Wind Farm case study

PRO CYBER SECURITY

Building Cyber Resilience into Offshore Wind

This project showcases how early-stage risk assessment, supply chain collaboration, and alignment with ISO/IEC 62443 standards enabled Inch Cape Offshore Ltd to securely manage critical OT/ICS infrastructure and ensure safe remote access for third-party support teams.

"Our experience with PCS has been excellent, and the service provided is of a high standard."

Mohamed, Inch Cape Offshore Ltd

Situation

Inch Cape Offshore Ltd (ICOL) were building a new wind farm off Scotland's east coast and engaged PCS to ensure that their platform and supporting infrastructure were secure from the outset.

The solution involved both IT and OT/ICS components and required secure remote access for third-party maintenance providers. Ensuring robust, standards-based security was critical from the outset.

Task

PCS was tasked with developing supplier security requirements, conducting risk assessments across key systems and subsystems, and ensuring alignment with ISO/IEC 62443. We also supported the creation of ICOL's security policy, including codes of connection and operating procedures.

Activity

Our experts worked closely with ICOL and their supply chain partners through regular meetings, workshops and remote collaboration, both in the UK and overseas. This engagement helped us understand the technical and operational landscape, identify key risks, and recommend tailored mitigation strategies.

Result

This integrated, collaborative approach led to strong, standards-aligned security measures and helped establish trust across the project's stakeholders; supporting the safe, remote operation of wind turbine systems from day one.

Keywords: ISO/IEC 62443, IT, OT/ICS, SCADA, Energy, Renewables, Wind Farm