

Foundation Ex 2025

Floating Offshore Wind – Opportunity and Challenge

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Scotwind Floating Projects – SPR and Shell

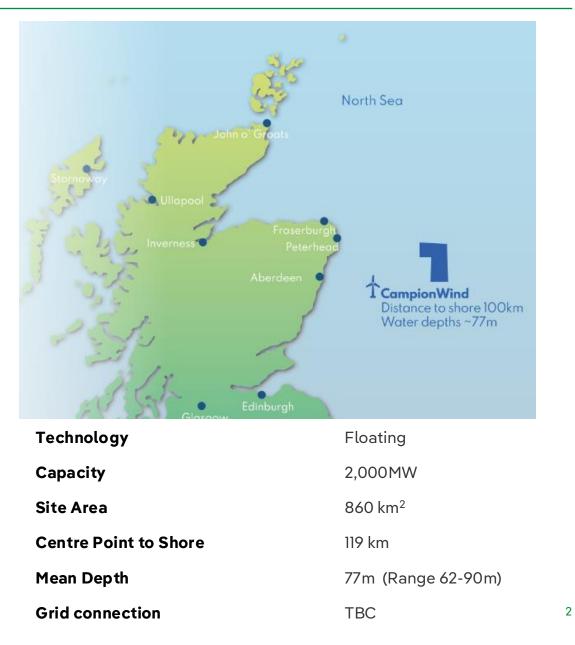




Technology			
Capacity			
Site Area			
Centre Point to Shore			
Mean Depth			

Grid connection

Floating
3,000MW
684 km²
95 km
104m (range 87.8m – 133.7m)
Peterhead



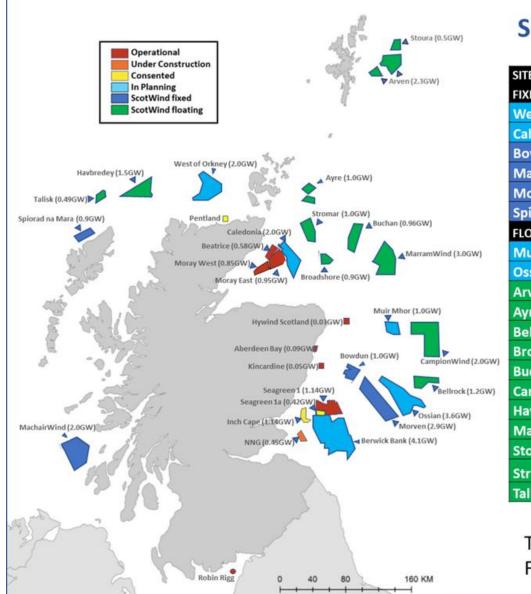
Scotwind – Opportunity..?



offshore

Scotland

wind



ScotWind Round

SITE NAME	DEVELOPERS	CAPACITY (MW)	
FIXED			
West of Orkney	RIDG, Corio Generation and TotalEnergies	2,000	
Caledonia	Ocean Winds	2,000	
Bowdun	Thistle Wind Partners	1,008	
MachairWind	ScottishPower Renewables	2,000	
Morven	BP and EnBW	2,907	
Spiorad na Mara	Northland Power and ESB	840	
FLOATING			
Muir Mhor	Vattenfall and Fred Olsen Seawind	1,005	
Ossian	SSE Renewables, CIP and Marubeni	3,610	
Arven	Mainstream RP and Ocean Winds	2,300	
Ayre	Thistle Wind Partners	1,008	
Bellrock	BlueFloat Energy¦ Nadara Partnership	1,200	
Broadshore	BlueFloat Energy¦ Nadara Partnership	900	
Buchan	Buchan Offshore Wind	960	
CampionWind	ScottishPower Renewables and Shell	2,000	
Havbredey	Northland Power and ESB	1,500	
MarramWind	ScottishPower Renewables and Shell	3,000	
Stoura	ESB Asset Management	500	
Stromar	Orsted and BlueFloat Energy¦ Nadara Partnership	1,000	
Talisk	Magnora Offshore Wind	495	

Total = 30,293MW Floating Wind = 19,478MW (64%)

Floating wind - what needs to happen?



- Confidence in outlook for UK plan to deploy offshore on a massive scale
- Electricity demand is expected to grow significantly from 2030-2050. Beyond Clean Power 2030, where/what should the projects be?
- o If we continue with industrial scale offshore wind as a cornerstone of our future generation, floating will have to be a major part of the mix.
- $\,\circ\,\,$ Route to market in AR7 and beyond must protect smaller floating projects.
- o Locational signals must incentivise, not deter investment in Scotland.
- $\,\circ\,\,$ Simplification and acceleration of consenting of strategic infrastructure.
- We need a clear, strategic and deliverable plan for reinforcing the transmission network between north and south
- Major unprecedented programme of investment underway, with most still to come in next 10 years.
- However, timelines for connection remain largely unclear with high risk on developers for non-delivery.
- Supply chain investment is needed in the coming years prior to large scale projects being deployed
- Delivery of even a portion of the Scotwind floating sites will require major investment, expansion and upskilling competitiveness is key.
- Supply chain is ready to respond but market signals may come too late government have a key role.
- But let's recognize the importance of investment that is happening now Ardersier, Port of Nigg (Sumitomo), Hunterston (XLCC), Port of Cromarty Firth.
- Technologists and Engineers have a big role to play in this journey to industrialise
- o Understand your Client's challenges and the criticality of reducing pre-FID spend whilst continuing to add value with targeted expenditure.
- Parallels from fixed bottom offshore wind challenging the standards, optimising design has unlocked vase swathes of deeper fixed sites at acceptable cost level.
- $\,\circ\,$ Are sites really floating or can we leverage novel fixed/hybrid technologies?
- Priority areas in development/pre-FID phase optimisation of offshore surveys, accurate cost modelling, maximizing yield/optimising layouts, robust technology shortlisting, identification and leverage of key CAPEX reduction opportunities.
- Patience and perseverance will have rewards
- Developers need to be comfortable taking calculated and measured business risk confidence in the road ahead is key.
- \circ We can and ought to go faster, but in the current climate we need to stay the course.



Thank you

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