



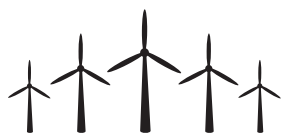
Sustainable
project
development
for fossil
free energy

Korsnäs Offshore Wind Farm

Metsähallitus is developing an offshore wind farm with a minimum capacity of 1,300 megawatts. The offshore park is located on the west coast of Finland, off the coast of Korsnäs municipality. The total investment value of the Korsnäs offshore wind farm will be in the range of EUR 1.5 – 2.5 billion.

Korsnäs offshore wind farm facts

TURBINES:



From

70–100

turbines, in the first phase
with a nominal power
of 12 to 20 MW

ESTIMATED CAPACITY:



minimum of

**1 300
MW**

ESTIMATED ENERGY PRODUCTION PER YEAR:



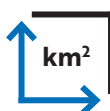
**5 000
GWh**

LOCATION:



State owned water
area 15 kilometres
off the coast

PROJECT AREA:



**220
km²**

TIMELINE:

Production
**in
2028**
at the earliest

The Korsnäs offshore wind farm will have a significant production capacity. Its estimated annual production would correspond to the electricity consumption of approximately 45,000 single-family houses with year-round electric heating. Or the amount of electricity would charge approximately 300,000 electric vehicles.

Responsible planning process

Korsnäs municipality has approved a planning initiative on the offshore wind farm already in autumn 2020. The final area will be specified as planning progresses.

Various aspects to be assessed during the planning process will include impacts on protected areas, the seabed and natural values, for instance. Inclusive discussions and continuous dialog with different

stakeholders are an elemental part of the development process. Shipping routes and the requirements of the Finnish Defence Forces have also been included in the planning phase.

Ideal wind conditions

The wind conditions in the sea area off the coast of Korsnäs are ideal. The average wind speed on the site exceeds 9 metres per second.

The water depth and seabed geology are also well suited for wind power construction. The water depth at the project site is mainly 10 to 20 metres. The richest biodiversity of seabed organisms is found at depths of less than 10 metres.

The wind farm site is located more than ten kilometres from Kvarken Archipelago, the only natural heritage site in Finland on the UNESCO World Heritage List. Natura habitats are also located within sight of the project site.

Biodiversity impacts will be carefully considered during the environmental impact assessments (EIA) and permit processes.

Efficient logistics

One of the preconditions for constructing an offshore wind farm is the availability of suitable ports. Kaskinen, Kristiinankaupunki and Vaasa offer three large ports near the Korsnäs project site. The ports are served by a railway.

To transmit electricity from the project site to the mainland, submarine cables will be laid on the seabed. A power line built on the mainland will connect the offshore wind farm to the existing electricity grid. Options for connecting the wind farm to the main grid will also be examined as part of the environmental impact assessment.

Open dialogue with local stakeholders

The construction of a major wind farm involves many aspects of interest to local residents. Thereby openness and continuous dialogue are some of the key elements in our project development. Metsähallitus has already started to introduce stakeholder engagement practises to support the project.



The offshore wind farm will have many positive impacts on regional economy and business. The project increases economic activity in the area. Employment impacts the local stakeholders are looking forward to will be generated by planning, construction of wind farm infrastructure, transport, wind turbine installation as well as accommodation and catering services.

Locally important taxation aspects

Local municipalities have the right to levy taxes on properties located in their areas in Finland. The tax revenue obtained by an individual municipality from wind turbines depends on the construction costs of the turbines, the efficiency of the wind farm and the tax rate determined by the municipality.

The annual property tax revenue from one offshore wind turbine to the municipality of Korsnäs can be up to EUR 70,000. In this case, the annual revenue from the completed wind farm project could potentially amount to several million euros, which is a considerable income source in the annual budget of the municipality.

Metsähallitus as an offshore wind farm partner

In the Korsnäs project, Metsähallitus has the role of a facilitator and is looking for a responsible partner with know-how in offshore wind farm construction and wind power generation as a business. After the development and building stages, Metsähallitus will remain in its role which is in the management of state-owned land and water areas.

Fossil free energy in 2028

The project development phase of the offshore wind farm in Korsnäs is estimated to take around four years. Environmental impact assessment and zoning will start in early 2022. After the construction of the project, the Korsnäs offshore wind farm could be in production by 2028 at the earliest.