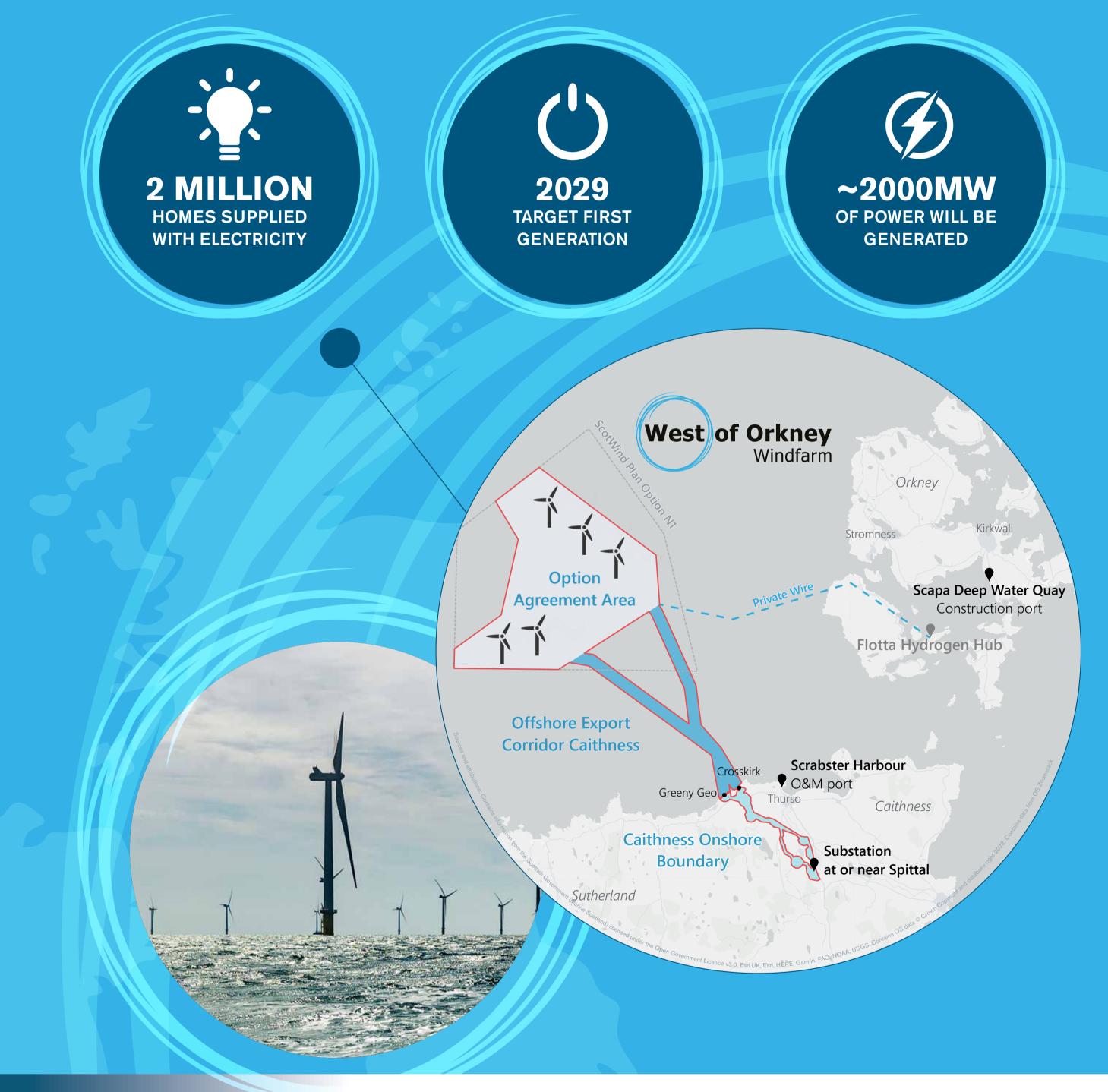




WEST OF ORKNEY WINDFARM

The West of Orkney Windfarm is located around 30km west of Orkney and 25km from the north coast of Scotland. The project is being developed by Corio Generation, TotalEnergies and RIDG, a consortium with deep Scottish roots, a commitment to delivery and a clear vision for the project.











OFFSHORE

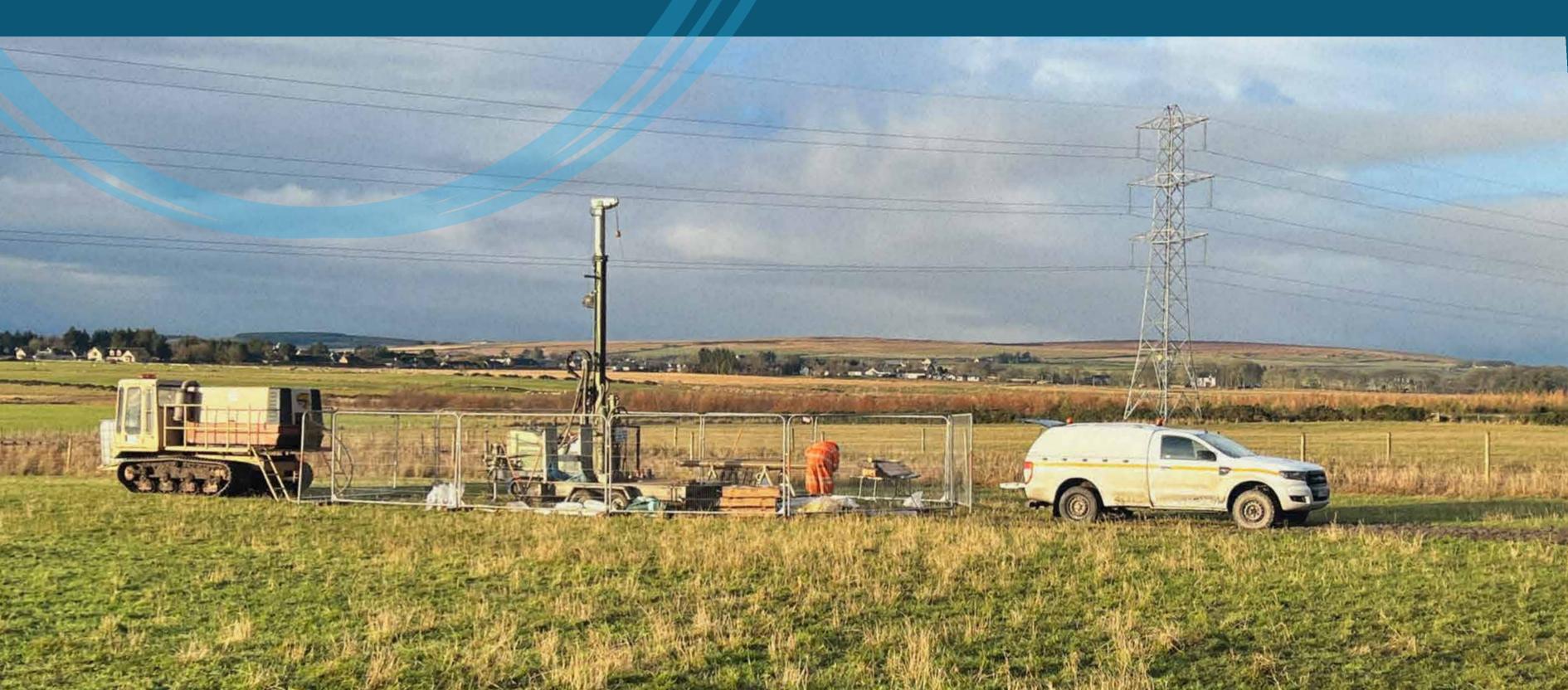
- Up to 125 wind turbine generators with a maximum tip height of 370m
- Fixed turbine foundations
- Up to five offshore substation platforms
- Inter-array cables linking the wind turbines and offshore substation platforms
- Up to five export cables to Caithness
- Up to five export cables to Flotta (future separate application)

ONSHORE

- New substation at or near Spittal
- Up to five underground cable
 circuits from landfall point to
 substation
- Orkney infrastructure subject to future separate application
- New substation near existing
 Flotta Oil Terminal/proposed
 Flotta Hydrogen Hub
- Up to five underground cable circuits to Flotta substation







ONSHORE PROPOSAL

In November 2020, National Grid confirmed that the West of Orkney Windfarm's grid connection would be 'at or near Spittal'. The onshore cables will run from the two potential landfall locations Greeny Geo and/or Crosskirk. The onshore route has been split into three development zones: landfall, onshore cable route, and substation. The figure below indicates which activities will occur within each of the zones.

CABLE DEVELOPMENT ZONE

- Establishment of compounds
- Enabling works
- Horizontal directional drilling/main crossing works
- Cable trenching (including foreseen crossings)
- Ducts/duct bank installation
- Joint bay excavation and installation
- Cable installation

LANDFALL DEVELOPMENT ZONES

- Enabling works
- Horizontal directional drilling works
- Transition joint bay construction
- Pull in and jointing of offshore export cables

- Cable jointing and testing
- Cable trench backfilling
- Reinstatement of joint bay sites
- Removal of compounds and final reinstatement works

SUBSTATION DEVELOPMENT ZONE

- Enabling works
- Onshore substation civil works
- Onshore substation mechanical and electrical works
- Onshore substation cold commissioning
- Onshore substation energised and hot commissioning
- Grid connection enabling works
- Grid connection civil works
- Grid connection mechanical and electrical works
- Grid connection commissioning
- Final reinstatement and landscaping works

 Landfall Crosskirk development zone

Landfall Greeny Geo development zone

Cable development zone

Caithness onshore substation development zone

www.westoforkney.com

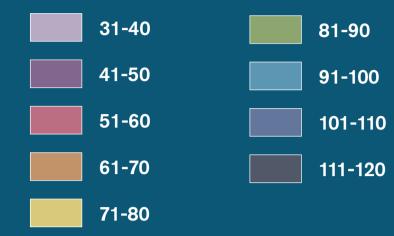
tains OS data © Crown Copyright and d

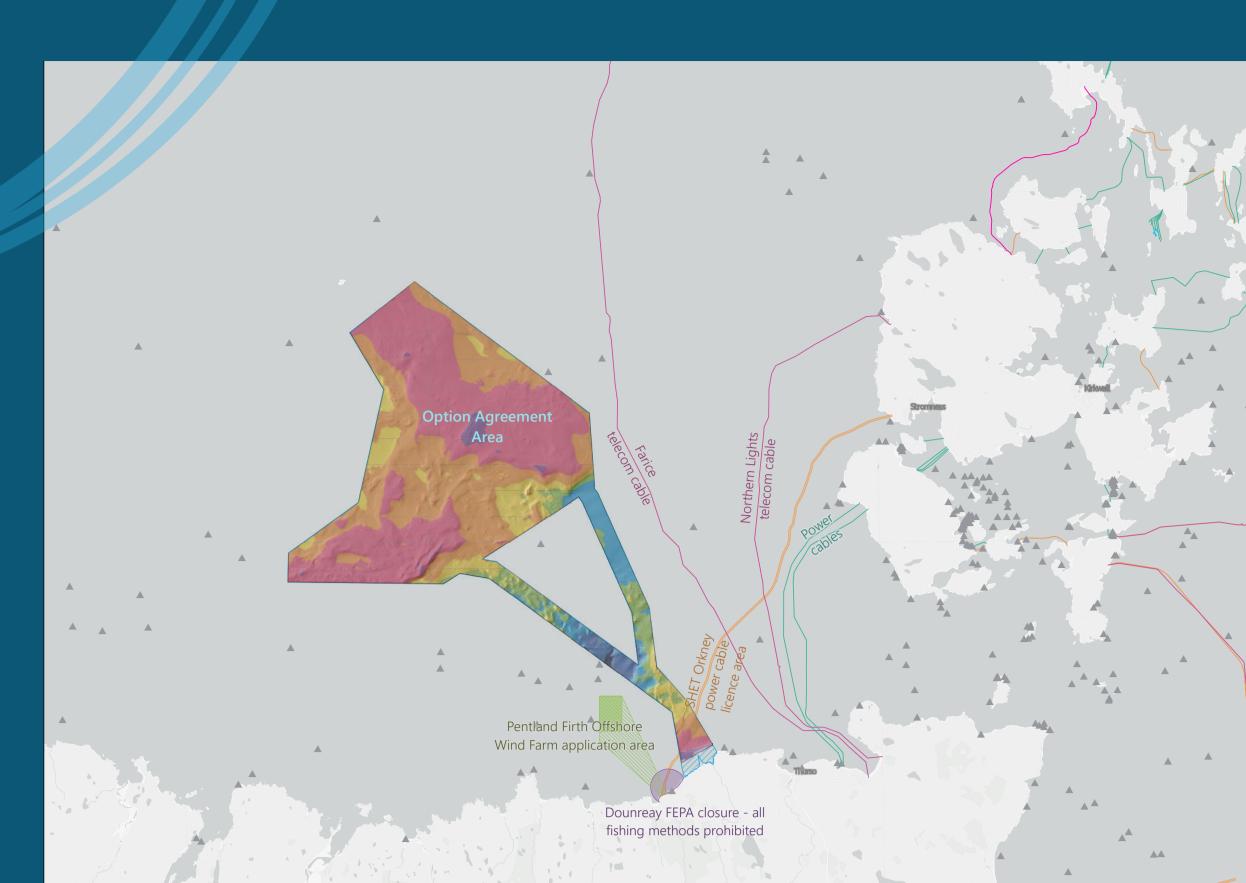






Offshore Project Area Water depth (m)



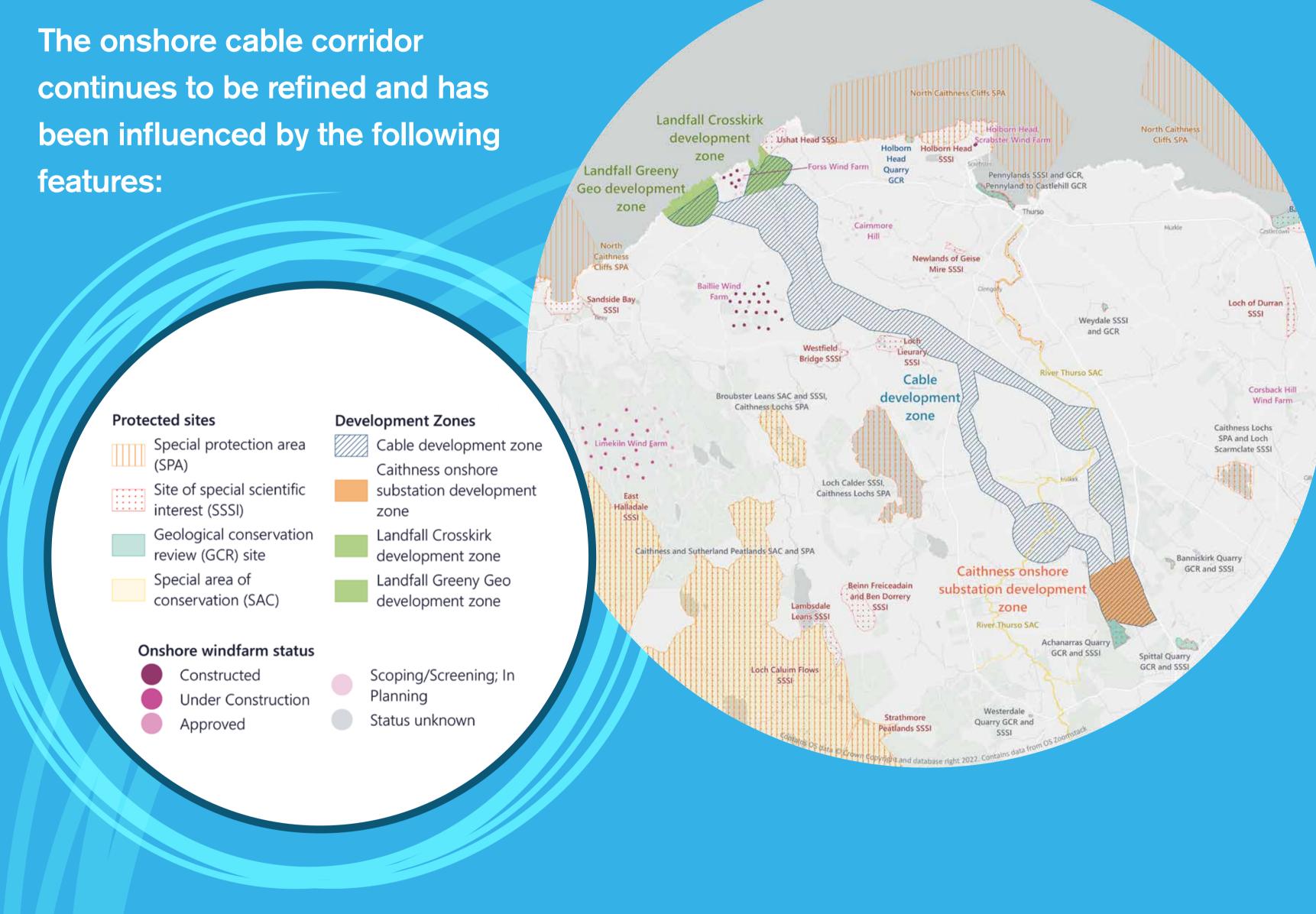


Contains OS data © Crown Copyright and database right 2022. Contains data from OS Zoomstack

CABLE ROUTE REFINEMENT

There are two shallow banks located within the OAA referred to as Stormy Bank and Whiten Head Bank. A combination of water depth, seabed composition and environmental constraints will determine the turbine layout. The Project will have turbines which will be fixed to the seabed.

been influenced by the following



In February 2023, SSEN Transmission commenced consultation about planned investments in the transmission network across the north of Scotland to support the significant growth of renewable energy forecast, particularly onshore and offshore wind. This includes upgrading existing lines, building new overhead lines, subsea cables and a new substation in the Spittal area.

Scan this QR code for more information from SSEN







OFFSHORE MITIGATIONS

The offshore surveys were all completed in 2022. To reduce potential impacts that may arise from the Project, mitigations measures will be put in place. The below table outlines some of the proposed mitigations for the offshore impacts.



ELEMENT AFFECTED	POTENTIAL IMPACT	MITIGATION
 Marine mammals 	Noise from pile-driving during construction	 Use Marine Mammal Observers (MMO). Soft-start piling to reduce potential underwater noise.
 Birds 	Collision with turbine blades	 Use larger and more widely spaced turbines to decrease risk of collision. Blade clearance of at least 24.7m above sea level to reduce collision risks.
 Fish Shellfish 	Sub-sea cable Electro- Magnetic Field (EMF)	 Bury cables to reduce the potential impact of EMF.
 Commercial fisheries Boat users 	Gear damage from cable snagging	 Bury cables and conduct burial risk assessment.
 Commercial fisheries Boat users 	Disruption from construction in Project area	 Distribute Notice to Mariners for effective communication of Project works in the area. Construct in sections to avoid total exclusion Allow vessels to transit area after construction. Results from data collected show that very few vessels pass through the windfarm site.
 Aviation Military Commercial fisheries Boat users 	Collision with turbine structures	 Apply construction safety zones up to 500m around structures during construction activities. Inform Civil Aviation Authority (CAA) of locations, heights and lighting status of the wind turbines, including dates of construction.
 Visual impacts 	Artificial light pollution	 Avoid excess lighting/ minimise lighting, where feasible. Locate turbines at least 25km offshore.
 Marine archaeology 	Impact on marine archaeology	 Avoid identified seabed heritage assets by a minimum of 30m.





ONSHORE MITIGATIONS

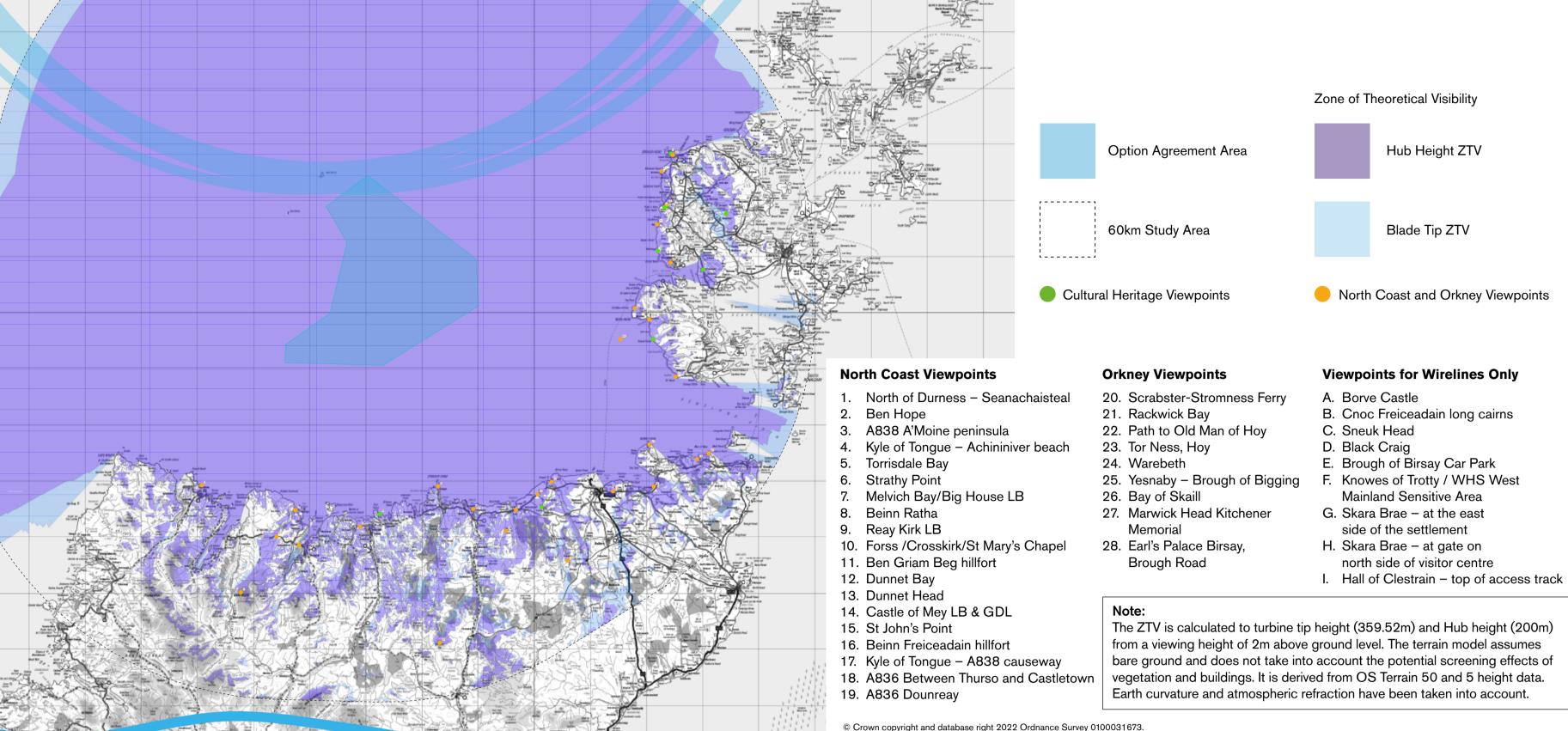


All of the onshore surveys were completed in May 2023. To reduce potential impacts that may arise from the Project, mitigations measures will be put in place. The below table outlines some of the proposed mitigations for the onshore impacts.

ELEMENT AFFECTED	POTENTIAL IMPACT	MITIGATION
 Traffic and access 	Damage to roads and road closures	 Implement Traffic Management Plan. Use dedicated haul roads to avoid using main roads. Undertake road repairs as required.
GeologyHydrology	Impact on sensitive areas	 Avoid sensitive areas, such as peatland and designated areas.
 Freshwater ecology 	Impact on freshwater fish	 Horizontal Directional Drill (HDD) under major river crossings.
 Onshore ecology 	Impact on terrestrial ecology	 Avoid sensitive areas and designated sites. Adhere to a Species and Habitat Protection Plan (SHPP). Ensure a qualified Ecological Clerk of Works (ECoW) presence at sensitive locations.
 Landscape and visual 	Visual impact of substation and cables	 Substation will be behind a bund. Screening and planting. Underground cables.
 Landscape and visual 	Artificial lighting	 Sensor controlled lighting. Substation will be behind a bund. Screening and planting. Avoiding unnecessary lighting.







© Crown copyright and database right 2022 Ordnance Survey 0100031673.

VISUAL IMPACTS

The map above illustrates the zone of theoretical visibility (ZTV) which is a computer-generated tool that establishes the likely maximum extent of the visibility of the proposed windfarm. The map also shows the key viewpoints agreed with NatureScot, Historic Environment Scotland, Orkney Islands Council and The Highland Council. To see the most up-to-date visual information available, please speak to a member of staff.

The visual impact of the onshore substation is also being considered and mitigation measures are proposed to screen the substation using a combination of earth bunds and planting, as illustrated in the map.







STAKEHOLDER CONSULTATION

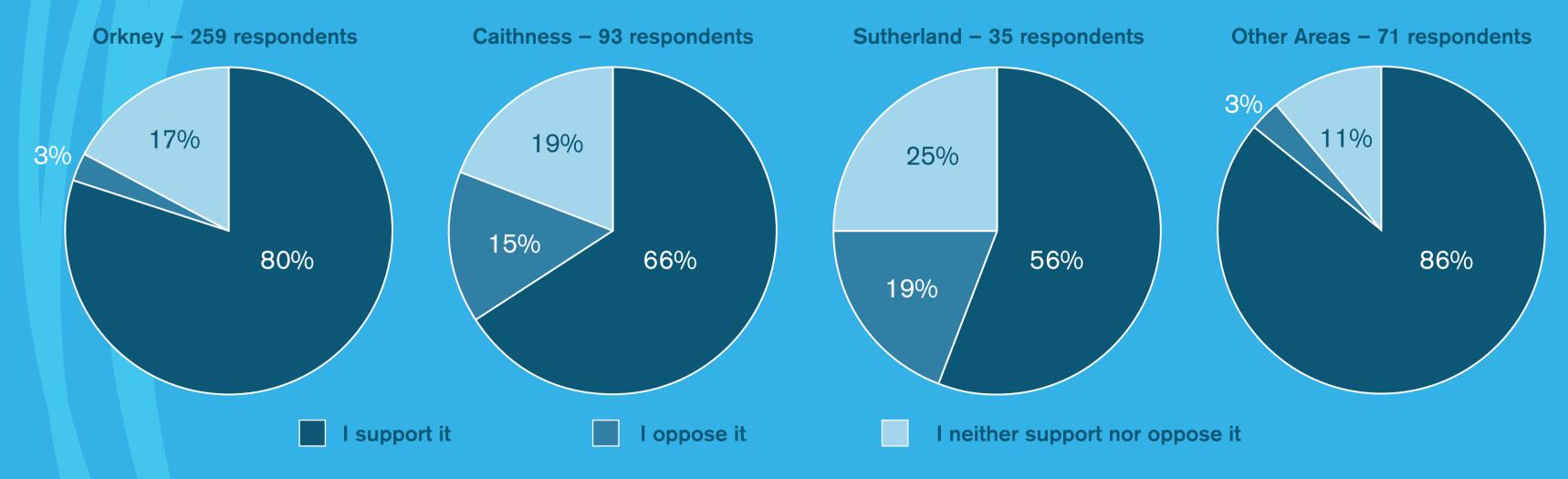
The West of Orkney Windfarm project team continues to undertake extensive consultation with a broad range of stakeholders. This process began during preparation of the ScotWind bid to The Crown Estate Scotland. A summary of specialist meetings and consultation events that have been undertaken since the site was awarded in January 2022 is provided below.

MONTH/YEAR	EVENT	
January 2022	West of Orkney Windfarm site awarded	
March 2022	Virtual public exhibition, including live Q&A sessions	
May 2022	Pre-Application Consultation (PAC)	
	Technical Working Groups established	
June 2022	1st round of topic-specific consultee meetings	
	1st round of community panels (Orkney, Sutherland, Caithness)	
July 2022	Durness Highland Gathering, Sutherland	
	Halkirk Highland Games, Caithness	
August 2022	Dounby Show, Orkney	
	Orkney County Show	
September 2022	2nd round of topic-specific consultee meetings	
November 2022	1st round of public consultation events x7	
January 2023	3rd round of topic-specific consultee meetings	
	2nd round of community panels (Orkney, Caithness, Sutherland)	

February 2023	One-to-one socio-economic stakeholder interviews begin
May 2023	1st round of onshore and offshore PAC events x7
June 2023	2nd round of onshore PAC events x2

Over 450 community questionnaires have been returned and respondents' reactions to the Project by location are presented below:

How would you describe your reaction to the West of Orkney Windfarm?







COMMUNITY CONSULTATION

The community questionnaire asked respondents about the impact that they felt the West of Orkney Windfarm might have on a range of factors, from the natural environment to their own quality of life. A summary of the output was presented at the project consultation events held in November and is available on the website. More detailed interviews were then held to explore in greater depth the issues raised through the questionnaire and at the events. The final consent applications will be accompanied by a Pre-Application Consultation (PAC) Report which will present the findings of this consultation along with how it has been used to shape the Project.

The table below shows a summary of the key questions asked and our actions in response to date.

YOU SAID	WEDID	
Will you come to Orkney West Mainland?	Pre-Application Consultation event in Sandwick Hall.	
Will you come to the Strathy/ Melvich area?	Pre-Application Consultation event in Strathy Hall.	
Will you undertake STEM projects?	£900k funding of UHI STEM outreach programme.	
Can you share more detail on the outcome of the Environmental Impact Assessment?	Details added to online display materials and at subsequent consultation events. The full EIA Report will be published alongside our submitted consent applications.	
Can you have events at times when working folk can attend?	Events scheduled across daytimes and evenings plus all materials replicated online. Dedicated phoneline, email address and freepost address for those who can't attend.	
How are you ensuring that public are informed at all the various stages of the project?	Regular consultation events, leaflet drops, online updates, public notices, and ongoing engagement with Community Panels, local business forums and education providers.	
What are you going to do about the impact on roads in Caithness?	Our Traffic Management Plan includes plans for: dedicated haul roads, delivering materials by sea where possible, and post-construction reinstatement and repair programmes.	
What will the benefit be to local communities?	Creation of jobs and other training and supply chain opportunities. The Project is committed to a Community Benefit Fund to support communities in Caithness, Sutherland and Orkney for the duration of the Project.	
Will there be local jobs?	Once built, the windfarm will require around 140 full-time, well-paid jobs for approximately 35 years.	
Can you reduce my energy bills?	Offshore wind projects will reduce our reliance on fossil fuels and, ultimately, energy bills as the cost of producing electricity from offshore wind is significantly lower than producing it from gas. Communities will also be able to direct their Community Benefit Fund expenditure to reduce local energy bills, should they choose to.	
What are you doing to protect birds?	Comprehensive assessment of potential impacts. Use larger and more widely spaced turbines to decrease the risk of birds colliding with blades. Blade clearance of at least 24m above sea level to reduce collision risks.	
What are you doing to protect sea life?	Comprehensive assessment of potential impacts. Use Marine Mammal Observers (MMO) during construction. Soft-start piling to reduce potential underwater noise.	
Will there be any overhead lines?	No, the Project will be connected to a new sub-station at or near Spittal using underground cabling.	
What about our dark skies?	Avoid unnecessary lighting offshore and onshore. Use sensor-controlled lighting at sub-station to minimise times lights are on.	







COMMUNITY BENEFIT

Community benefit funds (CBF) are voluntary schemes created by developers to help local communities to benefit from commercial developments. The West of Orkney Windfarm is developing a CBF which will be available when the windfarm starts generating power in 2029. The CBF will be shared across communities in Caithness, Sutherland, and Orkney. Engagement with local communities will ensure that the fund is managed effectively and fairly. Discussions to date suggest a broad range of priorities from short-term to longer term strategic goals, as outlined below:

SUGGESTED PRIORITIES FOR COMMUNITY BENEFIT FUNDING				
SHORT TERM	MEDIUM TERM	LONG TERM		
Supporting existing local initiatives, e.g. through sponsorship	Digital connectivity	Natural capital		
Local business grants	Affordable housing	Community ownership		
Support for operav hills	Suctaining communities	Suctaining the fund after		

Sustaining the fund after the windfarm

In the meantime, the West of Orkney Windfarm has been involved in sponsoring some community events, such as supporting students from Kirkwall Grammar School to attend a Discover Engineering course and Orkney Athletics and Running Club for equipment in preparation for the Island Games 2025.

The West of Orkney Windfarm are keen to hear your views! If you have any further suggestions on how the CBF can benefit your community, please scan the QR code and complete the online form.







INVESTING IN SCOTLAND

- Targeting 60% UK content of which 40% will come from Scotland
- Committing £140m during the initial development phase to develop the supply chain.
- Committing £900,000 along with other developers to expand the University of the Highlands and Islands (UHI) schools Science
 Technology, Engineering and Mathematics (STEM) outreach engagement programme.
- Exclusive EMEC innovation partnership around next

- Multi-million-pound contracts awarded to local companies.
- Agreement to create an operations and maintenance base at Scrabster Harbour, which will create ~140 full-time jobs for 35 years.
- Working with Orkney Islands Council to develop Scapa Deep Water Quay.

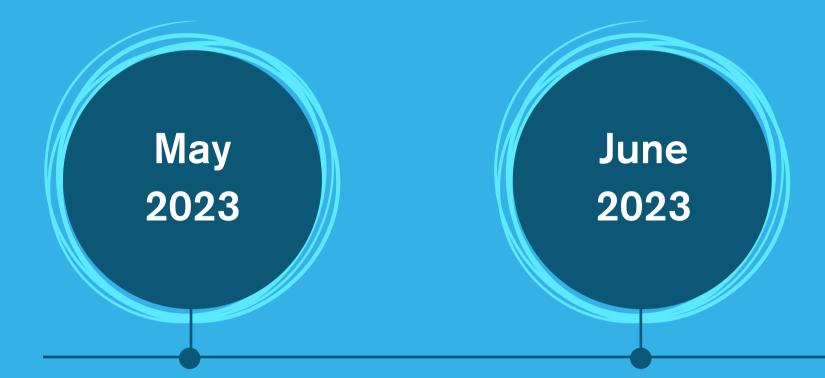
generation technologies.







WHAT'S HAPPENING NEXT?



First round of onshore and offshore **Pre-Application (PAC)** events.

Second round PAC events.

If you wish to respond directly to West of Orkney Windfarm, please write to Offshore Wind Power Limited by Friday 30th June 2023.

- Email: info@westoforkney.com
- Postal address: Freepost FCHANGE
- Phone: 01786 820 111



 \swarrow



Representations to relevant planning authority

Once the consent applications have been submitted, any representations should be made in writing to the Scottish Ministers for offshore elements and The Highland Council for onshore elements. Further details will be provided by the regulatory authorities, as appropriate.

www.westoforkney.com

begins.

