

The Alpha-Ventus wind farm, Germany

In this activity, you will find out about the Alpha-Ventus wind farm project in Germany. You have four separate tasks to complete, as follows:

Task 1 – key locations

Use an atlas to label (using small but neat writing!) the following onto the outline map provided:

1. Germany
2. The Netherlands
3. Denmark
4. The North Sea
5. Emden
6. Wilhelmshaven
7. The West Frisian Islands
8. The East Frisian Islands

Task 2 – locating the Alpha-Ventus project

The longitude and latitude coordinates for the four corners of the Alpha-Ventus project site are given below. Your first task is to use an atlas to accurately locate the wind farm, and to mark it clearly onto your outline map

- 54° 00.0' N 6° 34.4' E
- 54° 01.6' N 6° 34.4' E
- 54° 01.6' N 6° 37.3' E
- 54° 00.0' N 6° 37.4' E

Task 3 – true or false?

On the following page you will find a list of statements about the Alpha-Ventus wind farm project. Some of the statements are true, others are false. Your task is to decide which are true.

There are two websites which will help you to find out the information you need: www.alpha-ventus.de/index.php?id=80 and www.offshore-wind.de/page/index.php?id=9352&L=1.

Statement	True (T) or false (F)?	Correct statement
There will be 8 'REpower 5M' turbines		
There will also be another 6 'Arriva multibrid' turbines		
The site is 50 km north of the coast		
Installation is due to begin in July 2009		
Alpha Ventus is the first German off-shore wind farm		
They will be built at a water depth of 30 metres		
A 70 metre cable will connect the farm to the mainland		
The connection point will be Wilhelmshaven		
Once they're all built, the total capacity of the wind farm will be 600 MW		
This is a test-project. No other wind farm projects have yet taken place at such depths and at such great distances from the coast anywhere in the world		

Task 4 - completing your map

Now that you've decided which statements are true, and you have corrected the false statements, you should have lots of information about the Alpha-Ventus project to add to your map.

Display the information clearly and attractively around your map, so that you create an informative display about the project.

Don't forget to give your map a title.

