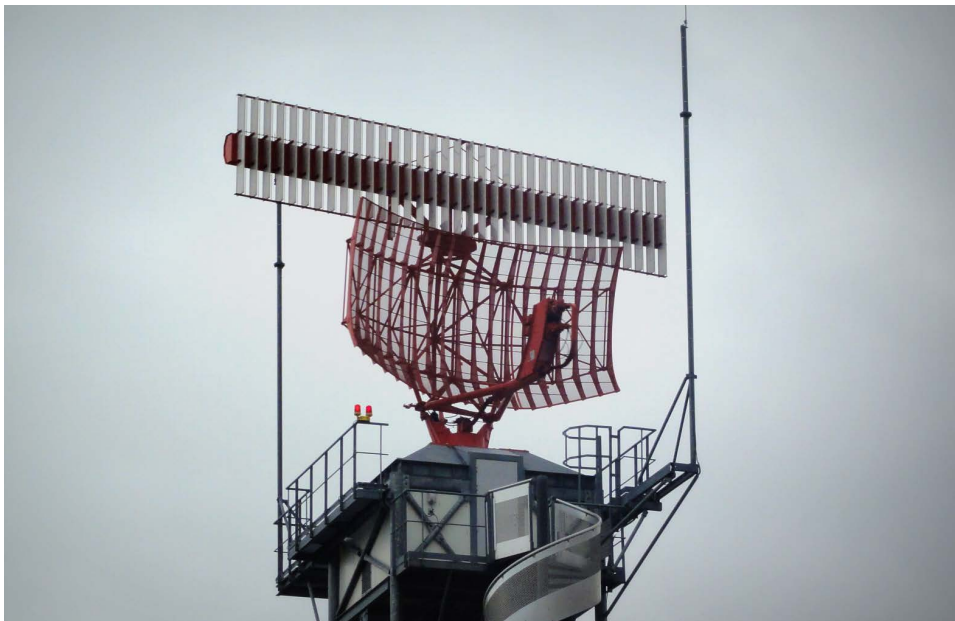


SCORE CASE STUDY



ABOUT PAGER POWER

Pager Power was founded in 1997 as specialists in assessing and solving worldwide planning solutions for radar interference, radio links, airport obstructions and renewable energy.

The company has a team of specialists capable of assessing and providing highly detailed analysis and advice for projects all over the world.

www.pagerpower.com

SCORE FUNDS PAGER POWER'S RADAR INTERFERENCE SOFTWARE FOR WIND FARMS

When it comes to developing planning solutions to overcome radar interference and similar obstructions, Pager Power is one of the leaders in the field. SCORE funding of over £17,000 has enabled the innovative Sudbury based company to progress a project to enhance its software to meet the specific needs of offshore wind developers, by incorporating wave and tidal data into the software.

Pager Power's pioneering software is able to assess the impact of wind farms on radar and radio systems. The system provides data that dramatically reduces potential planning objections arising as a result of prospective wind farms' locations interfering with the radar systems used by air defence and air traffic for control purposes.

To detect interference to radar systems Pager Power uses a combination of radar line of sight and detectability assessments. The crucial element in both of these assessments is the surface profile between the radar and the wind turbine; the system uses automatic digital terrain or surface data to achieve its results. Pager Power's approach is particularly innovative in comparison to competitors because it uses a weighted average algorithm optimised for accurately determining whether a wind turbine is within radar line of sight.

SCORE funding is enabling Pager Power to further develop the processes it uses for generating surface profiles.

The software has been enhanced by the addition of wave and tidal data, which takes into account the ever changing landscape particularly in the Southern North Sea, and enables even more accurate assessments of possible interference to be generated.

The newly available data can play a significant role in reducing the time required to achieve successful planning permission for new farms.



Mike Watson, chairman of Pager Power, comments, "The inclusion of wave and tidal data into our assessment software gives us a real advantage over the competition and our new software has the potential to have a substantial impact on the future growth of offshore wind farms. The ability to have sight of accurate assessments of any potential interference new turbine developments may have dramatically reduces the risks involved in submitting costly planning applications that have the potential to fall at the first hurdle, and we believe will bring benefits to wind farm developers and radar operators alike.

"Without SCORE funding this project would simply not have been able to happen in this form. The application for SCORE funding was a refreshing change from other grant programmes as it was not about form filling, but simply involved writing a plan of what we were looking to do and why."

To contact OrbisEnergy, please call 01502 563368 or email orbisenergy@nwes.org.uk



NWES AND ORBISENERGY

The Supply Chain for Innovation for Offshore Renewable Energy (SCORE) is a European Regional Development Fund (ERDF) programme, delivered by Nwes.

Nwes manages the OrbisEnergy building, which is owned by Suffolk County Council and is a worldwide centre of excellence for the burgeoning offshore renewables industry. With the southern North Sea emerging as the international proving ground for large-scale offshore wind farms, OrbisEnergy is the flagship location for businesses keen to capture the economic benefits from offshore wind, wave and tidal technologies

www.nwes.org.uk
www.orbisenergy.co.uk

