

Danish Company Launches Intelligent Wind Power Technology

Intelligent control systems have taken over the wind industry. The Danish company, Mita-Teknik, leads the drive for innovative solutions with its new generation of control systems that ensures higher profits, performance and Levelized Cost of Energy (LCOE) for larger wind farms.

Mita-Teknik, who provides state of the art technology for the renewable energy market, especially for wind turbines, has launched a new and advanced control system that secures the future of the world's wind farms. The control system is the backbone of the turbine as it controls the whole operation.

- With the next generation of the WP4200 Control System, our company goes from producing systems with singlecore to multicore processors. Compared to other solutions on the market, we deliver a very competitive control system. Our solution provides customers with a user-friendly system with the power to process large amounts of data, says Thomas Andersen, CTO at Mita-Teknik.

- This means that the turbine can produce and process data itself. The turbine can learn from the results and optimize or respond to immediate changes in its operation. Until now, you had to transfer data from the turbine to an external system to process large datasets - with the risk of slow processing or even lose data. Our system solves these problems by processing the data inside the turbine. The control system also provides a high level of data security that safeguards the turbine against external threats.

Intelligent algorithms

Mita-Teknik has great expectations for its next generation of control systems equipped with intelligent algorithms and software geared to adapt future application software. The control system is open, and the customer can easily navigate in the system and add new applications to suit their needs.

- Each individual module is intelligent and can tell us about its condition. It also has a processor that allows the customer to change the behavior of the different applications. You can, for example, add Machine Learning algorithms to optimize the performance and maintenance of your turbine. You can easily install extra applications because of the powerful system that runs up to ten different applications at the time, says Thomas Andersen.

Grand expectations

The control systems' flexibility is a great advantage because different regions of the world require wind turbines to operate in diverse ways. Instead of changing the turbine's software, you can simply add an extra application to meet your immediate demands. The next generation of control systems are on the market from mid-March 2018, and Mita-Teknik expects to increase its markets shares in Asia, America and Europe.

- We aim to provide state of the art technology for the lowest costs through-out the wind turbine's life cycle. The market demand is to reduce costs on all parts of the turbine while enhancing quality and performance. Our customers achieve both with the new generation of the WP4200 Control System, says Thomas Andersen.

About Mita-Teknik

Mita-Teknik has produced control systems for various industries since 1969 and been a part of its beginning in the 1980's. Today, more than 50,000 wind turbines worldwide are controlled and monitored by Mita-Teknik's control systems. Mita-Teknik runs their activities from Rødkærsbro in Denmark, Lviv in Ukraine, Ningbo in China and Chennai in India. Mita-Teknik has approx. 220 employees. Learn more at www.mita-teknik.com.

For further information, please contact:

Thomas Andersen, CTO

E-mail: ta@mita-teknik.com - Phone: +45 2236 8605