

## EMPOWERMENT TO RUN SAFE AND EFFICIENT OPERATIONS AT SEA



For more than 30 years, Miros has provided accurate, reliable ocean insights and weather monitoring systems to the global offshore market with the objective to enhance weather windows and operational safety in harsh offshore environments. Our expertise is measuring local environmental conditions and making the data accessible in real-time, on- or offshore. Miros is a trusted provider of reliable, real-time wave

and surface currents data to both fixed and floating offshore wind farms.

Miros's solutions collect data directly to the cloud utilizing dry, IoT-enabled sensors, providing real-time and historical data to all life-of-field interfaces, anytime, anywhere. The enhanced situational awareness increases safety at sea and optimizes operational weather windows.

### **The challenge with offshore wind operations:**

- High operational costs
- Time wasted waiting on weather
- High costs related to maintenance of wave buoys
- Extensive use of forecast rather than real time data
- Increased safety risk when approaching weather related operating limits
- Lack of easily documented actual weather and impact on performance.

### **Miros provides a holistic end to end localised environmental monitoring solution:**

- 15%<sup>1</sup> increased operational uptime for construction and service vessels
- Low maintenance costs. Remote upgrades and online diagnostics make our solution cost effective
- Increased safety and efficiency offshore
- Accurate real-time data delivered to any device
- Life of field historical data readily available to all stakeholders off- and onshore
- More than 30 years' experience providing our clients with tailored Met Ocean and Oceanographic monitoring solutions that are fit for purpose.

<sup>1</sup>For northern North-sea locations for planned operational period of less than 4 hours and a vessel design wave height of 3.5 m.

Miros' portfolio of dry, remote sensors are truly plug and play – only power and LAN is required to install. With online diagnostics and upgrades, embedded processing and a browser-based user interface the sensors are extremely low maintenance and cost efficient.

*Miros Group has been a trusted provider of reliable wave & current measurements to some of the world's largest ship owners, operators and oil companies for more than 30 years.*

The Siemens logo is the word "SIEMENS" in a bold, teal, sans-serif font.The E.ON logo is the word "e.on" in a red, lowercase, sans-serif font, with a stylized dot for the 'e'.