

Dogger Bank wind farm project

A. Location

Dogger Bank is an isolated sandbank in the North Sea spanning British, German, Danish and Dutch waters. Research and the evidence of human activity, vegetation and the remains of mammals indicates that the general area was for a period of time a land mass connecting Britain and Ireland to mainland Europe, known as *Doggerland*. When the sea level rose after the last glaciation (ice age), the area gradually became an island before being completely covered by water between 8000 and 5500 years ago.

The construction and future operation of Dogger Bank Wind Farm is already supporting more than 2,500 new jobs in the UK, thousands of direct and indirect skilled jobs. The exact size of the turbines is yet to be decided and will likely vary from block to block depending on the best fit for the terrain. They will all be fixed to the seabed and arranged around a central, high-voltage direct current converter platform and the power will be transported via underground, high-voltage cables. Turbine installation is expected to start in 2023 at Dogger Bank A.

B. Project

The Dogger Bank Offshore Development Zone, located between 125 and 290 km off the east coast of Yorkshire, extends over approximately 8660 km² and water depths range from 18 m to 63 m. This wind farm is being built in three phases: Dogger Bank A, Dogger Bank B and Dogger Bank C, with each phase having up to 200 turbines. When fully complete in 2026, it will be capable of powering 6 million British homes.



C. Construction

The construction of an offshore wind farm is a challenging process requiring many years of careful development and design work before a number of years of construction activity.

1 Read paragraph A and complete the chart.

1. Location:
2. Name of the area:
3. Indications that the area was a land mass:
4. Consequence of the last glaciations:
5. 8000/5500 years ago:

2 Read paragraph B and answer the following questions.

1. Where is the Dogger Bank Offshore Development Zone located?
2. What is its extension?
3. How deep is the water in that area?
4. How is the Dogger Bank wind farm being built?
5. When will it be completed?
6. How many British homes will be provided with electricity from the Dogger Bank wind farm?

3 Read paragraph C and say if the statements below are true or false. Correct the false ones.

1. A careful design work is necessary before the construction of an offshore wind farm.
2. The construction of Dogger Bank wind farm and its future operation will not require skilled workers.
3. The size of the turbines has already been decided and is the same for all the blocks.
4. The power produced by the wind farm will be transported through special cables

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Outline (in red)
of Dogger Bank