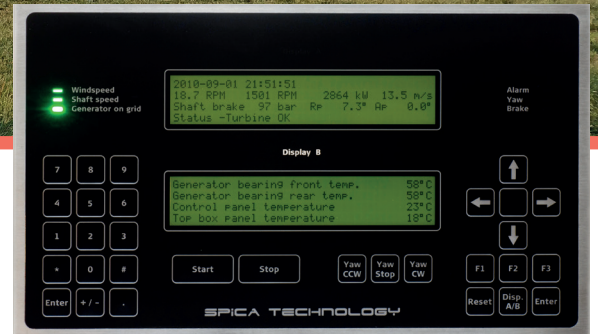


# It did not take long before we experienced major positive progress

Jeppe Lyngaae, Senior Technical Manager,  
Momentum Gruppen.



Press release:

## An entire wind farm retrofitted with a new control system for the first time in the Danish wind turbine industry

**Denmark: Within a few weeks, Spica Technology has retrofitted an entire wind farm in Arrild. The Danish wind farm consists of 12 Wind World W4200 600kW turbines that has been retrofitted with a new control system.**

The 12 wind turbines that are placed in the southern Denmark are owned by Green Power Partners and managed by Momentum Gruppen. The turbines' mechanical condition is good, but Momentum experienced several turbine challenges before the retrofit project:

- Continuously stops and errors.
- Limited access to troubleshoot causes.
- Limited access to spare parts for the original control system.

For Momentum, repowering was not an option due to the turbines' good mechanical condition. The turbines are still set for years of operation and placed in an area that is not cut for repowering in the coming years. For that reason, Momentum needed a future-proof solution that could resolve their challenges and a solution that are based on contemporary components.

### A simple solution

It was important for Momentum that the solution was familiar with a control system from the most common wind turbine types in

Denmark - a simple solution with a known structure and a known user interface - for the sake of their service technicians.

*"I have followed Spica Technology throughout the years since their first Micon retrofit, steadily developing a consistent solution fitted for other types of wind turbines. The knowledge of their experience and their number of retrofits with satisfied customers made me comfortable in recommending the Spica Retrofit Controller for our client Green Power Partners,"* says Jeppe Lyngaae, Senior Technical Manager for Momentum Gruppen.

### Remote access to solve challenges

After the retrofit installation of entire new control systems in the 12 Wind World W4200 turbines, Momentum experienced a far better direct access to the current operation of the turbines and the possibility to solve several challenges with remote access.

The Spica Retrofit Controller with Spica Control System helped Momentum to:

- Compare data between the turbines.
- Predict and optimise maintenance.
- Customise settings and parameters.

### Accurate and consistent data

*"As the first turbines were retrofitted, it did not take long before we experienced major positive progress with the turbines. With more accurate and consistent data from the turbines, we can now troubleshoot the causes that interrupt the operation,"* explains Jeppe Lyngaae and continues:

*"Now, the turbines deliver far more flawless operation than before. Since the retrofit installation, there has been strong indications that the operation will be dominated by planned maintenance visits rather than service calls with limited troubleshooting in the control system like before."*

**Get a demonstration:** Visit our stand no. 1-D52 in hall 1 at WindEurope Conference & Exhibition April 2-4 2019 in Bilbao



# The turbines deliver more flawless operation than before



Jeppe Lyngaae, Senior Technical Manager,  
Momentum Gruppen.



## About Momentum Gruppen A/S About Spica Technology ApS

Momentum Gruppen A/S is one of the largest management companies in Denmark - a leading, independent provider and manager of solar and wind energy projects.

Momentum Gruppen manages assets worth more than 4 billion DKK and administrates solar farms and wind turbines with a combined output of +600 MW divided on +400 wind turbines and 25 photovoltaic systems.

Momentum Gruppen has successfully acquired the Spica Retrofit Controllers in their portfolio of wind turbines under their management.

With the Spica Retrofit Controller, the 12 Wind World W4200 600kW turbines in Arrild wind farm are now installed with Spica Control System and Spica Dual Display in the turbine tower for a more optimised and consistent operation and management.

Spica Technology ApS is an international engineering company dedicated to the wind power industry.

Since 1997, Spica Technology has developed, produced and installed innovative software, electronics and electrical equipment in new and existing turbines - both onshore and offshore. Specialised in control systems, Spica Technology has delivered to customers around the world in the wind power industry.

With many years in the industry, Spica Technology holds considerable experience and know-how which has given a unique position as a manufacturer of customised solutions for wind power OEMs, service companies, and consultant/engineering companies on a worldwide scale - taking on projects from small one-day projects to large-scale engineering projects.

## Learn about Spica Retrofit Controller

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- Web: [www.spicatech.dk](http://www.spicatech.dk)

## Or visit Spica Technology

April 2-4 2019

WindEurope  
Conference & Exhibition

Bilbao Exhibition Centre

Stand no. 1-D52 hall 1