Quick connections for dynamic cables

Apollo is advancing quick-connect technology to reduce the cost and complexity of floating offshore wind. By enabling faster, more reliable connection and disconnection of moorings and cables, they are helping drive down installation time, maintenance costs and overall LCOE.

Before

With 15 years' experience in fixed-bottom offshore wind, Apollo was expanding into floating offshore wind to support the sector's next phase of growth. Through research, they identified quick-connect systems as a key opportunity to reduce installation and maintenance costs. They had already begun developing their PALM QCS device but needed support to adapt and position the technology for floating offshore wind applications.

During

Through OWGP funding, Apollo progressed an engineering design project to adapt PALM QCS for floating offshore wind, including integration with existing technologies. The work validated performance through engineering analysis and delivered a clear route to commercialisation. Additional support through the WEST programme helped refine their market strategy, accelerate product development and identify the most valuable commercial opportunities.

After

Apollo has advanced PALM QCS from early-stage development to a commercially viable solution, with clear scalability and cost benefits for floating offshore wind. The technology has progressed through key readiness levels and is now being prepared for full-scale deployment, supported by further innovation funding and growing industry interest.

How does this help deliver the IGP?

- Reduces installation and maintenance time for floating wind infrastructure
- Lowers LCOE through faster, more efficient connection systems
- Supports innovation in floating offshore wind technologies
- Strengthens UK capability in subsea and mooring systems

Faster, simpler connections are cutting costs and complexity, unlocking more efficient floating offshore wind deployment.

Advanced to **TRL6**

Pilot deployment targeted for **2026–27**

> "OWGP proved our concept could cut costs and unlock floating wind potential."

Nigel Robinson
Marine Energies Director | Apollo
apollo.engineer

Future electrical systems and cables