



Dudgeon Offshore Wind Farm

North Norfolk, England

The Dudgeon Offshore Wind Farm, located 32 kilometres off the coast of North Norfolk, in East Anglia, is one of Masdar's current investments in the UK's renewable energy sector. The wind project is a partnership between Masdar (35%), Equinor (35%), and China Resources Holdings (30%).

Construction of the wind farm began in Q3 of 2014 and was inaugurated in November 2017. This project became one of the world's flagship offshore windfarms. With turbines installed in waters 18 – 25 metres deep, the Dudgeon Offshore Wind Farm utilizes the latest wind turbine technologies, providing high efficiency and yield.

The Dudgeon Offshore Wind Farm brings Masdar's gross installed cumulative capacity in the UK renewable energy sector to over 1,000MW. Dudgeon marks an important milestone in the strengthening of UAE-UK relationships, and also strengthens our partnership with Equinor, a leading technology developer and operator in the wind sector.

The offshore wind farm is made of 67 Siemens turbines, each with a production of 6 megawatts (MW) installed over a total area of 35km². The plant has a total installed capacity of 402MW and supplies around 10.75 terawatt hours (TWh) per year.

Quick facts

- One of the largest wind farm projects in the World
- A joint venture between Masdar (35%), Equinor (35%) and China Resources Holdings (30%)
- Installed capacity of 402MW
- Annual production of 1.75TWh
- Powers more than 410,000 homes
- Project site area of 35km²
- Displaces 893,000 tonnes of CO₂ per year
- 67 Siemens turbines installed, each with 6MW capacity