

Environment and Biodiversity considerations: insights from global experiences

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Ørsted



Headquartered in Denmark
6,672 employees globally
Group revenue of EUR 7.1 billion



Global market leader in offshore wind

- Developer, constructor, owner and operator of over 1,500 offshore wind turbines globally, generating +25 TWh annually



A unique renewable footprint

- Offshore and onshore wind farms, solar farms, energy storage and renewable hydrogen facilities across North America, Europe and APAC



Full commitment to renewable hydrogen

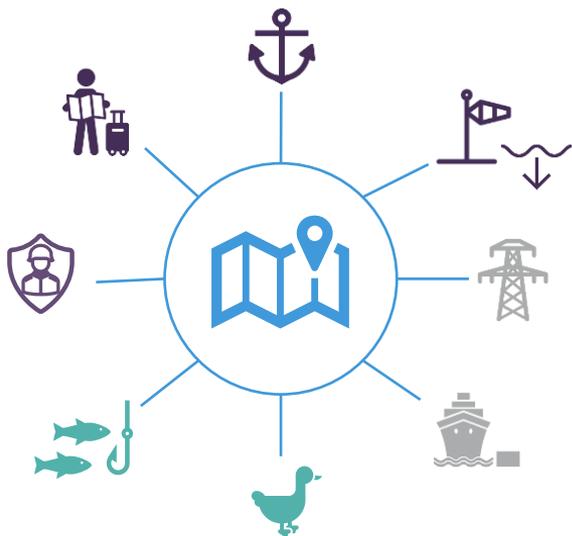
- Ambition to become a global leader in renewable hydrogen and green fuels and an expanding pipeline of projects



Ranked 'Most Sustainable Energy Company in the World'

- Ranked world's most sustainable energy company three years in a row in Corporate Knights' 2021 Global 100 Index

OWF sites to be selected based on site conditions, also taking into account environment, local stakeholders and maritime infrastructure



Site conditions and resources

- Selected site has to have appropriate water depth, good seabed conditions and high wind speeds (preferably confirmed by long term data from close by wind measuring station)

Infrastructure

- Suitable grid connection point, with sufficient capacity, and an appropriate O&M harbour need to be in proximity

Environmental and stakeholder coexistence

- Possibility for coexistence with the natural environment (birds, mammals etc.) as well as local stakeholders and industry (fishery, shipping, defence, tourism)

Size

- A sufficiently large area needs to be reserved to enable a large scale project and allow for exclusion of challenging areas

In terms of environment & permitting a specific approach is required tailored to offshore wind

Regulatory requirements

- Offshore specific permitting framework in place
- Strategic Impact Assessment (SIA) carried by authorities; information available to developers.
- National MSP in place, specifying areas for offshore wind to reduce conflicts with other users

Environmental Impact Assessment (EIA)

- Site specific EIA work to be started after bid award, to avoid survey of same area by several developer, which is costly and not serving the marine environment
- Use of standardised methods to collect data and to perform assessment, to allow comparison across locations and regions
- Combination of desktop studies and field surveys, to allow to finalise EIA within adequate timeframe (1-2 years)

Approval process to be streamlined

- Ensure effective coordination between competent authorities on national, regional and municipality level
- establish binding max deadlines for review and approval process
- Introduced mitigation measures should be specific and applicable to offshore conditions

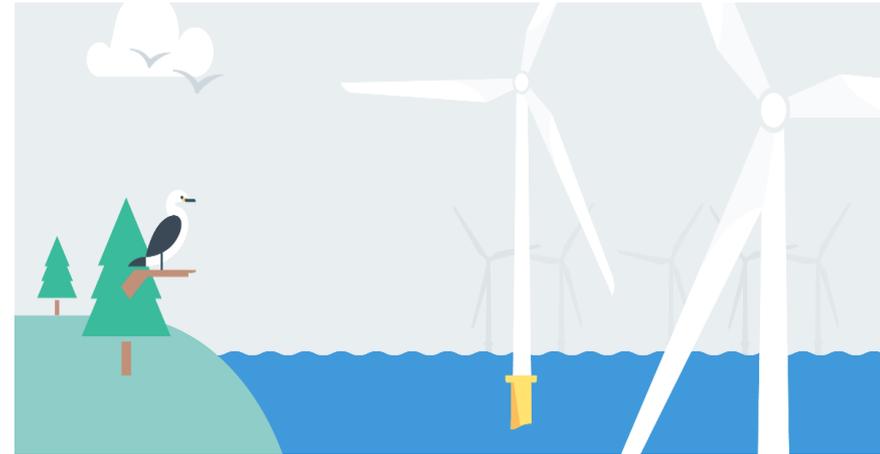
Building out offshore wind also with focus on Biodiversity

- The world needs to accelerate the transition to green energy
- When accelerating the build-out of green energy, we will work with a greater number and more diverse set of ecosystems
- We must continue to find ways to build in balance with nature and its biodiversity



Ørsted is committed to deliver Net-Positive Biodiversity for future offshore wind projects

Recognizing the twin crises of climate change and biodiversity loss, Ørsted has set **the ambition to deliver net-positive biodiversity impact in all renewable energy projects it commissions from 2030**, strengthening the green energy build-out in balance with nature



There are challenges in achieving such an ambition and we presently do not have all the answers



Understanding our current biodiversity footprint and how this can be measured- presently no industry-wide standardised offshore approach



Delivering net positive in dynamic marine ecosystems



Increase in initial investment



Managing stakeholder expectations and views in the multiple markets we operate



Adapting to the changing policy landscape



Potential conflict with other sea users

We have entered into a pioneering , global partnership with WWF

We want to enhance marine biodiversity, and drive a global shift towards addressing climate and biodiversity goals together by



innovate and test tangible initiatives as additional measures to achieve a net-positive impact on biodiversity



develop science-based recommendations for governments regarding ocean biodiversity requirements in offshore wind development



bringing together ocean users and those who seek to protect its health to work on to deliver common vision for a decarbonised energy system that exists alongside marine nature protection and restoration



Working
together
for ocean
biodiversity

Orsted



**Let's create a world that runs
entirely on green energy
in balance with nature**