



Secure advance

One of the most powerful 6 megawatt wind power systems in the world with Bachmann technology



bachmann.



REpower Systems AG with headquarters in Hamburg (D) was established in 2001 and meanwhile is among the leading manufacturers of wind energy systems in the onshore and offshore area. The company concentrates on the development, production and installation of multi-megawatt equipment. The product portfolio encompasses wind energy system types with power ratings between 2 and 6.15 megawatts. For seven years now, Bachmann electronic has been a controller and systems supplier to REpower.

The most successful in its class

Today, Germany's third-largest wind power system manufacturer can make use of its experience gained in the production, project planning and erection of almost 2,000 wind energy systems worldwide with a total power rating of over 3,000 MW. With these systems, REpower sets standards and repeatedly provides systems that are among the most successful in their class. The high-yield and reliable systems are designed in Germany in the REpower development center in Rendsburg and built in the plants in Husum (North Friesland), Bremerhaven and Trampe (Brandenburg).

Partnership-based cooperation

"There has been a close cooperation with the development center in Rendsburg for many years. That includes help with system design and integration of innovative communication tools," says Klaus Pawlowski, sales representative for Bachmann electronic, and explains further: "We also support REpower in the adaptation of external systems, such as pitch control, or with control integration into higher-level networks based on standards, such as the wind power standard IEC 61400-25." Further, Bachmann electronic ensures the software compatibility of the various machines



▲ **One of the most powerful wind power systems in the world: 6M series from REpower Systems.**

with each other and secures the long-term compatibility of the employed M1 automation system. "From one of the first system generations in 2002, the 2-megawatt series 'mm82', to the newest systems, such as the '6M' with a power rating of over 6 megawatts, REpower has been able to build on the identical software system platform," says Klaus Pawlowski, describing one of the efforts that Bachmann electronic is happy to make for the successful wind power system builder.

One of the most powerful wind power systems in the world

With the "6M" series, REpower now has one of the world's most powerful wind energy systems in its portfolio. The automated offshore turbine, also with the Bachmann M1 system, has a guaranteed electrical power rating of 6.150 kW. The system has a rotor diameter of 126 meters with a hub height of 80-95 meters in offshore use and 100-117 meters in onshore use and, when erected on the open sea, can supply electricity to up to 5,400 households. Particularly in the case of offshore use, in which the sea-built systems can be reached for servicing on just a few days due to weather conditions, high reliability of the components used is essential. "The high availability of the Bachmann M1 automation system really convinced us," confirms Guntram Kunft, Head of SCADA Development at REpower.



