



Pentland Floating Offshore Wind Farm

Crown Estate Scotland Supply Chain

Information Request – Ambition

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1. Introduction

Highland Wind Limited (HWL) welcomes the opportunity given by Crown Estate Scotland (CES) to present our supply chain engagement approach and ambition to support coordination and information gathering across the Scottish offshore wind sector. We will outline key strengths identified within the local supply chain as well as areas in need of further strategic development to support the realisation large-scale floating offshore wind developments with maximum local content expenditure.

The Pentland Floating Offshore Wind Farm (PFOWF) Project is being developed by HWL which is a Special Purpose Vehicle (SPV) established to deliver the Project. HWL is majority owned by a fund managed by Copenhagen Infrastructure Partners (CIP) (90%) with HexiconAB as a minority shareholder (10%). Project development activities are being led by CIP's development partner, Copenhagen Offshore Partners (COP).

CIP is a fund management company focused on energy infrastructure including offshore wind, onshore wind, solar PV, biomass and energy-from-waste, transmission and distribution, and other energy assets such as reserve capacity and storage. CIP has offices in Copenhagen, Hamburg, New York, Tokyo, Utrecht, Melbourne and London.

HexiconAB is a leading floating offshore wind technology and project developer. It was founded in 2009 and is headquartered in Stockholm, Sweden.

COP is a leading and experienced provider of project development, construction management, and operational management services to offshore wind projects. The company is headquartered in Denmark and has offices in Taiwan, USA, Australia, Japan, Korea, UK, Vietnam, Brazil, Italy, France, and Greece. The project development team is based in COP's Global Floating Wind Competence Centre, in Edinburgh, Scotland.

HWL is proposing to demonstrate a floating offshore wind farm with an installed capacity of up to 100 megawatts (MW) approximately 7.5 km off the coast of Dounreay, Caithness. This will include an offshore array of seven floating Wind Turbine Generators (WTGs) (one WTG installed for the phase 1 demo, and six units for the phase 2 array) connected to one another by subsea inter-array cables, supported by floating structures. Offshore export cables will carry the power generated by the PFOWF Project to a landfall location at the Dounreay coast. The PFOWF Project is proceeding with a new consent application to the previously held Dounreay Tri Project Site and targeting eligibility in Allocation Round (AR) 5. The project will be preceded by the early deployment of a single WTG to demonstrate the selected floating foundation technology.



Figure 1 - Project Location Map

2. Supply Chain Ambition

Table 1 outlines the level and the location of supply chain expenditure that is ambitioned for the PFOWF project, disaggregated by lifecycle stage and geographic area.

Table 1: Supply Chain Ambition (expenditure in £m)

Phase	Scotland	rUK	EU	Elsewhere
Development	23	3	0	0
Manufacturing & Fabrication	43	14	53	0
Installation	9	1	31	0
Operations	111	0	20	0
Total	185	18	104	0

The supply chain ambition presented in Table 1 follows the current Crown Estate Scotland (CES) definitions for expenditure and is only focussed on any element of the expenditure incurred by entities registered, resident or having principal offices in a given area and where the location of the service received or product produced is in the same specified area. For example, any expenditure or contracts awarded by a European EPCI contractor to a Scottish manufacturer will not be considered as 'Scotland' expenditure.

For reference, a full picture of the anticipated project expenditure profile by lifecycle stage and geographic area is outlined in Table 2.

Table 2: Full project expenditure (£m)

Phase	Scotland	rUK	EU	Elsewhere
Development	25	8	27	0
Manufacturing & Fabrication	50	73	246	72
Installation	37	10	35	3
Operations	169	47	65	20
Total	281	138	372	94

Overall, PFOWF is projecting the project will deliver lifetime expenditure of £419M in the UK. This is in line with our ambitious target for 40% to 60% lifetime UK content, which is unprecedented figures for floating wind in the UK to date. In addition to this the project expects the supply chain to support up to 1,300 FTE during construction and 85 FTE during each year of operations.