

InnoEnergy-backed EOLOS launches first ever floating LiDAR in Polish Baltic region

The buoy will deliver accurate wind, wave and current data to inform the development of a major new offshore windfarm

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[EOLOS](#), the leading floating LiDAR solutions provider backed by [InnoEnergy](#), announces the deployment of the first floating LiDAR in the Polish Baltic region. The in-house designed buoy has been targeted to cost-effectively provide wind, wave and tidal data at industry-leading standards of bankability for the duration of a two year-long project measurement phase.

The LiDAR, which has been validated as Stage Two for data bankability by the Carbon Trust, will now provide real-time measurement data for the duration of its time at sea. This data will be used to inform the precise specifications for a 1GW offshore windfarm that has been planned for the area.

Rajai Aghabi, CEO at EOLOS, says: “This is a very proud day for all of us at EOLOS. By launching the first floating LiDAR into the Polish Baltic territory, we are not only helping our customer to optimise the development of a new windfarm, but we are also enabling Poland to take another step forward in its transition to renewables. Furthermore, we are announcing our own transition from an innovative start-up into a true industry player; leading the way in measurement for offshore wind across the continent.”

Diego Pavia, CEO at InnoEnergy, the innovation engine for sustainable energy across Europe supported by the EIT, says: “EOLOS is one of the great InnoEnergy success stories and a fantastic example of our partnership model at work. Since our investment in the business four years ago, we have supported EOLOS as it has gone from strength-to-strength, establishing itself as one of the leading companies in a competitive and cutting-edge sector. The launch of this LiDAR is another huge step on its journey towards commercialisation.”

The EOLOS buoy is a fully autonomous, renewable energy powered all-in-one system which can accurately measure wind, wave, tides and currents. It is based on a structural skeleton and mooring system to provide the necessary robustness to withstand rough marine environments while at the same time reducing the weight of the system. It uses the best-in-class ZephIR 300M LiDAR device.

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About EOLOS

EOLOS Floating Lidar Solutions offers a cost-effective, accurate and highly reliable integrated wind measuring system for offshore applications.

Offshore wind farm investments need reliable wind assessments in order to estimate the wind energy potential of the site where the wind turbines will be installed. Performing wind assessments with no high quality on-site data increases the uncertainty, hindering the project's bankability and increasing the financial risks of the project.

EOLOS can help offshore wind developers to significantly reduce capital costs during the development phase, when the final investment decision (FID) has not yet been reached, thus reducing a significant risk since at this stage only a portfolio approach hedges against failure.

The EOLOS LiDAR Buoy is a fully-equipped and autonomous wind, wave and current measuring system based on LIDAR technology and provided with oceanographic instrumentation, which allows to perform measurements at heights of more than 200m over the sea level at much lower costs than conventional bottom-fixed offshore met masts.

About InnoEnergy

InnoEnergy is the innovation engine for sustainable energy across Europe supported by the EIT.

We support and invest in innovation at every stage of the journey – from classroom to end-customer. With our network of partners, we build connections across Europe, bringing together inventors and industry, graduates and employers, researchers and entrepreneurs, businesses and markets.

We work in three essential areas of the innovation mix:

- Education to help create an informed and ambitious workforce that understands the demands of sustainability and the needs of industry.
- Innovation Projects to bring together ideas, inventors and industry to create commercially attractive technologies that deliver real results to customers.
- Business Creation Services to support entrepreneurs and start-ups who are expanding Europe's energy ecosystem with their innovative offerings.

Bringing these disciplines together maximises the impact of each, accelerates the development of market-ready solutions, and creates a fertile environment in which we can sell the innovative results of our work.