

O&M Subgroup Workshop

Fraserburgh, 21st September



Programme

- DeepWind Update – Paul O’Brien
- Fraserburgh Harbour Commissioners – Pamela Neri
- Moray East Wind Farm - Ocean Winds – Gary McGougan
- North East Scotland College –
- Q&A Session

Cluster Update

O&M Subgroup Workshop, Fraserburgh, 21st September



Membership Update



- Main cluster is now 755 members
- O&M Subgroup = 168 members.
- Our updated web site is now live on the Offshore Wind Scotland website - <https://www.offshorewindscotland.org.uk/deepwind-cluster/>

Events and activities



NnG O&M Business Breakfast

Date: 28th Sept

Time: 08.30am-10.00am

Venue: Eyemouth Golf Club

To attend email or text your details:

Email: nng@sprengthomson.com

Text: 07803 970103



Events and activities



WindEnergy Hamburg 2022

Date: 27th-30th Sept

SDI Scottish pavilion – 30 plus members involved.



Events and activities



Floating Wind 2022

Date: 12th-13th October

Venue: P&J Live, Aberdeen

renewableUK scottish renewables

#FloatingWind22

FLOATING OFFSHORE **WIND**

12 - 13 OCT
2022
ABERDEEN

HEADLINE SPONSOR |



EVENT PARTNERS |



Ørsted

CATAPULT
Offshore Renewable Energy

RWE



Events and activities



Week of Floating Offshore Wind 2022

10th-11th October – Thistle Wind Partners ScotWind Supply Chain events

Venue: Maryculter House Hotel

Time: 9.30am-11am each day

11th October – DeepWind/Norwegian Offshore Wind Workshop

12th October - DeepWind/Norwegian Offshore Wind EPCI event

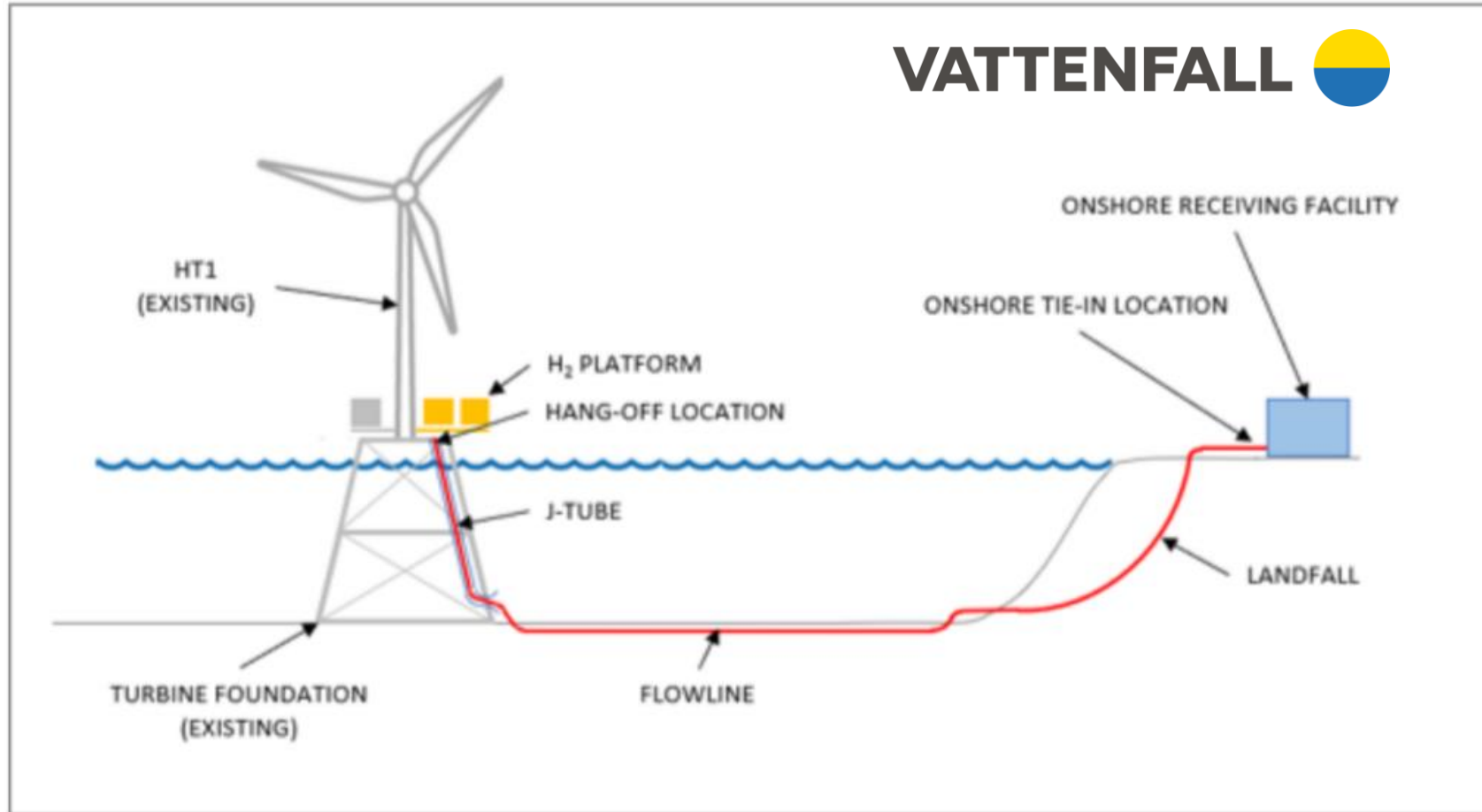
11th October – Pentland Offshore Wind ‘Meet the Developer’ event

Venue: P&J Live

Time: 1pm-4.30pm

Hydrogen Turbine 1

VATTENFALL



HT1 project

- Vattenfall will use one of its 8.8MW turbines at its Aberdeen Bay wind farm to produce hydrogen offshore.
- A pipeline will deliver the hydrogen to the Port of Aberdeen in 2025
- Seawater desalination will be utilised at the wind turbine to produce the hydrogen

Thank you

Fraserburgh, 21st September





Fraserburgh Harbour

Experienced in O&M



Fraserburgh's journey to O&M



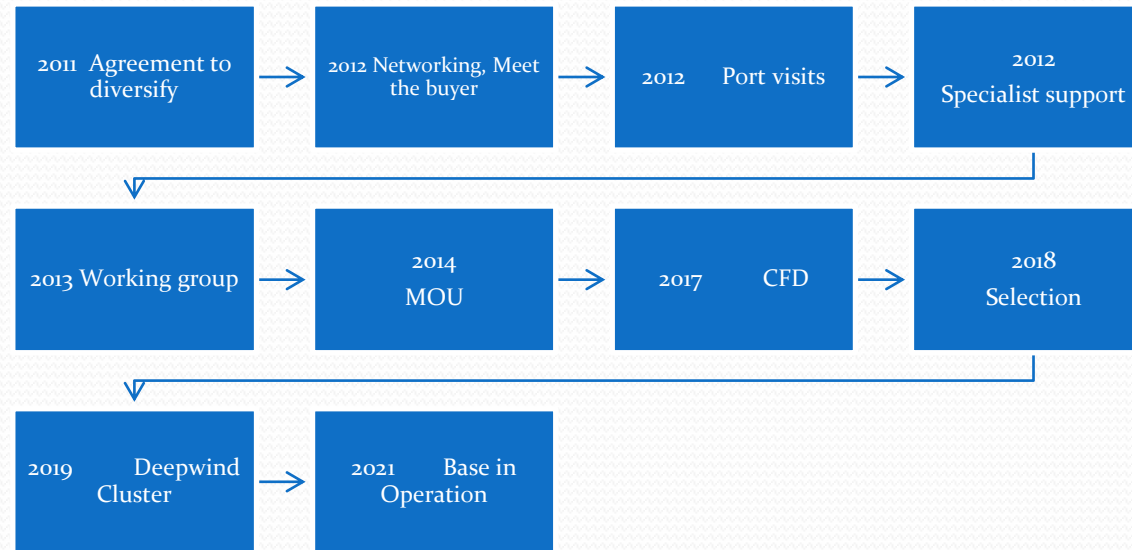
Copyright: Broch Photo House



Copyright: unknown



Fraserburgh's journey to O&M



2011



2012 - 2013



2014 - 2015

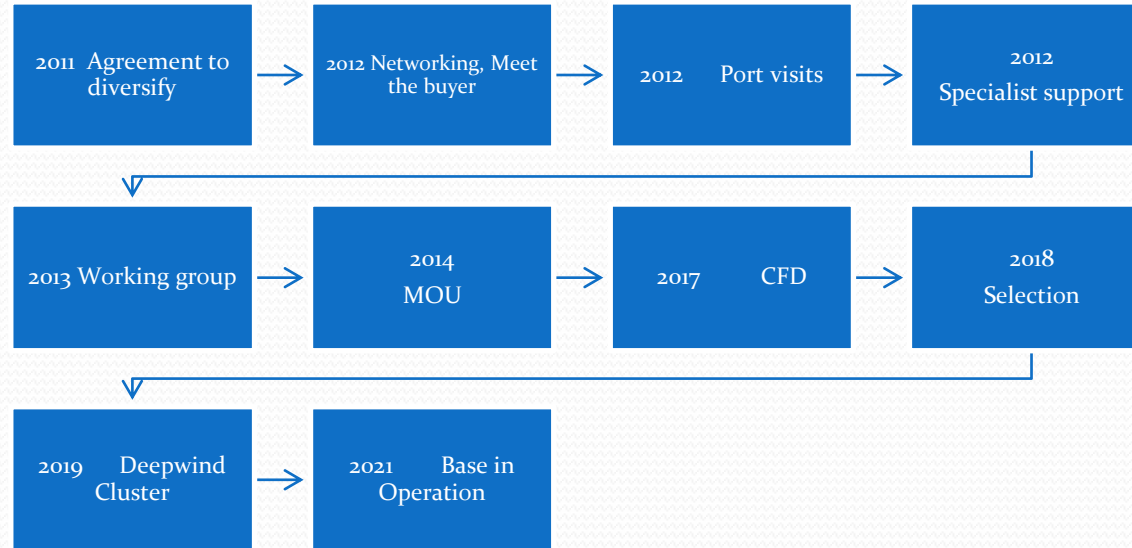


BIG DAY: At the harbour, from left, are Dan Finch, of Moray Offshore Renewables Ltd, Belinda Miller, of Aberdeenshire Council, Eilidh Whiteford MP, harbour convener Peter Bruce and Duncan Abernethy, from North East Scotland College

2017 – 2019



Fraserburgh's journey to O&M

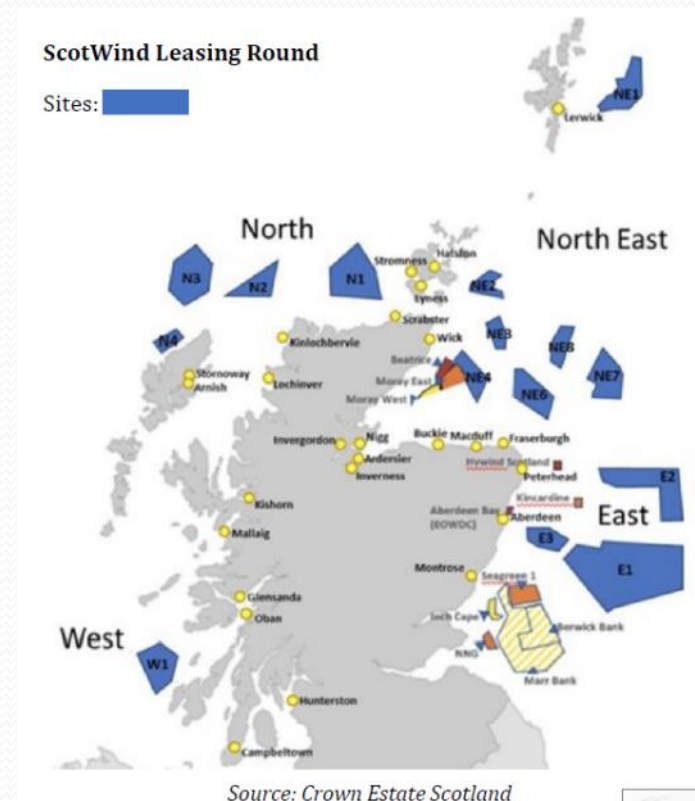


What has O&M brought to Fraserburgh?

- **Resilience**
- **Diversity**
- **New green jobs**
- **Relevance regionally and nationally**

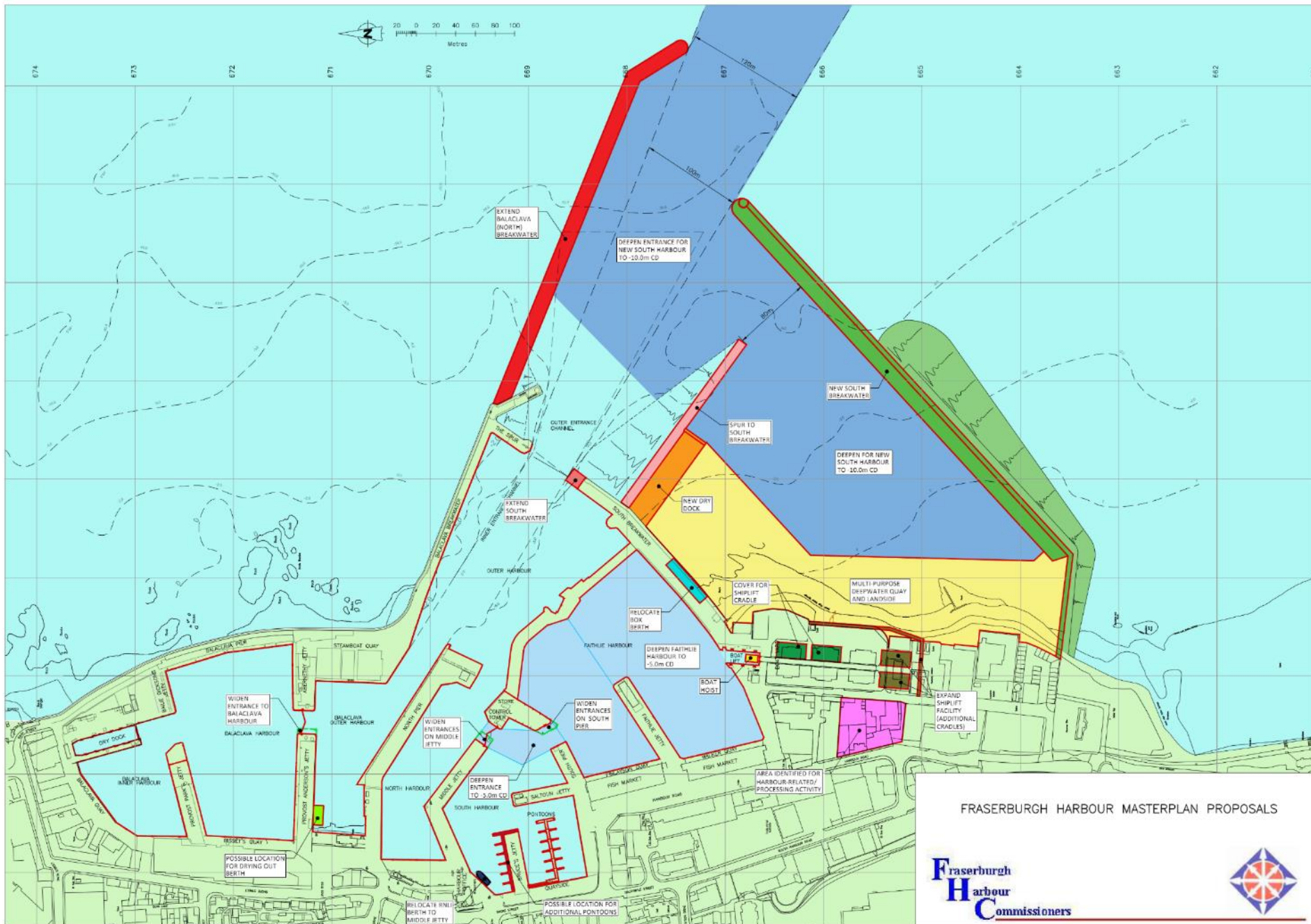
What Role Can Fraserburgh Play?

- Location
- Accessibility
- Knowledgeable and experienced team
- Best in class independent supply chain
- CTV and SOV berthing
- Excellent partnerships with education and local government
- Willing to collaborate



But we need space to grow

- **Capitalise on our supreme location**
- **Deliver economic growth for north Aberdeenshire and the local economy**
- **Advance towards sustainability**
- **Increase resilience for the harbour, our supply chain and our community**



FRASERBURGH HARBOUR MASTERPLAN PROPOSALS



Speak to us today



- 
- pamela@fraserburgh-harbour.co.uk
 - 01346 515858
 - 07570313476
 - Linked In – Pamela Neri
 - Linked In – Fraserburgh Harbour Commissioners
 - www.fraserburgh-harbour.co.uk

Moray Offshore Windfarm (East) Limited

Rory Duncan – Contract Manager



- Market Analysis for Bidder List.
- Supplier Pre-Qualification Questionnaires (PQQs):
 - Short Form or Long Form dependent on risk profile.
- Supplier Management Database updated periodically with PQQ responses:- Approved Vendor List
 - Organisation details, Corporate Social Responsibility, Disputes.
 - Financials / Bank Details.
 - Insurances.
 - QHSE
 - Policies
 - Management Systems
 - ISOs
 - Business Continuity Plans
 - Statistics
 - Audit details
 - Internal / External NCRs etc.
 - Personnel Competency Training.

Moray East O&M Contract and Procurement contacts (Support from wider Ocean Winds teams as required & for Corporate Agreements)

- Rory Duncan (Contract Manager) Rory.Duncan@morayeast.com
- Nicola Watson (Procurement Officer) Nicola.Watson@morayeast.com

- Request for Proposal (RFP) and Invitation to Tender (ITT):
 - Scope of Work / Technical Specifications.
 - Contract, including Procedures.
 - Remuneration Schedule.
 - Programme / Key Dates.
 - Evaluation criteria.
- Clarifications, Negotiations and Evaluations.
- Internal Approvals / Recommendations to Award.
- Award and Contract signing.
- Feedback with other bidders arranged as required.
- Kick off Meetings arranged with new Contractor.

Moray East O&M Contract and Procurement contacts (Support from wider Ocean Winds teams as required & for Corporate Agreements)

- Rory Duncan (Contract Manager) Rory.Duncan@morayeast.com
- Nicola Watson (Procurement Officer) Nicola.Watson@morayeast.com

- WTG Services & Maintenance via SOV Esvagt Alba.
- Below is a list of ongoing scopes, which will be tendered for again in the future.
 - Balance of Plant (Above and Below Water Inspection and Maintenance):
 - Offshore Export Cables (OFTO).
 - Inter Array Cables.
 - WTG Substructures.
 - Shipbroker / Vessels:
 - CTVs.
 - Survey Vessels.
 - Other as required.
 - Marine Warranty Surveyors:
 - Documentation Reviews.
 - Vessel Audits and Equipment Surveys.
 - Site Surveillance during operations.
 - Marine Coordination:
 - Hardware and Software.
 - Covers Windfarm and Sail Route.
 - PtW System, Technical Support etc.

- Below is a list of ongoing scopes, which will be tendered for again in the future.
 - Marine Communication Systems:
 - Licensing, Antenna Site Rentals.
 - Technical Support.
 - Provision of Vessel Radios etc.
 - Weather Forecasting:
 - Harbour.
 - Sail Route.
 - Windfarm.
 - Multiple Forecasts per day, Wind / Wave / Swell / Current etc.
 - Cable / Spares Storage:
 - IAC Spares.
 - OEC Spares (OFTO) etc.
 - Provision of PPE / Tools / Consumables etc.
- Future Framework Agreements / Contracts:
 - Cable Repair.
 - Rope Access.
 - Ad-hoc support etc.



WIND TECHNICIAN TRAINING AT NESCOL



ABOUT NESCOL

- 1 of 20 regional colleges in Scotland (26 including UHI colleges)
 - Modern campuses in Gallowgate, Altens, Fraserburgh and Peterhead
 - 600 staff across all industry areas
 - Home to 6,000 full time students and 12,000 part time students
 - Over 1,000 Modern apprentices
 - 2,500 courses delivered annually
-
- *“Providing individuals, businesses and communities in the North East of Scotland with 21st century skills.”*

WHERE IT ALL BEGAN

- Moray East granted consent in 2014
- Norwood Hall – Tuesday 6th May 2014 – Meet the Buyer - EDPR and other 1st tier suppliers
- 2017 – EDPR won 950MW CfD
- Fraserburgh Harbour / Aberdeenshire Council / NESCol Collaborative approach to securing O&M activity in Fraserburgh
- Supply chain events – March 2018
- EDPR sponsors MA Awards ceremonies

NESCOL'S OPPORTUNITY

- Wind Technician training
- Existing workforce upskilling
- Support for surrounding economies
- Sponsorship opportunities
- Curriculum development across NESCol campuses
- Ensuring facilities meet current industry standards
- Supporting net zero targets through renewables training

Malcolm Macleod
(Curriculum Manager)

WIND TECHNICIAN TRAINING

Supporting Vestas and their 'Wind Turbine' technician apprentices, NESCOL and Vestas devised a specific course containing primarily of 2 awards:-

- Performing Engineering Operations (PEO): Electrical and Mechanical combination – year 1
- Higher National Diploma (HND) in Electrical Engineering – year 1 and 2



WIND TECHNICIAN TRAINING

Performing Engineering Operations (PEO) (SCQF 5)

A Scottish Vocational Qualification (SVQs): allows candidates to demonstrate competence in job-related skills in their particular area of work and expertise:

- Complying with Statutory Regulations and Organisational Safety Requirements
- Using and Interpreting Engineering Data and Documentation
- Working Efficiently and Effectively in Engineering



WIND TECHNICIAN TRAINING

Performing Engineering Operations (PEO)

- Wiring and Testing Electrical Equipment and Circuits
- Maintaining Electrical Equipment/Systems
- Wiring & Testing Programmable Controller Based Systems
- Maintaining Mechanical Devices and Equipment
- Assembling and Testing Fluid Power Systems



WIND TECHNICIAN TRAINING

Higher National Diploma (HND) in Electrical Engineering (Equivalent to year 2 University)

The award allows candidates to work as electrical technicians or progress to a Degree in Electrical Engineering.

The course allows the apprentices to develop:

- Communication and knowledge skills relevant to the needs of electrical engineers
- Understanding in core electrical principles; electrical power systems, electrical machine principles and electrical safety
- knowledge and skills in the use of electrical and electronic instruments



WIND TECHNICIAN TRAINING

The programme also delivers experience in:-

- Machining of components
- Engineering Drawing through Computer Aided Design
- Sport & Fitness
- IT in Business
- Additional Maths support where required



SUPPORTING MORAY EAST

- Wind technician training at NESCoI now in year 3
- Initially offshore only – currently onshore and offshore
- Continually seeking to enhance facilities and training @ NESCoI
- Workforce development opportunities

OTHER NESCOL RENEWABLES TRAINING

- ECITB Wind Turbine Technician (SCQF 6)
- ECITB Energy Transfer Technician (SCQF 7)
- OPITO All-Energy apprenticeships
- Shell Engineering Scheme
- Shell Girls in Energy



SCOTTISH MARITIME ACADEMY

- Maritime Centre of Excellence based in Peterhead
- Range of specialist training programmes
 - SFW Maritime
 - Trainee deckhand through to HNC Nautical Science
 - Biggest provider of fishing training in Scotland
 - Merchant Navy Cadets
 - Short courses
- Industry standard facilities
 - Full bridge simulator / ECDIS Suite / GMDSS
 - Hybrid training rooms



scottish maritime academy

A centre of excellence of NORTH EAST SCOTLAND COLLEGE 7

OPPORTUNITIES TO ENGAGE WITH NESCOL

- Access to a new talent pool
- Foundation Apprenticeships
- Modern Apprenticeships
- Upskilling workforce
- Funding opportunities including Flexible Workforce Development Fund
- Innovation funding
- Work for NESCo!



WIND TECHNICIAN TRAINING AT NESCOL

QUESTIONS?