

Wärtsilä Unveils Targetless Laser Sensor for Offshore Wind Farms



Wärtsilä has launched SceneScan, a targetless laser sensor for offshore wind farms. SceneScan Monopole is among the first laser sensors developed for offshore wind farm applications where the need for installing fixed reflective targets is eliminated. This technology is designed to increase safety onboard service operation vessels (SOVs), since vessel positioning sensors that rely on targets

fixed to the structure, are often unreliable because of poor placement, poor quality, and obscurement by workers on the platform. SceneScan has been designed and developed by Guidance Marine, which was acquired by Wärtsilä in 2017.

SceneScan Monopole's advanced software allows the measurement of range and bearing to the offshore wind turbine, independent of the use of targets and GPS. The technology is highly applicable to China's developing offshore wind market, as well as for North Sea wind farms. The first Monopole was delivered in summer 2018 for a Chinese SOV newbuild project carried out by GE Power Conversion, a subsidiary of General Electric.

Advancing safety around wind farm structures

"This first of its kind SceneScan is compatible with all Dynamic Positioning systems on the market, and is designed for one of the most demanding applications. It embodies our Smart Marine vision, where the latest and most advanced technologies support greater efficiency and enhanced operational safety," says Dr Sasha Heriot, business development manager, navigation, communication and sensors at Wärtsilä.

The system successfully underwent sea trials earlier this year onboard the Windea La Cour, a purpose-built SOV owned by Bernhard Schulte Offshore. The vessel is fitted with other Wärtsilä sensor solutions, including the RangeGuard Monopole, the first targetless local position reference sensor based on radar technology.

<https://www.hydro-international.com/content/news/wartsila-unveils-targetless-laser-sensor-for-offshore-wind-farms>
