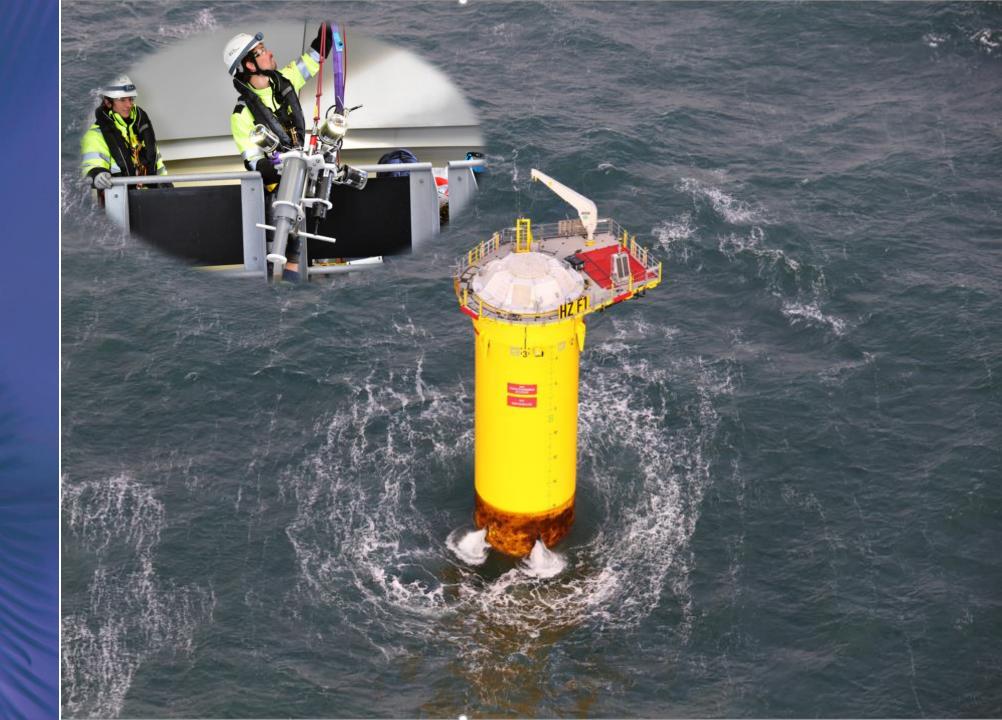




Vattenfall Nature inclusive design

- Measurements inside and outside foundation
- First life already visible
- 6 offshore missions





Offshore Test Site

Ability to test structures on technical and ecological functioning

- Reef Cubes ARC Marine
- (T)REE(F) & WERC-dock NIOZ & Waardenburg Ecology

Installed: Feb 2021

Monitoring: Sep 2021

~25 species









Ørsted Borssele 1 & 2

- Development of biodiversity around artificial reefs
- Behaviour of cod and North Sea lobster.

Together with Wageningen Marine Research







Blauwwind Borssele 3 & 4

- October 2020:2400 European flat oysters
- Monitoring with ROV and eDNA
- July 2021:

>96% survival, growth, high biodiversity around the oyster tables







Offshore Wind Farms & Nature Future Outlook

- Start and learn by doing
- Seize opportunities by installing nature enhancement during construction phase
- Monitoring is a prerequisite Share knowledge and data internationally
- Use local ecology as basis
- Potential for scale-up:
 - Nature enhancement outside of Offshore Wind Farms
 - Regulations on decommissioning





