Complete Solutions
**Full Turbine Life-cycle Provider**

**We Make Wind Competitive**

Mita-Teknik has been in the business of control automation since 1969. Our track record is continuously proven, as more than 50,000 wind turbines equipped with our control systems, daily deliver optimal performance and unsurpassed reliability.

Our mission to Make Wind Competitive applies to everything we do, and every product and service in our portfolio is designed with the primary objective to optimize your production, improve your bottom line and make you more competitive.

Mita-Teknik’s primary focus has always been aimed towards the OEMs of the wind industry and it still is today. We have successfully handled projects ranging from a few kW to large MW setups, on- and offshore. In addition to our OEM offerings, we also offer a cost-competitive Retrofit solution that satisfies the steady growing aftermarket segment.

**Complete System Integrator**

Mita-Teknik offer everything in Turbine Control, Electrical Pitch, Condition Monitoring, SCADA, Optimization, Retrofit and Customer Partnering - all designed to provide our customers with high yield cost-optimized wind turbine operation and maintenance.

With Mita-Teknik you will experience the true value of full-service control system integration.
**Turbine Control**

Our Turbine Control solutions consist of three main platforms: the WP4200, WP100 and WP3x00 MK II. With these platforms, Mita- Teknik is able to provide superior control and performance to any wind turbine, whether its small wind, MW or Retrofit. Adding the MiConnect Mobile Diagnostic App to the solution, you will be able to monitor and visualize the wind turbine operation process via your smartphone or tablet.

**Park Control**

Our Park Control solution consists of our field-proven hardware, developed for harsh on- and offshore environments, as well as multiple software packages optimized specifically to your location. With the Park Control solution it’s possible to control and monitor from 2 to 2500 wind turbines in 0 to 50 clusters. Combined with our SCADA system you are able to control and monitor all local, regional and global parks from the same office.

**Pitch Control**

The Mita-Teknik Pitch systems are a range of complete electrical pitch systems designed for on- and offshore wind turbines up to 10 MW. To optimize the power curve and to apply minimum load to the structure, it is necessary to regulate the aerodynamic power. This is done by pitching the rotor blades collectively (CPC) or individually (IPC) to maintain rotor speed at optimum, while at the same time keep the rotor speed below maximum.

**Communication Network**

Connecting wind turbines and parks to the Internet is a security risk. For safety purposes, today’s wind parks require safe, field-proven and reliable communication. Our SCADA system, combined with the ER1000 Gigabit Ethernet Router and ES1000 Gigabit Ethernet Switch makes park monitoring safe, easy and secure. ER1000 and ES1000 give you the benefit of connecting turbines in a wind park, and making them online accessible from anywhere in the world.

**SCADA**

Our SCADA MiScout solution provide you with the features, flexibility and services you need to gain greater control of your wind turbines or park. We provide one of the most complete SCADA solution in the wind industry today. Whether you are an owner, operator or service engineer, you will find that we have a solution that will cover your every need when it comes to monitoring, controlling and servicing your wind turbines.

**Grid Connection**

Our patented Grid Connection Module WP4060 is developed for soft connection of asynchronous wind turbine generators to the grid. The WP4060 ensures effective current control before, during and after the synchronous point. The soft connection principle ensures a remarkable reduction in net disturbances and wind turbine wear, and the controlled connection can be configured for both strong and weak net conditions.

**Condition Monitoring**

With the MiCMS Condition Monitoring System, you can perform predictive maintenance and avoid unplanned costs. MiCMS helps you reduce the overall maintenance costs, while at the same time improve the reliability and availability of your turbine. With up to 16 IEPE type accelerometers strategically placed on the drive train, MiCMS monitors the drive train components, such as the gearbox, generator, main bearings as well as the tower.
Power Panels

Our competent engineers and technicians are dedicated to ensure high quality and cost-effective power panels. We offer; control panels for wind turbines, wind park control panels, customized pitch boxes, PC climate racks for SCADA equipment and LVDP-Low Voltage Distribution panels. Customers benefit from our large, very experienced and highly flexible supply chain, with production units in Europe and Asia.

Customer Partnering

The best solutions are created when we join forces to design and customize a solution that fits your individual needs. With a wide range of different services, we provide professional support for our customers as part of our Customer Partnering Concept, including know-how based needs assessment, design & engineering, world wide field service, repair & maintenance and customer support.

Accessories

Mita-Teknik offers a range of accessories designed for the wind industry. We find the accessories necessary to ensure that your wind turbine is stable and efficient, based on your specifications and experience. The accessories from Mita-Teknik are all developed, tested and certified for the wind industry and are fully integrable with all Mita-Teknik Control Systems.
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