Fact Sheet

Siemens Wind Power in the United Kingdom

December 2016

Siemens in the United Kingdom

• The company has installed more than 2,400 turbines (onshore and offshore) with a total capacity of more than 6.3 GW (over 3GW is offshore). Around half of the wind power capacity installed in the UK is equipped with technology from Siemens

• Siemens has a workforce of around 14,000 in Great Britain – 1,800 of which are employed in the UK wind businesses

• Siemens is an active investor in the UK offshore market, with a 25% stake in Lincs (together with Centrica and Dong), a 10% stake in Gwynt y Môr (together with RWE and Stadwerke Munich) and a 50% stake in SmartWind

Business highlights

• Siemens is involved in 14 offshore wind farm projects in the UK, including Westermost Rough (6MW turbines), Walney II, London Array (175 turbines – commissioned), Gwynt y Môr (160 turbines – commissioned), Lincs, West Duddon Sands
Siemens in the UK has delivered eight AC offshore platforms over six projects (total 2475MW)

Track record: We are currently delivering four out of the five HVDC offshore projects worldwide: BorWin 2 (800MW) SylWin 1 (864MW) HelWin 1 (576MW) and HelWin 2 (690MW), resulting in a total of 2930MW

Siemens installed the world’s first commercial wind farm featuring 6MW turbines at Westermost Rough

Siemens is constructing the Pen Y Cymoedd wind power plant supplying 76 direct drive wind turbines of the D3-platform including a 5 year service agreement. This is the biggest direct drive contract Siemens has won in the UK and PyC will be the largest onshore wind power plant in Wales when completed (early 2017)

Siemens has delivered 152 of its 2.3 wind turbines to Clyde, which is currently one of Europe's biggest single consented wind power plants. The project was officially opened in September 2012

£4m has been invested in the wind power training school, part of the £9m Integrated Energy Services Training Centre in Newcastle. This centre trains the next generation of wind power service technicians (over 500 trained to date). This globally accredited wind power training school is unique in the UK, and is one of four Siemens centres globally

Siemens has installed both the world’s largest offshore wind farm (London Array – 175 turbines) and the world’s second biggest offshore wind farm (Gwynt y Mor – 160 turbines)

**General information: The UK wind market**

- Wind power capacity in the United Kingdom (UK) is roughly 13.65 gigawatts (GW) in 2016
- Wind power generates electricity for about 8.2 million homes in the UK
- Official statistics from National Grid show that 2015 was a record year for wind energy generation in the UK. With onshore and offshore wind farms supplying their largest ever amounts of clean electricity to Britain’s homes, factories and offices, wind power set new weekly, monthly, quarterly and annual generation records. 11% of UK’s electricity was generated by wind in 2015, representing an increase of 9.5% compared to 2014. More than 30% of UK households source electricity from wind power resulting in more than 6.7 million people being supplied with clean energy in 2015
- The UK has ambitious renewables targets (25% electricity from renewables by 2020) with offshore wind playing a lead role (15% of the energy generation mix)
• UK energy policy creates a favourable framework for the expansion of offshore wind energy. In particular, it recognizes the potential of offshore wind energy within the overall portfolio of energy production

The UK offshore wind market
• The UK remains the largest offshore wind market globally, with an installed operational wind capacity of 5.1 GW and 1,082 operating wind turbines
• UK offshore wind farms provide around 15 terawatt-hours of electricity annually, enough to supply around 3.5 million households
• Since December 2000 when the first wind turbines were commissioned off the UK coast at Blyth, 1,465 offshore wind turbines have been installed. The offshore wind market in the UK has great potential for the future: in addition to the capacity already installed a further 14.3 GW is either in construction or has planning approval

The UK onshore wind market
• Onshore Wind is now the UK’s largest source of renewable energy generation
• There are over 900 onshore wind projects, and over 5,200 turbines generating over 8.5 GW of electricity
• Industry projections see a total of 12-14GW installed by 2020, by which point onshore wind will supply over 10% of the UK’s total electricity annually