8.2 Aarufield
Engineering Excellence in Renewable Energy
8.2 was established to bring industry leading experts, engineers and technical “boots on the ground” to the asset owner with a depth of technical and engineering knowledge and expertise usually not available outside the turbine manufacturers’ area.
## 8.2 Group - What We Offer

### Contracting
- Technology Selection
- Supply Chain Diligence
- Financial (Investment) Diligence

### Manufacturing
- Production Monitoring
- Production “Gold Standard” for First Equipment
- Ongoing snagging of following equipment to the required standard

### Pre-Assembly
- Inspection
- Schedule Monitoring
- Snagging List Progress

### Installation and Commissioning
- Inspectors Offshore
- Quality Monitoring

### Warranty Period
- Adhesion to Contract
- Conflict Issue 3rd Party
- Expert Witness

### End of Warranty
- Full Inspection Capability
- O+M Strategy

### Post-Warranty
- Defect Analysis
- Long-Term Inspection Framework

### Advisory

### Preventative

### Reactive

### Corrective
Sector Planning and the industrial strategy
- Clean Growth Strategy
- Offshore Wind UK sector deal
Main points affecting ORE:

- Up to £20m to support clean technology early investment fund
- Pot 2 CfD Auction - £557m approx. 10GW
- Remote islands access to Pot2
- £177m “to further reduce the cost of renewables, including innovation in offshore wind turbine blade technology and foundations”
  - Presumable via Research Councils and Innovate UK
  - Renewables not just offshore wind
  - Blades and foundations…….???
- Nuclear stuff…
- Wave & tidal could have role but have to demonstrate how
- Replacement for Levy Control framework
- New innovation opportunities – floating wind, advanced solar
- Solar without subsidy
- Funding from £200m RDPE274 programme for renewables linked to battery storage
Claire Perry (Energy Minister) three tests for innovation:

- Cost reduction pathway
  - Think cost, price, investment risk and volume

- Competitive advantage
  - For the UK

- Maximum carbon emissions reduction
Offshore wind’s sector deal will set out the route to deliver 50GW (50%) of UK power by 2050, delivering 50,000 high value jobs across the UK.

It will look to “transform places, transform people and transform our power system”

- Places – supply chain locations, ports, hubs of expertise
- People – training, skills, schools, skills transfer
- Power – flexible, predictable, integrate with storage, route to test and implement balancing and storage innovation
Offshore Wind sector deal vision

- Sector Deal
- Transforming the UK’s Energy System
- Offshore Wind Sector Deal
- Economic Growth
- Increase UK share of Global Market and Exports
- Contribute to the UK's decarbonisation obligations
- UK as No1 on global stage
- Cross sector collaboration
- Attracting inward investment
- Transforming industry impact
- Secure jobs through skills transition from Oil to wind
- Converting offshore Oil/Gas wells into future energy stores, re-use infrastructure
- Improved air quality, quieter production: enhanced life quality
- Academic excellence: industry R&D with indirect collaboration
- Best graduates, upskill traditional industries
- Digital capture and dark data use improves forecasting
- Lower energy prices, consistent supply: reduced fuel poverty
- Supply chain opportunities across the UK
- EVs - low carbon transport & storage
- Thriving coastal communities
- Smarter networks, greater resilience
- European grid connecting wind farms, storage & transmission
- Warm homes, reduced EWDs