



REpower Systems SE – Brief Portrait

REpower is one of the leading system providers of wind turbines in the onshore and offshore sector. The international mechanical engineering company develops, produces and markets turbines with rated outputs from 1.8 to 6.15 MW and rotor diameters from 82 to 126 meters for almost any location. REpower also offers its customers project-specific solutions in the areas of service and maintenance, transport, installation and foundation layout.

REpower at a glance

- Technological leader and solution provider in the area of multi-megawatt wind turbines
- Group headquarters and development of the turbines in Germany; sales locations throughout the world in Europe, North America, Asia and Australia
- Founded in 2001
- about 2,700 employees worldwide
- Annual turnover 1.2 billion euros (financial year 2010/11)
- Fully-owned subsidiary of Suzlon Energy Ltd.
- Manufacture and installation of about 3,600 wind turbines with a total of over 6,230 MW worldwide
- To date, sole provider with unlimited unit certifications as defined by SDL WindV for the complete product portfolio (German ordinance on system services by wind energy plants); guarantees customers in Germany the highest feed-in tariff/ system service bonus (as at summer 2011)

Locations

- Corporate headquarters in Hamburg, Germany
- Development:
 - TechCenter in Osterrönfeld
 - Development site for offshore foundations in Osnabrück
- Production sites for nacelles and hubs:
 - Bremerhaven (onshore and offshore production: 5M, 6M, 3.XM series)
 - Husum (onshore production: MM series)
 - Trampe / Brandenburg (onshore production: MM series)
 - Oliveira de Frades, Portugal (onshore production: MM series)
 - Baotou, China (onshore production: MM series)

- Production sites for rotor blades:
 - Joint venture PowerBlades in Bremerhaven (Germany) and Vagos (Portugal)
- Subsidiaries, participations or sales partners in the core markets France, Great Britain, Italy, USA, Canada and Australia as well as in Belgium, Sweden, Poland, Portugal, Spain and China

Products

MM series

The MM series was introduced in 2002 with the MM70 (rated output 2 MW, rotor diameter 70 meters). Further development of this turbine resulted in the current product portfolio: the MM82 and the MM92 with a rotor diameter of 82 and 92 meters respectively and a rated output of 2.05 MW in each case. In 2010, REpower extended its turbine portfolio again: The MM100 with a rotor diameter of 100 meters and a rated output of 1.8 MW was specially developed for the North American 60 Hz market. Since September 2011 a 50 Hz version of the MM100 with 2,0 MW rated power is available too. It guarantees an outstanding efficiency at locations with low wind speeds.

As with all REpower turbines, the MM series offers a high degree of service friendliness and can already look back on a successful history with more than 2,000 wind turbines erected throughout the world. Thanks to this series, REpower has succeeded in becoming the first wind turbine manufacturer to obtain unlimited unit certification as defined by SDL WindV (German ordinance on system services by wind energy plants). This certifies complete fulfillment of the high requirements of the grid system in Germany and guarantees customers in Germany the highest feed-in tariff.

3.XM series

The 3.XM series has extended the onshore portfolio of REpower Systems SE since 2008: The REpower 3.4M104 with a rated output of 3.4 megawatts and a rotor diameter of 104 meters and the REpower 3.2M114 with a rated output of 3.2 megawatts and a rotor diameter of 114 meters utilize the proven and reliable technology of previous series. They are distinguished by their service-friendly design. Both turbine types are available in several variants with different hub heights between 80 and 143 meters and guarantee a high level of economic viability, even in less windy locations.

In conjunction with the three-megawatt variants, use of the modular hybrid tower concept represents a further technological advance. For hub heights greater than 100 meters, prefabricated concrete tower segments are used and extended by the proven steel tower. Similar to nacelle transport, standard transport and installation equipment can thus be utilized.

5M and 6M offshore turbines

The REpower 5M allowed the company to systematically extend its turbine portfolio in the multi-megawatt class a few years ago. With a rated output of 5,075 kilowatts and a rotor diameter of 126.5 meters, the 5M is one of the largest and most powerful wind turbines in the world. The prototype was erected in Brunsbüttel, Schleswig-Holstein, in the fall of 2004. A 5M was first installed offshore in August 2006 as part of an EU demonstration project off the Scottish coast. In the winter of 2008/09, the REpower 5M went into series production at the Bremerhaven site. The nacelles and hubs can be shipped to all corners of the world from here.

The technological refinement of the 5M, the REpower 6M, is also manufactured in Bremerhaven. Three test and reference systems of this turbine, which is especially suitable for deep water, were erected onshore on the German-Danish border in 2009. 48 REpower 6M turbines each are set for use in the offshore projects Thornton Bank II / III and North Sea East from 2012 onwards.

Pioneering projects

- Beatrice Offshore Demonstrator Project, UK: 2 x 5M (10 MW), 2006/07
- Thornton Bank Phase I (offshore), Belgium: 6 x 5M (30 MW), 2008
- Shiloh II, USA (California): 75 x MM92 (150 MW), 2008/09
- alpha ventus offshore test field, Germany: 6 x 5M (30 MW), 2009
- Les Hauts Pays, France: 39 x MM92 (78 MW), 2009/10
- Ciney, Belgium: 6 x 3.4M104, 100 m (20.4 MW), 2011
- Clauen, Germany: 2 x 3.4M104, 128 m hybrid tower (6.8 MW), 2011
- Ormonde Offshore Wind Farm, UK: 30 x 5M (150 MW), 2011

Further information and a large selection of printable photo material for downloading is available free of charge on the Internet site www.repower.de.

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