



Sheringham Shoal substation



Dudgeon substation



Disused gravel pit at Mangreen



Dunston Woods substation



Hornsea One substation at Killingholme

The Hornsea One substation is under construction at Killingholme, near Grimsby. This offshore wind farm will produce 1.2GW of energy, and the cables to the onshore substation will use *HVAC* transmission. The Hornsea Two and Four wind farm substations will also be built at Killingholme.

The Hornsea Three wind farm, at 2.4GW, will be twice as big as Hornsea One. If it uses *HVAC* transmission, the onshore substation will be twice the size of the one shown in the photograph.

Due to the extra distance to Norfolk, the developers now say that Hornsea Three will probably use *HVDC* transmission instead of *HVAC*. This means two more buildings (converter halls), and increasing the height of the buildings from 15m to 25m. With these changes, the Hornsea Three substation could be about four times the size of the Hornsea One substation in the photograph.



Interconnector substation at Richborough

The Aminth UK-Denmark interconnector will have a capacity of 1.4GW and will also use *HVDC* transmission. The onshore substation will be similar to the one shown above, which has the same capacity, and has just been built for the Nemo Link interconnector at Richborough in Kent.