

VATTENFALL



METSÄHALLITUS  
FORSTSTYRELSEN  
MEAHCIRÁÐDEHUS



# Vattenfall – Metsähallitus

A partnership setting the standard for offshore wind in Finland

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Wind Finland Offshore 2023

VATTENFALL



Introduction to Vattenfall

# Our value chain



Production



Electricity  
distribution



Sales of electricity,  
heat & gas



Energy services  
and decentralised  
generation



District heating

Introduction to Vattenfall

# Finland is an important market for Vattenfall



Production



**136 MW**  
(9 operational plants)



**1300 MW**  
(under development)



Electricity  
distribution



Sales of electricity,  
heat & gas



**~10 %**  
(B2B & B2C market share)



Energy services  
and decentralised  
generation



District heating



## Offshore Wind

# Vattenfall | A European offshore wind leader supporting Finland towards fossil-free living

 Offshore wind project in operation

 Offshore wind project in development / construction

**United Kingdom**  
In operation: **686 MW**  
Under development: **5,000 MW**

Muir Mhòr (50%)  
Aberdeen Bay

Ormonde (51%)

Norfolk Boreas  
Norfolk Vanguard  
Kentish Flats (+ext)  
Thanet

**The Netherlands**  
Under construction: **1,520 MW**

**Denmark**  
In operation: **1,170 MW**  
Under construction: **344 MW**

Vesterhav  
Sandbank (51%)  
Horns Rev 3  
Horns Rev 1 (60%)  
DanTysk (51%)  
Nordlicht 1  
Alpha Ventus (26%)  
Vidar (85%)  
Poseidon (85%)  
Kattegatt Syd  
Stora Middelgrund  
Lillgrund  
Danish Kriegers Flak  
Swedish Kriegers Flak

**Sweden**  
In operation: **110 MW**  
Under development: **5,440 MW**  
(of which early-stage: **4,800 MW**)

Korsnäs

**Finland**  
Under development: **1,300 MW**

**Germany**  
In operation: **636 MW**  
Under development: **980 MW**



Great understanding and fast adaptation to national energy policies and the tender landscapes



Close supplier collaboration with joint focus on decreasing levelized cost of energy



Ability to decrease O&M costs by applying latest business and industry standards



Focus on innovation and integration of offshore wind assets into the energy system



Strong focus on environment, biodiversity and sustainability

## Offshore Wind

# Decarbonisation & environmental protection | Leveraging industry partnerships and innovating continuously

Developing the world's first fossil-free steel

**HYBRIT**  
FOSSIL-FREE STEEL



Cooperation in large scale bio-diesel production



Turbine foundation design creates new home for marine life at HKZ



Developing the world's first hydrogen-producing offshore wind turbine in Aberdeen



New study: birds avoid wind turbine blades in Aberdeen

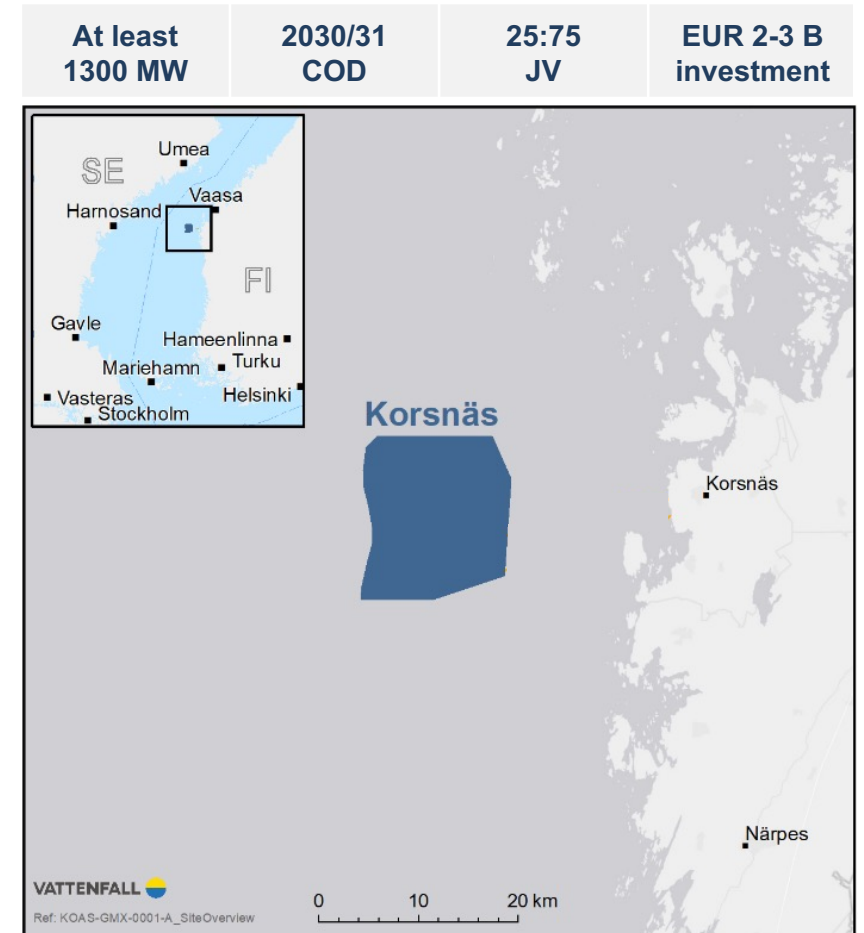
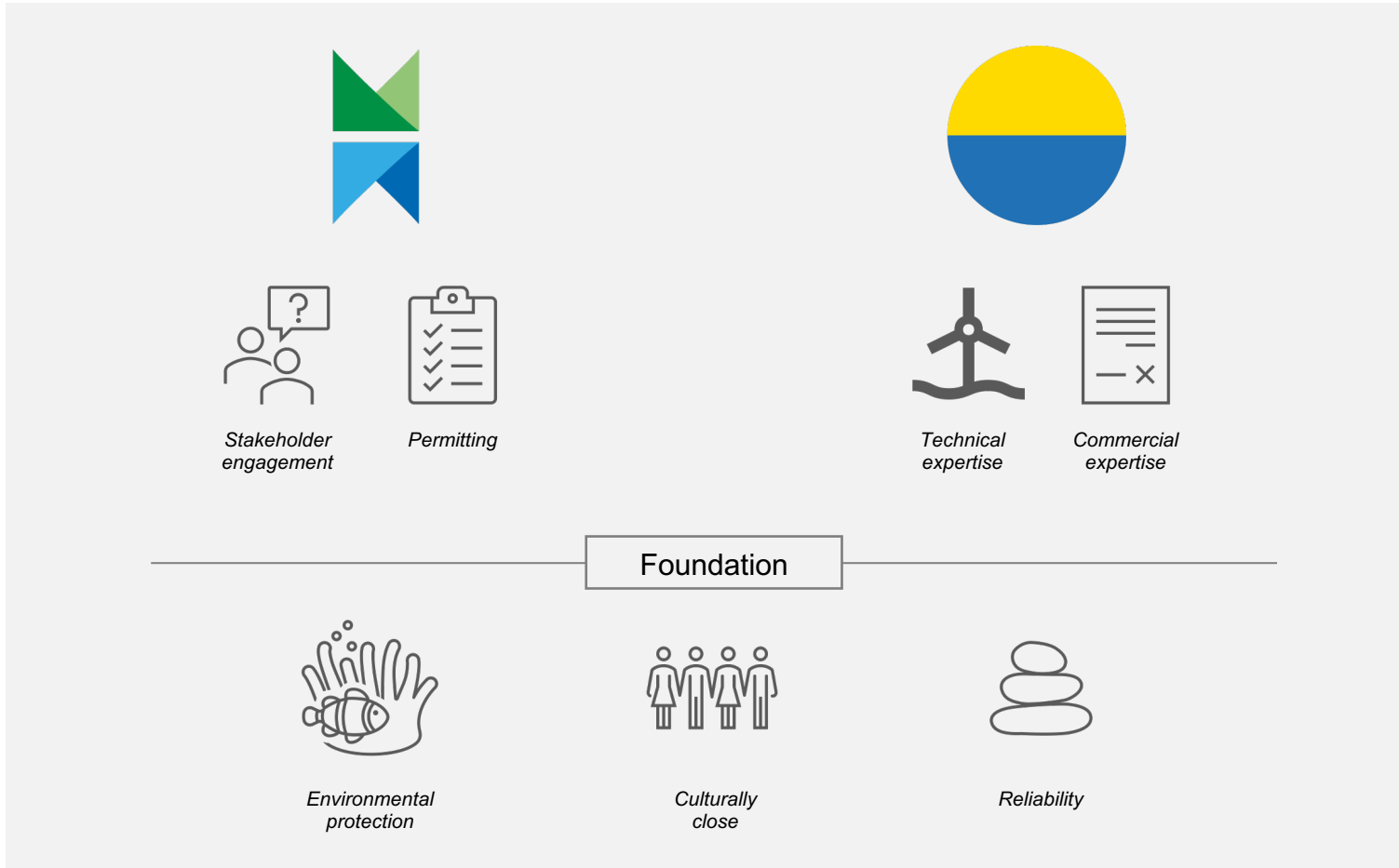


Kerteminde Seafarm will grow blue mussels, sugar kelp, sea lettuce at Danish Kriegers Flak




## Project & Partnership

# Partnership | A shared culture and complementary skill set to successfully build large-scale offshore wind in Finland







**Thank you!**  
**Any Questions?**

## Contact

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