



**ROMO WIND**  
WIND KNOWLEDGE IS WIND POWER

**High Quality**

Due to its unique placement on the spinner, iSpin provides:

- High quality data**
- Advanced anemometrics**

**Precise measurements of**

- Wind Speed
- Wind Direction
- Turbulence intensity
- Inflow angles
- Yaw misalignment

**Independent recommendations**

nabla wind power

**Hybrid Data Analytics**

**Born from market feedback**

- Combines** Data Analytics with Physical models in a Hybrid Data Analytics approach
- Delivering** key health monitoring on structural components real time
- Key inputs** for advanced O&M best practices
- Leading to** real Condition Based and Predictive Maintenance for the complete turbine

**Bringing knowledge to reduce costs and risks**

Vitoria-Gasteiz, Spain and Zug, Switzerland, May 2019

## **Nabla Wind Power and ROMO Wind AG collaboration to boost independent wind turbine lifetime optimization**

**The collaboration between Spanish Nabla Wind Power’s hybrid data analytics tool and ROMO Wind’s unique iSpin technology promises great advances in independent wind turbine lifetime monitoring and optimization.**

Wind conditions are the main contributor to uncertainties for wind turbine life-time evaluation and optimization. The combination of advanced wind measurements from iSpin and independent, turbine specific aeroelastic models from Nabla significantly improves the ability to evaluate and monitor remaining useful lifetime of wind turbines. This leads to a key element in a condition based and predictive maintenance for structural components. Operators can now make better informed decisions on how to best manage their wind farms and extend the lifetime of their turbines. Nabla Wind’s Managing Director Ruben Ruiz de Gordejuela states “Advanced anemometrics is one of the

key elements in a sound, robust and reliable life extension, since it enables advanced life extension and performance improvement techniques. Turbine structures can be unlocked once their detail demands are known, which is achieved by the merge of best-in-class real time wind measurements and structural modeling.” Brian Sørensen, CEO ROMO Wind adds “With this first-of-its kind collaboration in the retrofit wind market globally, ROMO Wind and Nabla Wind Power have put together a unique product offering, which combines the High Quality of iSpin, and the sophisticated Data Analytics with physical aeroelastic models from Nabla, to create the most complete performance improvement and life time extension enabler in the market”

ROMO Wind AG is the exclusive provider of the iSpin spinner anemometer. As the only spinner anemometer on the market, iSpin measures the wind at the tip of the hub in front of the rotors with unparalleled precision. ROMO Wind’s iSpin technology is the leading and most competitive advanced anemometry system which allows manufacturer-independent performance monitoring, targeted load reduction and insights into all relevant wind parameters such as turbulence intensity, flow inclination and actual wind conditions. iSpin ensures that wind farm owners can identify, optimize and extend the potential of their turbines.

Nabla Wind Power is one of the leaders in Life Extension and Asset Re-Development in the market, after starting as one of the pioneers in extending life of wind farms. Nabla’s technology relies on best in class independent aeroelastic models which come as the result of Nabla team’s experience in turbines design and manufacturing. With a multitechnology and independent approach Nabla goes beyond life assessment to cover a full end-to-end value proposition for life extension of wind farms, including advanced life extension techniques, performance improvement and maintenance engineering, bringing knowledge to risk and costs reduction.

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Further information on iSpin technology and images for free editorial use: [www.romowind.com](http://www.romowind.com)