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ORION Project - Asia Clean Energy Forum 2022

Ambition



Create

Create on Shetland a green hydrogen export business at industrial scale by harnessing offshore wind power and creating new jobs



Transform

Transform Shetland's current dependency on fossil fuels to affordable renewable energy to address fuel poverty and improve community wealth



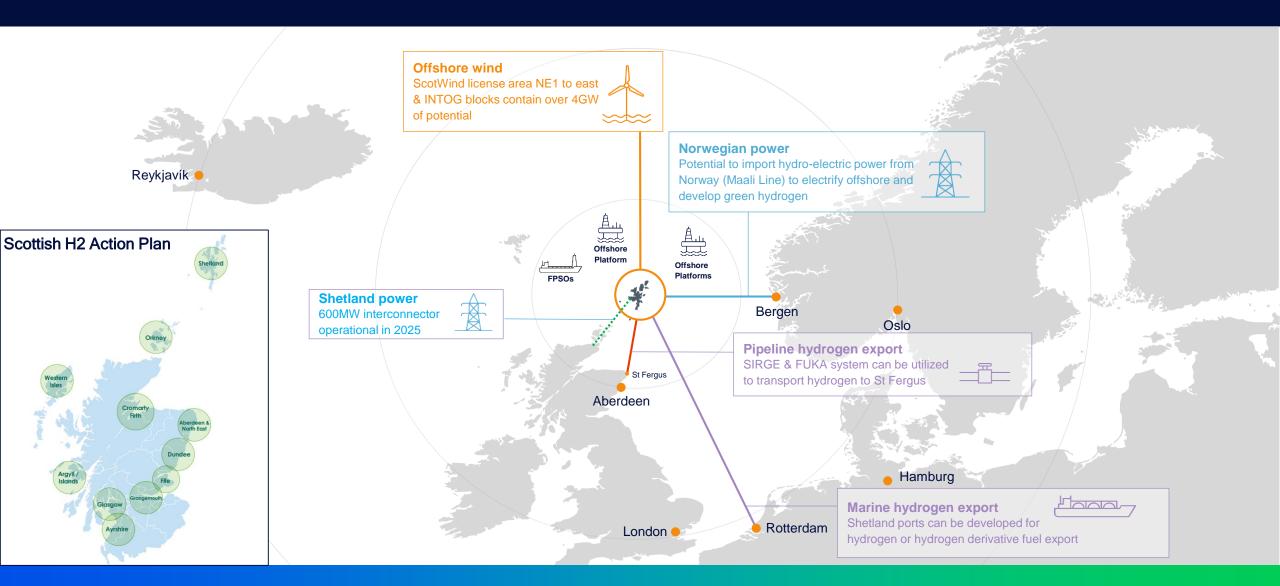
Enable

Enable offshore oil and gas sector transition to net zero utilizing renewable energy to sustain thousands of jobs and security of supply



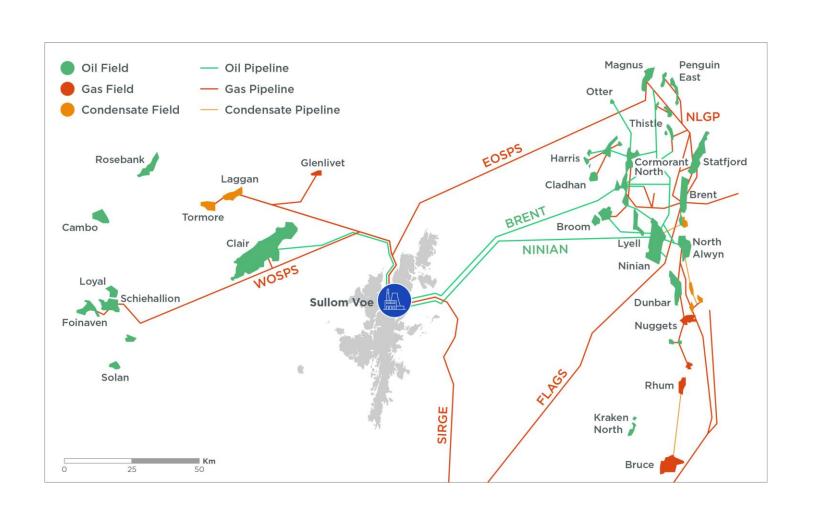
Shetland Regional Energy Hub





Connected Shetland







Onshore Wind







Tidal Power



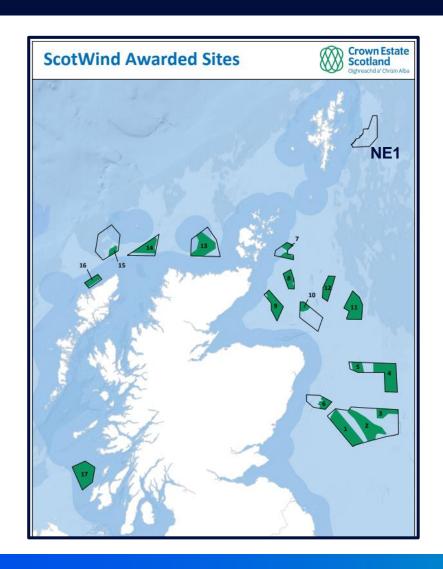


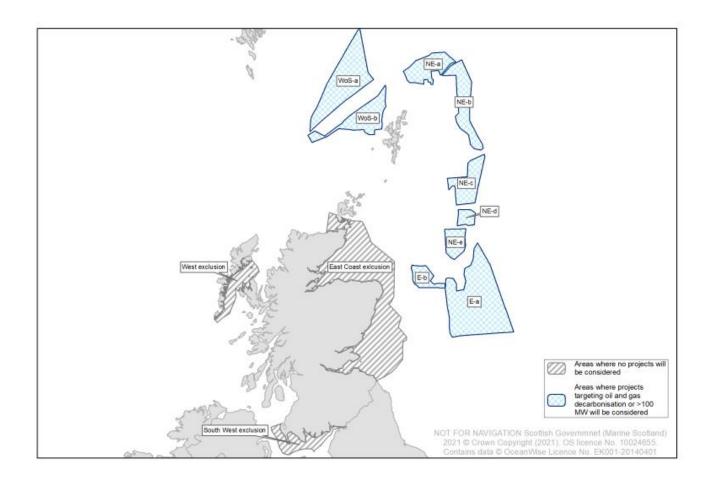


www.novainnovation.com

Offshore Wind







Sullom Voe Hub Potential

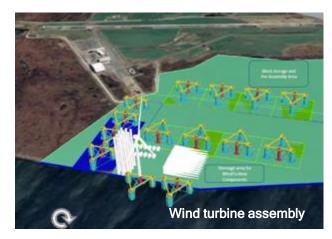




Scatsta Hub Potential





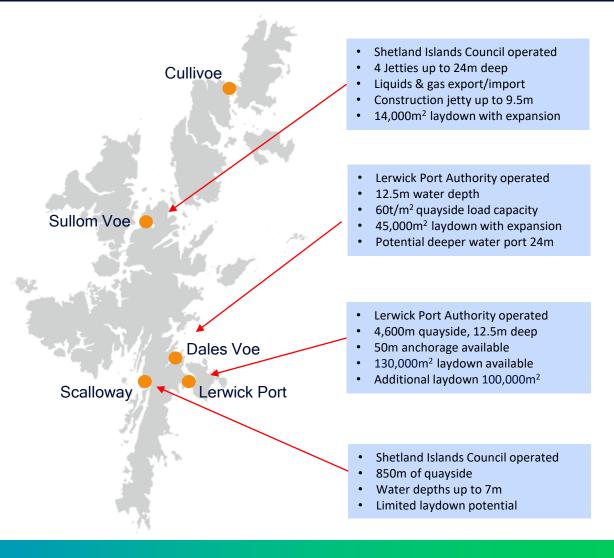




Shetland's Ports







Marine Workgroup



The key themes covered by the workgroup are:

- Vessel Replacement
- Ports & Quayside Infrastructure
- Marine Fuels
- Supply Chain
- Community & Communications





Hydrogen Scale Up

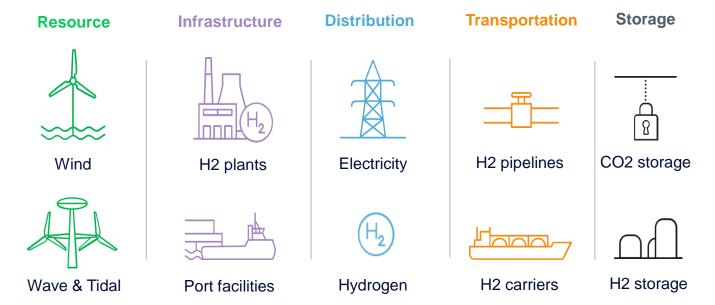




- 2025-2027: Small scale pilot project
- 2027-2030: Utilise large scale onshore wind
- 2030+: Offshore floating wind becomes available along with offshore hydrogen production

Shetland Supply Chain





Shetland Energy Transition Skills Group

- Ensure that skills issues across Shetland, and wider, energy sector are well understood
- Ensure a skilled workforce is in place to address challenges and capitalise on opportunities
- Ensure a co-ordinated and partnership approach to help address Shetland's skills & training requirements
- Inform and influence Shetland's education and skills provision









Partnership approach working closely with industry

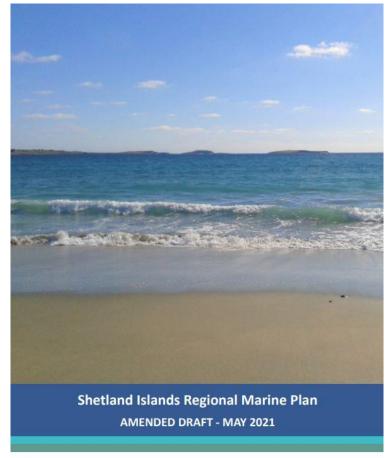
ORION Vision





Marine Environment

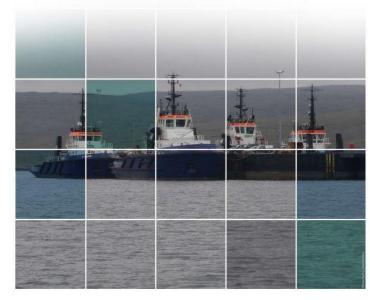








Sullom Voe Harbour Area - Draft Master Plan



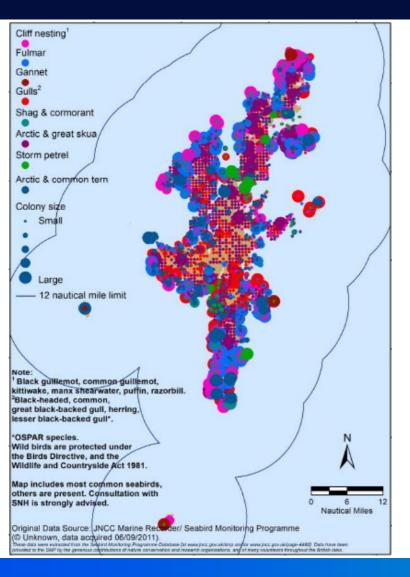


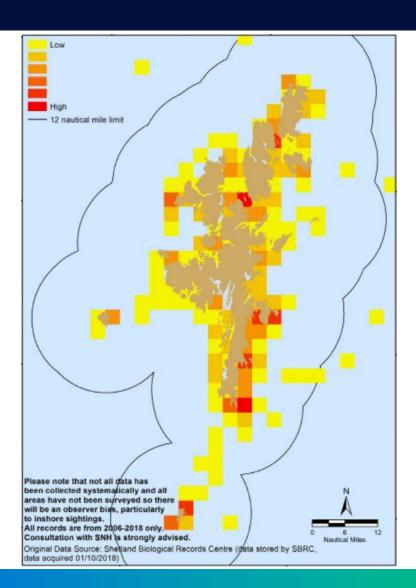


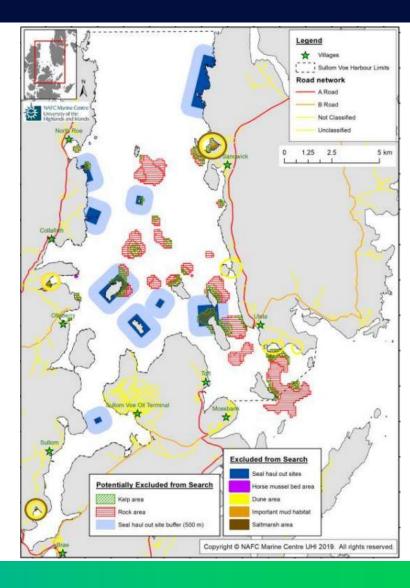


Masterplanning









Shaping Shetland as the UK's first clean energy island



ORION is a strategic framework connecting organisations with a common ambition: to transform the Shetland region into a centre for secure and affordable clean energy.

- Harnessing offshore wind to produce green hydrogen for transport and heating
- Delivering clean and affordable energy for Scotland, the UK and Europe
- Creating new jobs, tackling fuel poverty and reducing carbon emissions
- Decarbonising offshore oil and gas to support the net zero transition

Our vision is to build a world-leading clean energy hub, attracting people of all ages to live, work, study and invest.

Shetland: Islands of Opportunity

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