





Keith Johnston / Steve Penny

Partnering for Success

A strategic team with unrivalled expertise in North Sea offshore wind



- Flotation Energy created after founders' experience developing Kincardine
- Actively developing its INTOG projects from Day 1
- Clear understanding of the drivers for O&G decarbonisation



- Vårgrønn owned by Plenitude (Eni) and energy investor HitecVision
- Brings specialist offshore wind expertise
- Has a share in the world's largest wind farm under construction, Dogger Bank

An exceptionally strong partnership, leveraging collective strengths

Focused on innovative floating wind projects with unique opportunities to scale



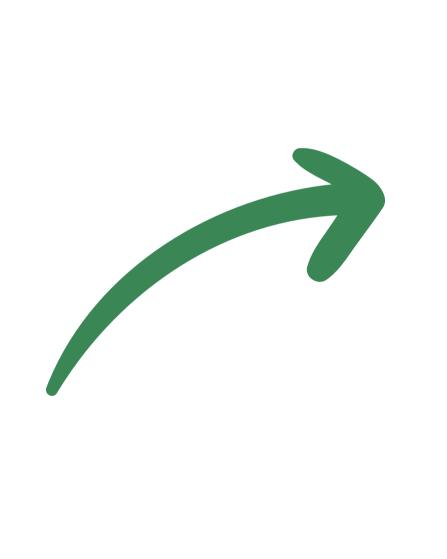


Pioneering a new era of floating wind

The next generation of projects reaches commercial scale



The world's largest operational floating wind farm is 88MW





Up to **560 MW**



Up to 1.4 GW



>35 turbines







Demand for oil & gas electrification

Net Zero Targets reinforce the need for floating wind



Crown Estate Scotland's leasing round for 'Innovation and Targeted Oil and Gas' projects in Scotland – Green Volt and Cenos awarded exclusivity



Significant contributor to the **North Sea Transition Deal's** goal of halving offshore emissions **by 2030**



Participating oil and gas platforms reduce emissions from electricity up to 85%



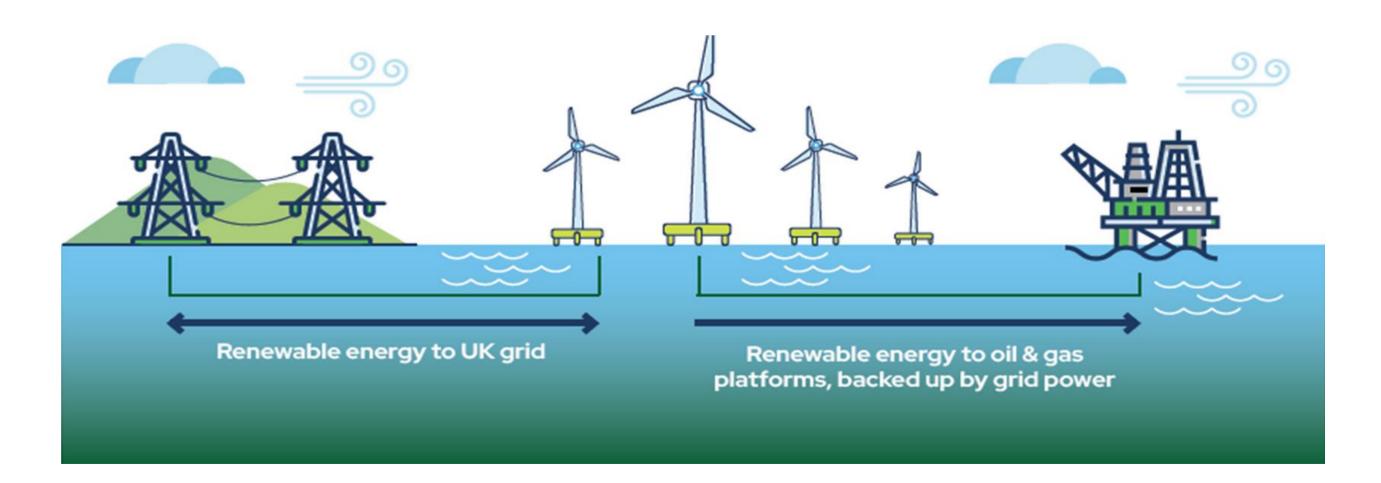


Platform electrification

How does it work?

Renewable power, with grid security

- Displace existing, open cycle gas turbine power generation
- Provide security of grid supply to O&G operations
- Export surplus power to shore, enabling further decarbonisation of UK grid
- Floating wind, further offshore with excellent wind resource



- √ 100% electrification
- ✓ Rapid deployment
- Maximum decarbonisation
- ✓ Grid availability / reliability to meet O&G requirements
- ✓ Optimal CapEx retained by the wind farm
- ✓ UK offshore wind growth targets

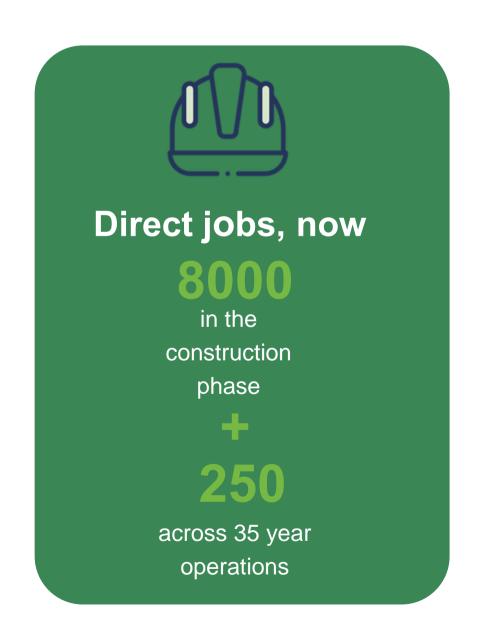


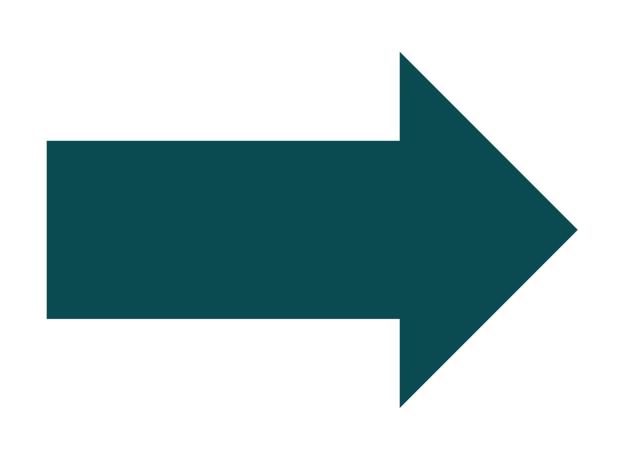


The first commercial-scale projects

Establishing a world-leading supply chain structure

- Significant parts of the supply chain are not yet established
- Location of work and jobs are still for the taking
- UK must capitalise on first mover advantage





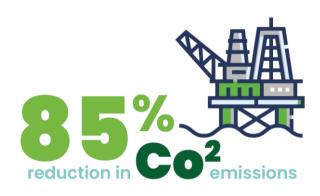






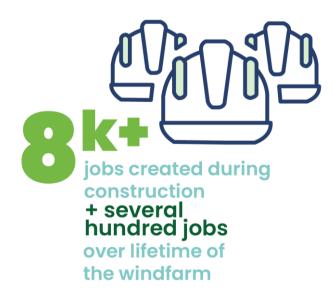
Location

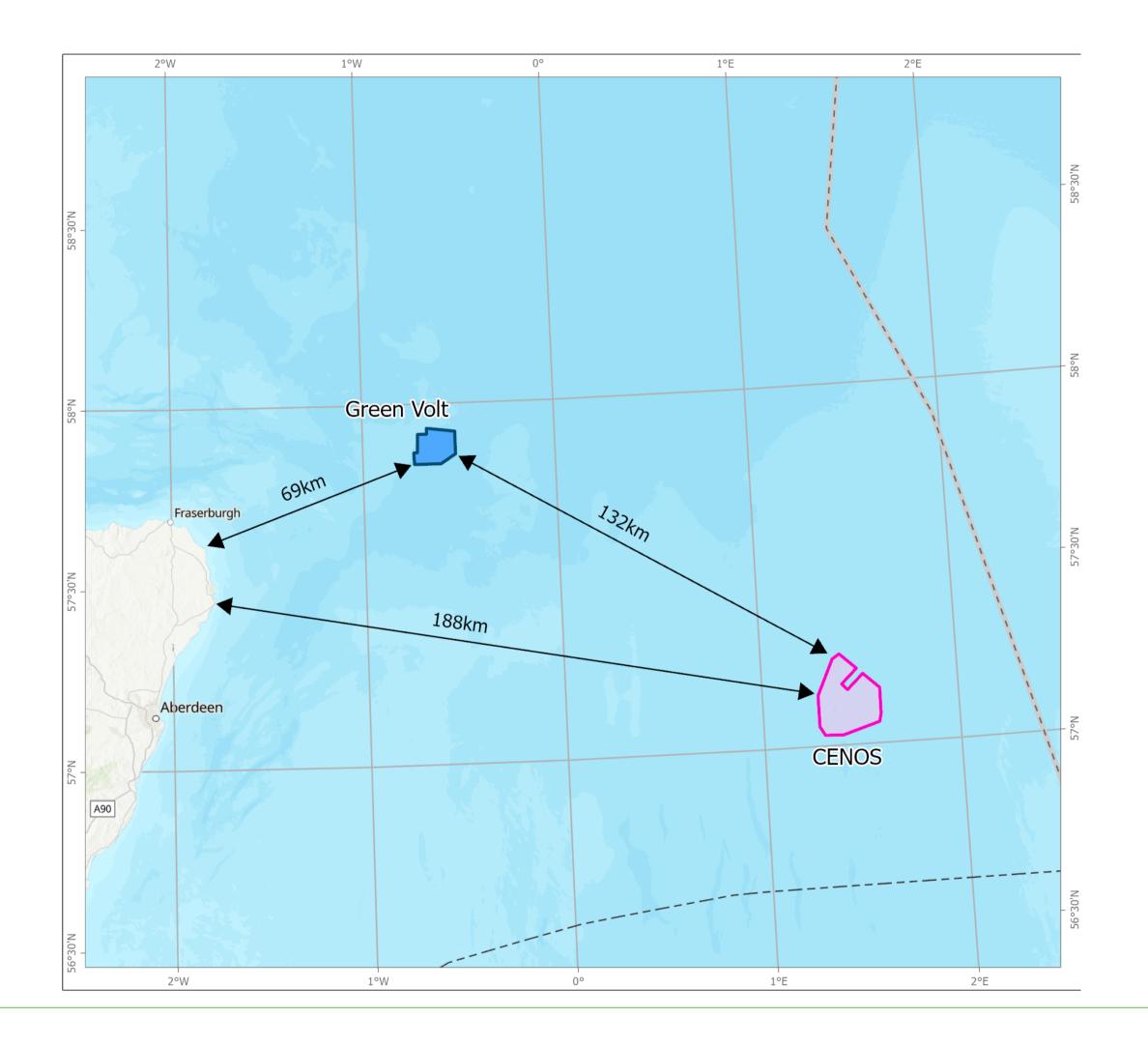
Two offshore windfarms in the heart of the UKCS















Green Volt

First mover floating wind farm

Parameter	Value for assessment
Windfarm area	Approx 110 km ²
Water depth	100-115 m
Windfarm Rating	330-560MW
Distance to shore	70 km
No. of WTG	Up to 35 turbines
WTG capacity	Up to 15 MW each
Substructure	Semi-submersible or tension leg platform
Anchors	3 – 6 per turbine, drag embedment or suction pile

Parameter	Value for assessment
Substation platform	One x 4-legged jacket Inc transformers
Voltage	220-275 kV HVAC
Export cables	To O&G platforms: To Grid: 1 or 2 parallel cables
Inter-array cables	Up to 42 total







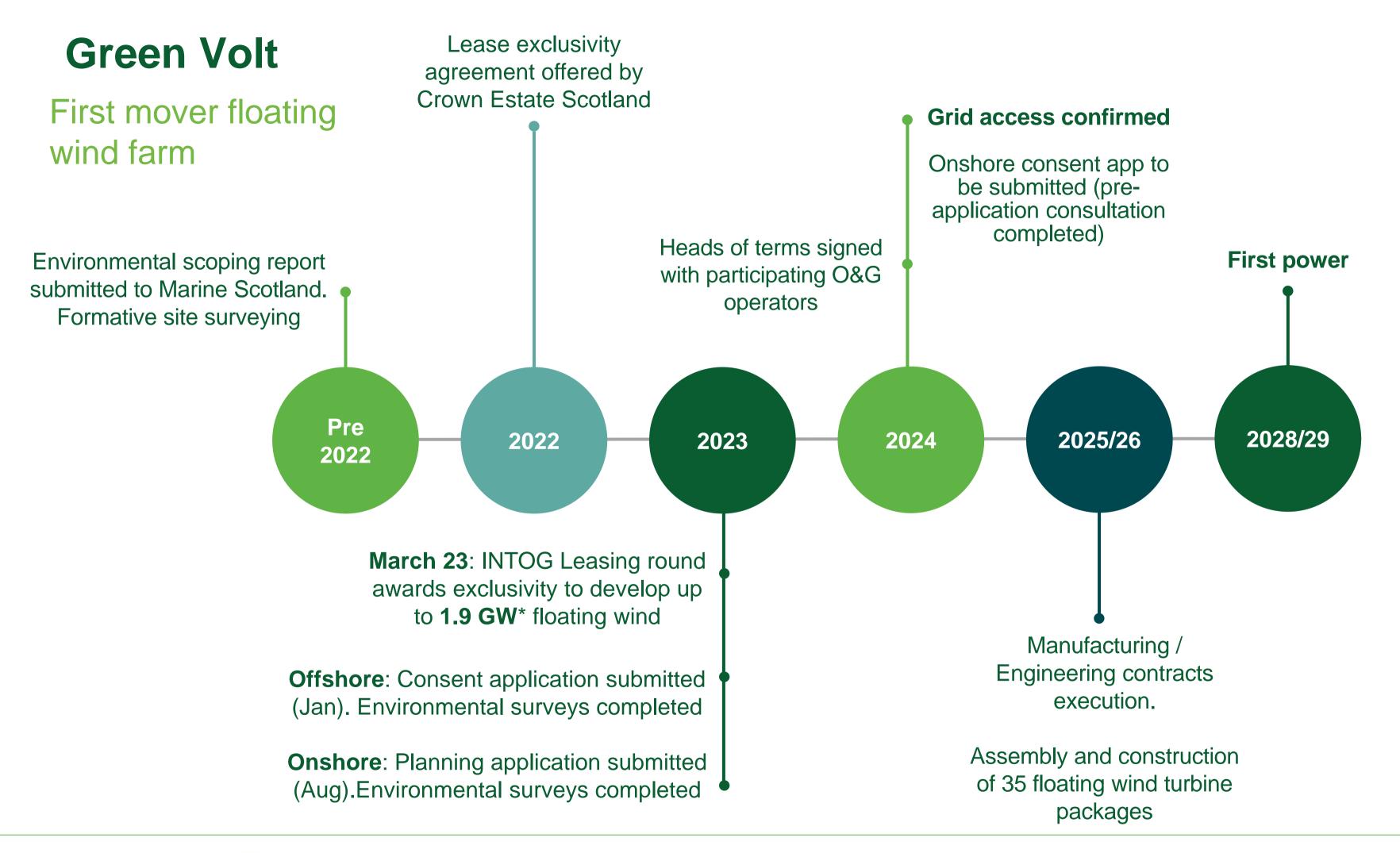




1.5TWhrenewable power annually
to the UK Grid











Cenos

Set to be the world's largest floating wind farm

Parameter	Value for assessment
Windfarm area	Approx 333 km ²
Water depth	100-115 m
Windfarm Rating	1.4GW
Distance to shore	190 km
No. of WTG	Up to 95 turbines
WTG capacity	Up to 15 MW each
Substructure	Semi-submersible or tension leg platform
Anchors	3 – 6 per turbine, drag embedment or suction pile

Parameter	Value for assessment
Substation Platform	One x 4-legged jacket Inc transformers
Voltage	320 kV HVDC
Export cables	To O&G platforms: To Grid: 1 circuit, 2x HVDC cables
Inter-array cables	Up to 100 total



Cenos

Set to be the world's largest floating wind farm

- 95 turbines the height of the Eiffel Tower
- Over an area the size of Edinburgh

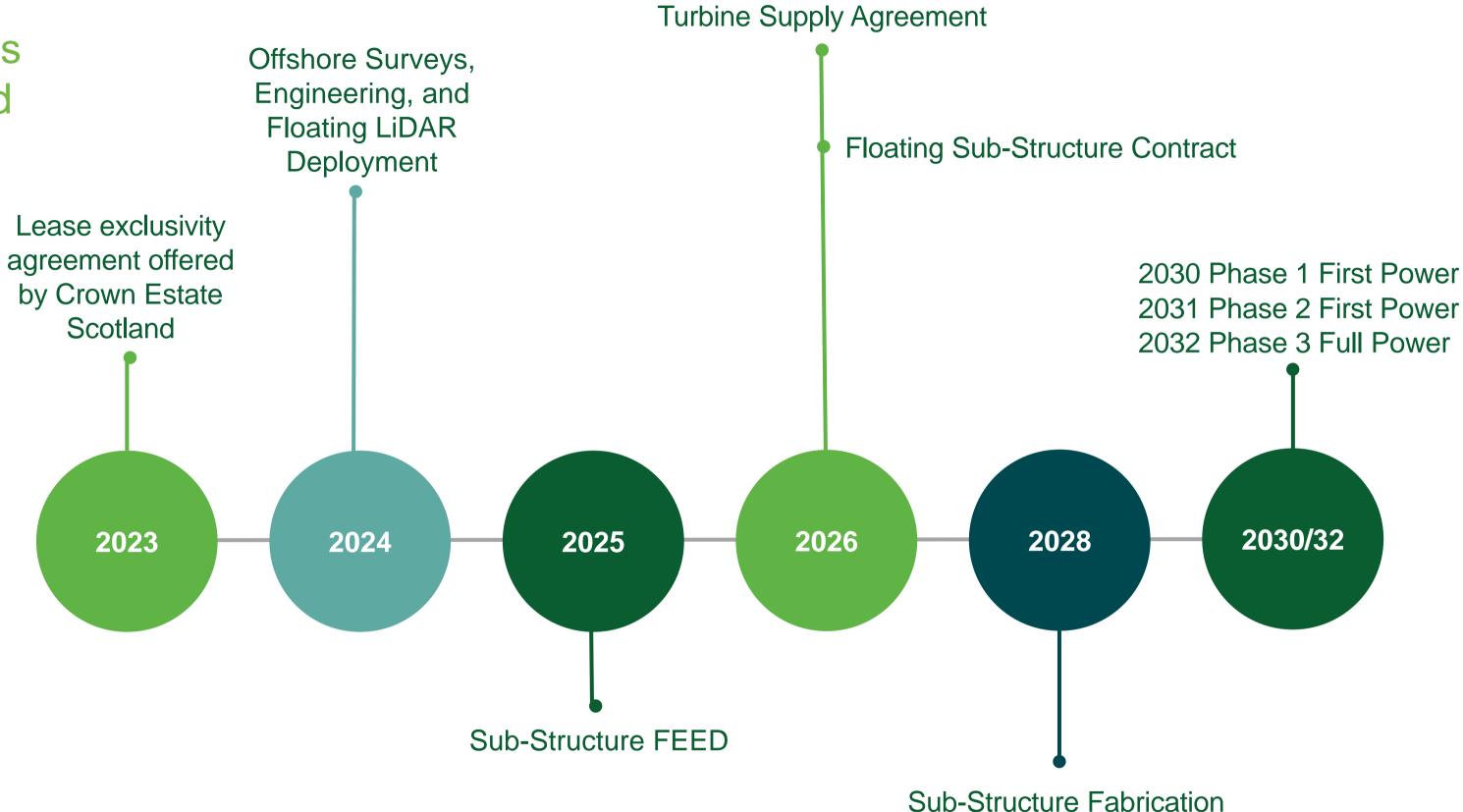






Cenos

Set to be the world's largest floating wind farm







Supply chain delivery model

Our approach

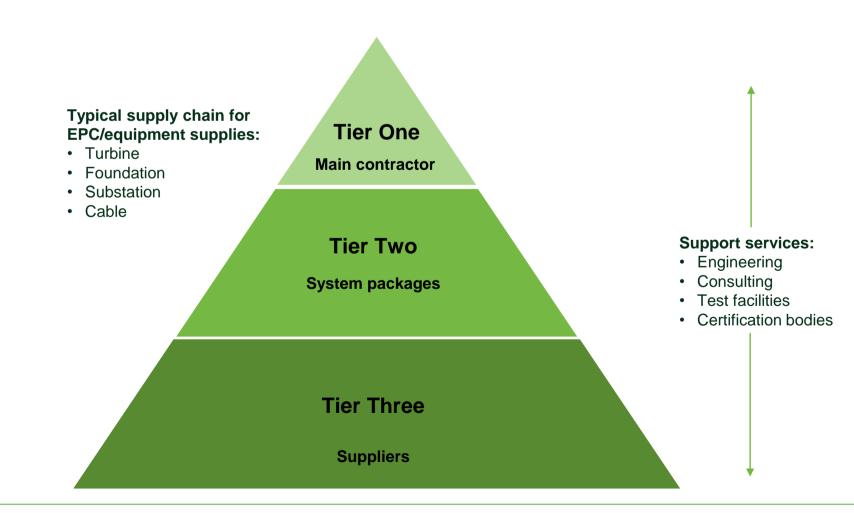
- Lean integrated project team
- Supplier led solutions
- Extensive use of local suppliers
- Use of multi-contracts a strategy of 5-9 larger contracts

Recommendations for suppliers:

- Understand the tiers of the supply chain relevant to you
- Engage with the supplier above you in the supply chain
- Energy Pathfinder / NSTA

Examples of Scottish opportunities:

- Port and Harbour Services
- Fabrication / Turbine Integration
- Operations and Maintenance Support
- Onshore Civils
- Hospitality







Ports and harbours

Increased definition

2022 – 2023 engagement

- 6 locations focus on Aberdeenshire and Cromarty Firth
- NDAs in place and development plans shared
- Verify availability and commitment needs
- Extend engagement to Firth of Forth area (New Freeport status)

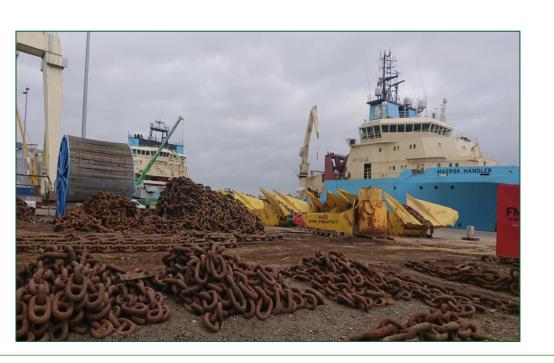
2024 engagement

Green Volt and Cenos joined Strategic Investment Model (SIM) process
 led by SOWEC / CES to support infrastructure investment / development







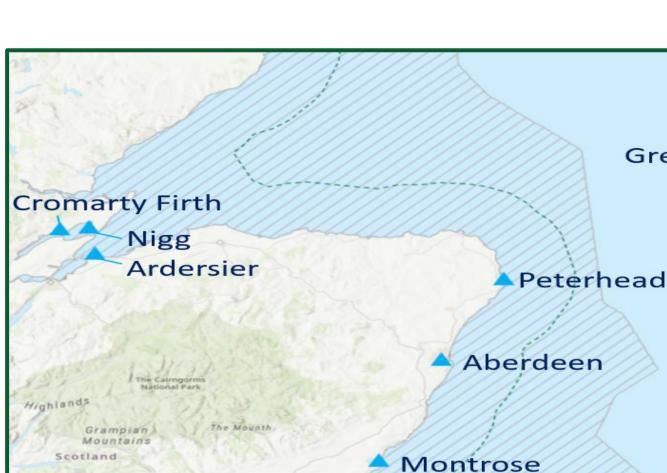








Green Volt

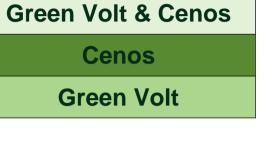


Near term focus

Increased definition

- Continued WTG package engagement
- Substructure pre-FEED completion / FEED
- Electrical system pre-FEED completion / FEED
- Develop O&G heads of terms
- Update focus on ports
- Integration and O&M facilities
- Increased engagement
- Strategic investment model
- Market engagement / developing contract strategies
- Focus on local content maximisation

Package	
WTG	
Substructure Floater	
Inter Array Cables	
Marine Works	
Onshore and Offshore HVDC substations	
Export Cable HVDC	
Onshore Enabling Works	
Offshore Substation HVAC	
Onshore substation HVAC	
Export Cable Offshore HVAC 85km x 2 = 170,000m	
Export Cable Onshore HVAC 35km	
Marshalling & Assy port & harbour	
Onshore land (route and substation)	







THANK YOU.

Questions?



