



Working together for a  
cleaner energy future

PAC report Appendix 4: Statutory Consultation 1 -  
Consultation Materials and Feedback

# MarramWind Offshore Wind Farm

December 2025

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## 4.1 Booklet



### MarramWind Offshore Windfarm

Consultation Booklet  
2024



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**Welcome**

MarramWind is a proposed floating offshore windfarm located off the north-east coast of Aberdeenshire. The exciting project, one of the first commercial floating offshore windfarms in the world, has the potential to deliver up to 3 gigawatts (GW) of clean, renewable electricity, which could power the equivalent of more than 3.5 million homes.

In January 2022, Crown Estate Scotland awarded ScottishPower and Shell an Option to Proceed Agreement for the offshore windfarm, and since then we have been developing our proposals. We are now undertaking our first round of public consultation to help inform our response in the preparation for our Environmental Impact Assessment (EIA) and necessary permits and consents that we will need in 2025. We invite you to read through this information booklet to learn about the project and share your views on our proposals. Your feedback is important and will help us to refine our plans. We will have a **public consultation** on again later this year before we submit our planning application to the relevant authorities.

Information on how to respond to this consultation can be found in the 'Have Your Say' section of this booklet.

#### Working Together for a Cleaner Future

ScottishPower and Shell have over 70 years' combined experience in Scotland's offshore environment, including another 50 years' experience offshore in the North Sea. We also have over 15 years of combined experience in floating offshore wind energy. As world-leading energy developers, we bring together decades of experience working offshore, a long history of working in Scotland, and an innovative approach to delivering offshore energy projects.



##### About ScottishPower

ScottishPower is part of Iberdrola Group, a global energy leader and the number-one producer of wind energy. Responsible for progressing Iberdrola Group's renewable energy strategy, ScottishPower oversees the development, construction and operation of windfarms throughout the world and currently has over 40GW of windfarms in operation, generating over 3 gigawatts (GW) of renewable energy.

ScottishPower continues to be one of the leading renewables developers in the UK and is investing almost £10 billion in the UK's energy system and onshore wind and solar generation, increasing home grown green electricity generation in the UK to support energy security.

ScottishPower is the first Regulated energy company to generate 100% of electricity from UK wind, focused on wind energy, smart grids and driving the change to a cleaner, greener future. ScottishPower is investing over £8m every working day to make that happen.



##### About Shell

Shell has over 50 years of experience delivering complex offshore projects in the North Sea, and today employs over 10,000 people in the UK and Ireland.

Floating wind is a natural extension of our capabilities in deeper offshore projects.

Shell today has more than 2.1GW of offshore wind capacity in operation and under construction across Europe and Asia. Globally, Shell is building an integrated power business that will provide customers with low-carbon and renewable energy solutions.

Shell's target is to become a net zero emissions energy business by 2050.



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The project hosted a public information day in May 2023 to keep the community informed on the proposed stages of the project at the early stage of the project's development.

## About MarramWind Offshore Windfarm

The proposed MarramWind Offshore Windfarm will consist of floating wind turbines. Situated in deep waters, approximately 75km off the north-east coast of Scotland at its nearest point, the turbines will be barely visible from shore.

The renewable electricity generated by MarramWind will play a pivotal role in achieving Scottish and UK net zero targets for 2045 and 2050, while also supporting energy security and promoting energy innovation.



For illustrative purposes only. The turbines used on MarramWind will have a different appearance at the water's surface.

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MarramWind is being developed with sustainability embedded as a core value throughout the full project lifecycle, from development through to construction, operation, and decommissioning, reusing existing assets.

We are adopting a strategic approach, reflective of Scottish Power and Shell's sustainability targets and applicable regulations. We have identified four sustainability key priority areas:

**1. Emissions Reduction:** we are committed to minimising, monitoring and measuring our greenhouse gas emissions.

**2. Ensuring Circularity:** our ambition is to utilise resources and materials efficiently and optimise reuse and recycling across the project lifecycle.

**3. Nature Positive Development:** we are committed to ensuring negative effects on biodiversity are avoided and minimised, and the project has an overall positive benefit on biodiversity.

**4. Optimising Social and Economic Performance:** we will seek to maximise the project's net economic value and social benefit to the local community, prioritising where possible, including employment and skills development and associated business and supply chain opportunities.

We are adopting a holistic approach to sustainability, with a focus on working together. For each key priority area, we are reviewing options for enhancing sustainability, including exploring existing opportunities and identifying new emerging opportunities. We will undertake studies to further explore and select which options can be taken forward. By adopting this approach, MarramWind will strive for an optimised sustainability performance that will benefit the environment and local communities.

MarramWind has defined a boundary area, shown in the map below. This does not show the final area the project will require for construction and operations. However, at this stage of the project's development it allows us to identify the area we will initially identify the best locations for the project's infrastructure. It also ensures we can make adjustments in the project design as we learn more through the environmental, environmental assessments, and stakeholder feedback.

The MarramWind project, generating 300MW of offshore wind power, will connect the 1.5GW of offshore wind capacity in the North Sea via the proposed Scottish and Shetland Electricity Networks (SSEN) Netherne Hub substation to the west of Peterhead. This was confirmed by National Grid in their 2022 'Hubs' report. In addition to the 1.5GW in 2024, it was also announced as part of a HND follow-up exercise that the remaining 1.5GW will also connect to the Netherne Hub substation. This is a crucial step for a successful energy connection. It is part of a larger picture. The Beyond 2030 Report builds on the HND aim for a direct, secure, and affordable energy link through the Netherne Hub. This ambitious plan aligns with the Climate Change Committee's targets and Scotland's ScotWind leasing round.



For illustrative purposes only. The turbines used on MarramWind will have a different appearance at the water's surface.



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## Consents and Project Programme

### The consenting process

Under the Scottish Government's National Planning Framework 4, MarramWind is classified as a National Development. This means that whilst the need for the project is determined by the Scottish Government's policy, planning permission, marine licences and other consents or licences are still required for construction and operational activities. This will require separate agreements for the following components for both the onshore and offshore elements of the project:

• **Section 36 consent:** under the Electricity Act 1989 (S36) is required for the development. Permission is granted by the Marine Directorate (on behalf of Scottish Ministers).

• **Marine Licences:** are required for works undertaken below the average level of high tide (known as Mean High Water Sprung) in the marine environment, including the installation of marine cables or other infrastructure on or within the seabed, such as cable protection measures, mooring line and anchor points, and the removal of marine infrastructure. Permission is granted by the Marine Directorate (on behalf of Scottish Ministers).

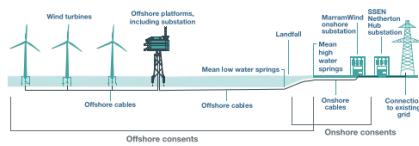
• **Onshore planning consent:** under the Town and Country Planning (Scotland) Act 1997 (TCPA) is required for all structures located above the average level of high tide (known as Mean Low Water Springs (MLWS)) and is granted by the local planning authority, Aberdeenshire Council.

Some consents and licences overlap between the intertidal zone.

This consultation presents the project as a whole, including onshore, intertidal and offshore infrastructure. This consultation, and the events we are hosting within the consultation period, are being delivered in line with the specific consultation requirements for the onshore and offshore components of the TOW and S36 consenting requirements. We will be holding a second consultation later this year that will further fulfil the consenting requirements for the onshore components (S36) as well as the consultation requirements for the relevant Marine Licences. The second consultation will be another opportunity for you to view our updated proposals and comment on a more refined project design.

We will also be undertaking an EIA, which is the process of assessing the likely significant effects the project will have on the environment. This year, we will prepare reporting to support a Habitats Regulations Appraisal (HRA). Further information on our EIA and HRA can be found in the 'Environmental Impact Assessment' and 'Habitats Regulations Appraisal' sections of this booklet.

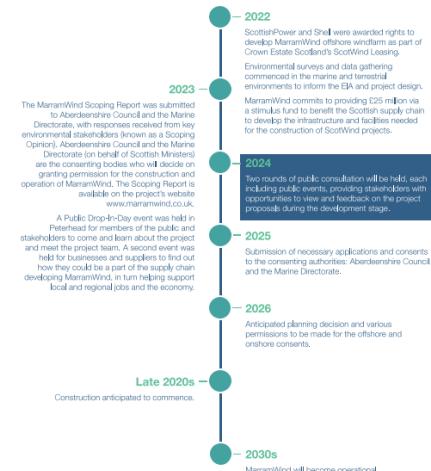
The diagram below shows the infrastructure required for the onshore and offshore elements of MarramWind, as well as the different types of consents required to the different consents we need to apply for. Further information on onshore and offshore infrastructure is provided in the following sections.



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### Project programme

Developing MarramWind involves significant work, but our priority is to deliver a project that minimises effects on local communities and the environment, while delivering clean, renewable energy. The programme below sets out the process and anticipated timeline towards developing MarramWind.



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### Offshore Key Infrastructure

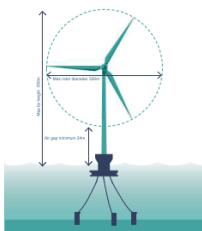
The offshore infrastructure includes floating wind turbines, cables that connect the turbines together, offshore platforms, and cables that transmit the power generated to shore.

#### The offshore infrastructure

The electricity generated by our floating wind turbines will be transmitted by cables to the shore where they will connect to the national grid. This will then continue to a substation site and ultimately the national grid. We are currently reviewing different options for the transmission of the electricity generated by the offshore windfarm. These include High Voltage Alternating Current (HVAC) technology, High Voltage Direct Current (HVDC) transmission technologies, or a combination of the two. The wind turbines will generate AC electricity, which is also the electricity type distributed by the national grid. It is necessary to convert the AC electricity generated to shore to transmit electricity using AC transmission. As the transmission distances get longer, the electrical losses increase. At a certain point, it becomes more effective to convert AC to DC and then use DC cables as DC cables do not experience electrical losses of the same magnitude as AC cables. The electricity will then be converted back to AC at a converter substation onshore.

The infrastructure required for all of the options is broadly similar, but HVDC transmission requires specific equipment for converting Alternating Current (AC) to Direct Current (DC) electricity. This is done using an offshore converter station when being converted back to AC at an onshore converter station. The electricity is then converted back to AC. HVDC transmission requires an additional offshore platform to house electrical equipment needed to stabilise the voltage of the electricity generated.

Other factors include the number and size of the cables and substations needed to deliver power to the national grid.



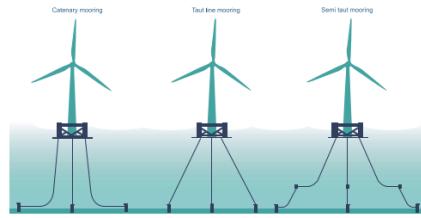
#### The floating wind turbines

The turbines have not yet been selected because further work is required to understand which models available at the time of construction will be more powerful and efficient than those available today. It is currently proposed that each turbine will individually have the capacity to produce up to 25 megawatts (MW) of power.

Depending on the final size of the turbines, the windfarm is expected to have between 126 and 225 turbines. The turbines will be located in a band, up to 350m high but as the windfarm will be located approximately 75m offshore at its nearest point, they will be barely visible.

Each wind turbine will sit on a floating unit that will be held in place by a combination of anchoring systems. The design of the mooring and anchoring system will depend on the type of wind turbine and floating platform.

The mooring options currently being explored are catenary mooring, taut line mooring and semi-taut mooring.



Catenary moorings are more slack than other options, which make them suitable for areas where the water depth changes e.g. due to low or high tides. However, this slack may involve the moorings resting directly on the seabed.

Taut line moorings are the tightest mooring lines. They take up less seabed space and are better at keeping the wind turbine stable.

Semi taut moorings are a combination of the taut mooring and the catenary mooring system. This option has shorter mooring lines and requires less seabed space than the catenary system.

Decisions on the type of mooring and anchoring and mooring system will be made as product development is advancing quickly and the future supply chain at the time of construction will have moved on from the current product availability. Further information on the options being considered will be available in our EIA. The chosen mooring system will comply with regulations, including navigational safety, and consider effects on the seabed and marine life.

For MarramWind we will depend on whether the project chooses HVAC or HVDC technology (or a combination of both), and the layout of the windfarm site. A separate assessment of the seabed may be considered as loadings for offshore staff.

If HVAC technology is used, the length of the offshore cable route may require the installation of additional equipment to support transmission. This equipment will be located onshore and will be located at the approximate mid-point between the windfarm site and where the cables make landfall, which is where the cables come onshore. It is unlikely these will be visible from shore.

#### Offshore cables

Electricity will be transmitted through offshore cables that connect the offshore windfarm with the onshore substation and subsequently the national grid. The voltage of the electricity will be converted to 132kV depending on whether HVAC or HVDC technology (or a combination of both) is used.

The cables will be protected by burying them typically 1-2m (where possible) below the seabed for most of their length. In some areas, where cable route protection cannot be achieved by cable burial, other alternative methods, such as concrete mattresses or rock berms (a layer of fragmented rocks laid over the cables), will be used to protect them.

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### Offshore Project Overview

The windfarm site is 684km<sup>2</sup>, within which the actual windfarm will be located. The windfarm and the placing of the floating turbines will be determined by detailed survey works. The water depths in this area range between 87m and 134m.

#### Cable corridor route selection and surveys

Throughout the development, multiple surveys have been, and will be, undertaken to determine the final offshore cable route and sites for infrastructure, with consideration given to the local environment, geology, and commercial activities.

At this point of the development, we have identified an offshore cable corridor from the windfarm site, within which the cable will be buried. While the cable corridor being considered is currently 1-3km wide along most of its length, the final cable route will be much narrower. The cable will be buried in the outer design works. The cables will then connect to the chosen landfall location(s) when it comes ashore, which may mean it splits into multiple cable route branches (known as a cable bundle) to account for the landfall on which and how many landfall locations are chosen. These cable routes have been shared with the fishing community and local authorities to assess and determine their suitability. An additional nearshore route option has also been identified (shown in orange on the map) overall to allow a degree of buffer to lay in an area where there is a high risk of dredging. The location of some of the landfall locations, the number of landfall locations required will depend on the transmission technology chosen, the number of floating turbines, the cables required to transmit the electricity to land, as well as land availability. This will be determined as we work towards the final design.

Different constraints are being considered in the planning of the offshore cable route and infrastructure, including local wildlife, natural habitats, geology, commercial fishing and shipping activities. Further information on the cable route selection and design process can be found in section 2.4 of the MarramWind Scoping Report available at [www.marramwind.co.uk](http://www.marramwind.co.uk).

Surveys of the offshore geology and environment have been carried out to understand the seabed and the seabed conditions and marine habitats. The data is currently being analysed and will help identify any local sensitivities, with further information being presented in the BA.

#### Landfall locations

An initial search area for the landfall site(s) extended from Troup Head in the north to Black Dog Beach in the south. This stretch of coast provided a range of options for landfall sites, while minimising the length of the cable corridor and reducing potential environmental effects and technical issues.

The constraints at the different landfall locations were assessed and key environmental and technical information gathered to identify the best locations and avoid sensitive areas, such as residential and ecological habitat areas. This narrowed down the search area to the areas between Black Dog Beach (to the south of the main coast (west of Fife Ness) to Sandford Bay (south of Peterhead).

Following confirmation of the onshore grid connection point to SSE's Netherton Hub substation to the west of Peterhead, the search area for the potential landfalls of the potential landfall sites were undertaken. This has enabled us to narrow down to three potential areas where the cable will be buried to be located:

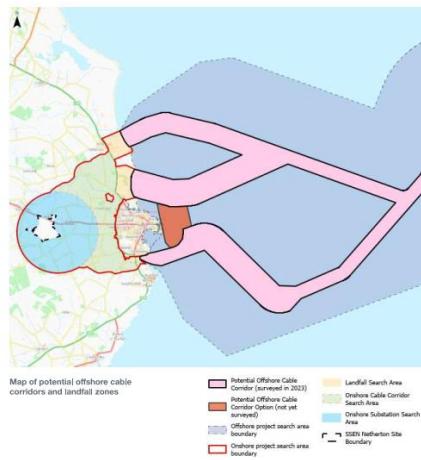
- Sandford Bay, south of Fergus Gas Terminal and north of Peterhead
- Netherfarthing, north of Peterhead
- Sandford Bay, south of Peterhead

It is possible that more than one of these landfall locations will be taken forward as part of the project design. This is because the project must ensure that these locations are suitable for the cable to be brought ashore, as well as for the onshore infrastructure required for the onshore power transmission, such as connection compounds. Within the onshore landfall locations, there are three potential landfalls to be identified where the offshore cables come onshore. These decisions will depend on engineering and environmental constraints, as well as local community and stakeholder engagement, the location of other developments, the cable route itself and the onshore substation location.

We are seeking your feedback on the offshore elements and landfall locations of our proposals. Please see questions in the Offshore and Landfalls sections of the feedback form to submit your views.

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**Onshore Key Infrastructure**

The onshore infrastructure includes a substation and onshore cables. The onshore cables run from the landfall site(s) to the onshore substation and subsequently to the point of connection at the SSE/Netherton Hub substation.

**Onshore cables**

The cables will be laid underground within a cable corridor surrounded by a wider temporary corridor for construction works. Any land disturbed during construction will be reinstated once the cables are installed. The width of the temporary corridor will be approximately 150m, but could occasionally be narrowed to avoid obstacles, such as trees or buildings. This will be varied and/or to reduce any environmental effects. There may be some locations where the corridor is widened to allow sufficient space for access, avoidance of obstacles and certain environmental requirements.

Points of access will be required for maintenance of the cables during operation.

**Onshore substation**

The onshore substation is a key part of the project's transmission system. This is the point where the voltage level of the electricity generated by MarramWind is increased to the voltage level required for the national grid.



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The onshore substation infrastructure will comprise of outdoor equipment, such as circuit breakers and equipment (e.g. transformers, switchgear and, if necessary, equipment to convert HVDC into HVAC).

A transformer is electrical equipment that helps change the level of voltage. Switchgear is electrical equipment that helps connect and disconnect the circuits from the electricity network.

Indoor equipment will be installed in a warehouse style building or several small buildings. Work is ongoing to identify the exact location of the substation, which will determine final equipment requirements and the size of the substation.

The permanent operational footprint of the substation and associated buildings could be up to 10ha. A temporary construction area of up to 4ha will also be required.

Subject to the design of the onshore substation, additional land will be required for drainage, environmental mitigation and landscaping.

**Grid connection cables**

These are the underground cables that connect from the onshore substation to the SSE/Netherton Hub substation. SSE/Netherton Hub substation does not form part of the MarramWind planning application. SSE/Netherton Hub substation planning application for their substation, with information available on their website [www.sse-transmission.co.uk](http://www.sse-transmission.co.uk).

**Onshore Project Overview**

We are carrying out work to identify the onshore cable corridor(s) and site for our onshore substation within the project boundary area, as shown on the map opposite. These are all located within a 3km search area (shown in light blue on the map) and will connect from the chosen landfall substation site, into which MarramWind will connect. This is considered a sufficient area in which to locate our onshore substation and associated equipment, which will ensure reliable and safe electricity transmission to the national grid. The actual land required for the substation will be smaller in size than the search area. The blue areas on the onshore cable corridor connecting the onshore substation to SSE/Netherton Hub substation will fall within the area of the landfall site(s). The location of the end of this corridor will follow the same process as the onshore cable corridor(s) from the landfall site(s) to the substation.

**The substation location**

Following environmental assessments and review of technical considerations, we have narrowed down the substation location to a small area (shown in blue squares on the map opposite). These are all located within a 3km search area (shown in light blue on the map) and will connect from the chosen landfall substation site, into which MarramWind will connect. This is considered a sufficient area in which to locate our onshore substation and associated equipment, which will ensure reliable and safe electricity transmission to the national grid. The actual land required for the substation will be smaller in size than the search area. The blue areas on the onshore cable corridor connecting the onshore substation to SSE/Netherton Hub substation will fall within the area of the landfall site(s). The location of the end of this corridor will follow the same process as the onshore cable corridor(s) from the landfall site(s) to the substation.

The next step will be for us to identify a preferred substation site through our environmental and technical assessments and stakeholder engagement, with sufficient space for its construction and operation.

**We are seeking your feedback** on the onshore substation site through our environmental and technical assessments and stakeholder engagement, with sufficient space for its construction and operation.



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**How Will MarramWind Be Built?**

Given the scale of the project, the potential availability of technology and service providers, and the likely timing of capacity at the point of grid connection, the construction of MarramWind may involve phased installations of both onshore and offshore infrastructure for the duration of the full construction period. This will be confirmed as the project progresses. How the project will be built is set out below.

**Offshore****Installing the offshore cables**

Before installation of the offshore cables, the seabed will be prepared and cleared of obstacles, such as debris and boulders. The offshore cables will then be laid by cable laying vessels in sections and joined together. The cables will be buried in the seabed 1-2m beneath the seabed wherever possible. Burial protects the cables from damage, with other protection methods such as concrete mattresses or rock berms used where burial is not possible.

**Wind turbine installation**

The wind turbines may be transported to the windfarm site as separate components to be installed on site or pre-assembled and towed to site, but the construction method will depend on the specific site to be determined. Ports with adequate capacity to support the installation work will be required but are not yet confirmed.

**Offshore platforms and substations**

The foundations for offshore platforms and substations will be built near to a port and transported to site for installation. Once the foundations are installed to the seabed, the offshore platforms and substations can then be lifted into place.



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Map showing onshore project area boundary for consultation

Proposal of Application Area Boundary  
Landfall Search Area  
Onshore Cable Corridor Search Area  
SSE/Netherton Hub Substation Boundary  
Potential Substation Site Area

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This map shows the search area for landfall(s), the cable corridor(s) and onshore substation site options. A much smaller area of land will be required for the construction, operation and maintenance of MarramWind.

The blue areas show the approximate locations of the substation site, cable corridor and potential site and not the actual size of the land required.

**Onshore Substation Search Area**  
SSE/Netherton Hub Substation Boundary  
**Actual Site Size**  
**Potential Substation Site Area**

**Landfall**

How the project is constructed will depend on the landfall site(s) chosen, features of the coastline and other technical or environmental constraints.

The onshore part of the landfall sites will include joint bays where the onshore and offshore cables are joined together. There are two types of joint bays: landfall pits within which different sections of cables are joined together.

Access to a landfall construction site may require temporary access routes and/or the strengthening of existing roadways. A temporary construction compound will also be required in the area, but its location is to be determined.

The cables at the landfall sites will be buried and installed either by open cut construction or by Horizontal Directional Drilling (HDD). Open cut will involve digging a trench through the intertidal zone and laying the cables in the trench or within a trench or within a duct. The trench will then be backfilled with the excavated material.

The HDD method will not require the digging of a trench, but the cable will be installed by being pulled horizontally through the ground from an entry point onshore to an exit point offshore. The cables are then pulled through the duct without disturbing the surface.

A decision has not yet been reached on the preferred solution, but will be dependent upon further design work and local conditions.

**Prioritising local benefits**

One of our key objectives is to prioritise the use of Scottish ports and harbours for the construction of MarramWind, and to deliver local economic benefits for Scottish communities. Furthermore, we actively seek collaboration with local suppliers to deliver essential services to the project. This will help deliver increased local employment, business opportunities and a thriving supply chain, ultimately contributing to a more sustainable and prosperous Scotland.

Our commitment to local and regional policy objectives to provide local socioeconomic benefits from renewable energy projects.



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**Environmental Impact Assessment****What is an Environmental Impact Assessment?**

Before we can build our offshore windfarm, we need to carefully consider the effects it might have on the environment and the local community. To do this, we will be completing a detailed EA that will be presented to the public. The EA will focus on the effects on offshore infrastructure (including cables and substations on land and at sea) and will focus on offshore infrastructure (including cables and substations at sea as well as any ancillary equipment).

The EA will help us understand any potential effects our project might have, and how we can minimise them. This could involve adjusting the layout of the windfarm or using different construction methods.

**Approach to assessments**

In January 2023, we submitted our EA Scoping Report to Aberdeenshire Council and the Marine Directorate (on behalf of Scottish Ministers), which outlined the environmental assessments that we proposed to undertake. The EA Scoping Report also outlined the potential significant effects from the project. The Council and Scottish Ministers consulted with specialist stakeholders on the EA Scoping Report, and their feedback and input has been used to refine our assessment approach. The Scoping Report can be found on the MarramWind website at [marramwind.co.uk](http://marramwind.co.uk).

We have undertaken an extensive programme of surveys to better understand current environmental conditions. We will provide more information later this year about the results of these surveys, including where we will summarise the emerging baseline data findings from the surveys.

Alongside our surveys, we are also engaging with key stakeholders, including government and statutory consultees, to better understand the potential effects we are undertaking (as detailed below). This will help us understand more about the potential effects from the project and help us to identify any mitigation measures.

The EA will assess the likely significant effects of MarramWind for all project phases, including construction, operation and maintenance, and decommissioning. We will also consider the design of the onshore and offshore infrastructure. We are considering all potential significant effects to ensure that they are either avoided or mitigated in the project design, where possible.

**Onshore****Installing the onshore cables**

The onshore cables will be installed by digging a trench and subsequently laying the cables directly into the trench or installing a duct in the trench through which the cables are then pulled at a later stage. The trench or duct will be backfilled with soil during these methods. It may be necessary to create sensitive features such as watercourses and roads.

The onshore cables will be installed in sections, therefore joint bays and link boxes will be required at intervals. A temporary construction compound will also be required in the area, but its location is to be determined.

The cables at the landfall sites will be buried and installed either by open cut construction or by Horizontal Directional Drilling (HDD). Open cut will involve digging a trench through the intertidal zone and laying the cables in the trench or within a trench or within a duct. The trench will then be backfilled with the excavated material.

The HDD method will not require the digging of a trench, but the cable will be installed by being pulled horizontally through the ground from an entry point onshore to an exit point offshore. The cables are then pulled through the duct without disturbing the surface.

A decision has not yet been reached on the preferred solution, but will be dependent upon further design work and local conditions.

**Onshore substation infrastructure**

Installation of the onshore substation infrastructure will require site preparation works, construction of substation buildings, installation of electrical equipment and associated infrastructure (as required, therefore an access road(s) will be constructed).

A temporary construction compound will be required, but this will be demolished, and the land reinstated when that substation infrastructure construction work is completed.

**MarramWind in Operation**

MarramWind is expected to begin generating electricity in the early 2030s.

**Operational maintenance**

When MarramWind is in operation, periodic testing of the onshore cables is likely to be carried out.

The onshore substation is unlikely to be permanently staffed, although some maintenance and operational visits will be required. Infrequently, equipment may need to be maintained or replaced and HGVs may be used.

For the offshore elements of MarramWind, maintenance requirements will depend on the infrastructure required to support the wind turbines, floating platforms, electrical transmission infrastructure and final layout of the windfarm.

Maintenance will typically be undertaken via a service operation vessel (SOV) or other specialised vessel(s) and may also be used when necessary to prevent damage to equipment, repair corrosion, and carry out all necessary repairs to maintain safe operation of the windfarm.

**Decommissioning**

Decommissioning MarramWind is anticipated to involve the removal of all offshore infrastructure above the seabed. The cables could be removed or left in place to minimise environmental effects and offshore navigational safety issues associated with their removal.

We will avoid unnecessary disturbance to the seabed and will consider both project operation and decommissioning in the design and development.

The onshore substation is likely to be removed and the site then reinstated.

The decommissioning works are likely to be undertaken in advance of the construction process of MarramWind. A decommissioning plan and programme will be developed prior to construction and updated during the project. The plan will be reviewed in light of any changes to industry best practice, relevant legislation and policy, or developments in technology. This decommissioning plan will be submitted to the relevant planning authorities to Aberdeenshire Council and the Marine Directorate (on behalf of the Scottish Ministers).



For illustrative purposes only. The turbines used on MarramWind will have a different appearance at the water's surface.

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**Cultural heritage**

The project has identified onshore and offshore local heritage sites and sites of national importance, such as scheduled monuments, listed buildings and archaeological assets. To ensure they are avoided where possible, Designated Authorities and the local sites will be undertaken to gather more information on both known and as yet unknown heritage assets.

Where it is not possible to avoid likely significant effects, we will mitigate these effects through engagement with Historic Environment Scotland and Aberdeenshire Council. Any archaeological finds made through our work will be recorded and reported to Historic Environment Scotland.

**Landscape and visual**

The landscape of northern Aberdeenshire varies from sandy bays, dunes and rocky headlands to low hills and shallow valleys inland, with rivers and woodlands. The area is made up of rural settlements and farms, and some include industrial buildings and ports, such as the port of St Fergus. The coastal landscapes are locally designated and protected by Aberdeenshire Council as Special Landscape Areas.

We have consulted with NatureScot and Aberdeenshire Council to map and record local landscapes and visual aspects of the Aberdeenshire area. This information is being considered as we develop the project, to help protect the landscape and visually sensitive areas.

The onshore wind turbines will be located around 75km at their nearest point from the Aberdeenshire coast and consequently they will be barely visible, even in clear weather, from the land.

Onshore wind infrastructure includes the onshore substation, which alongside other project infrastructure will be sensitively sited and designed. Environmental mitigation and architectural measures will be developed to minimise visual impact and, where possible, provide long term enhancement of the landscape. The cables will be installed underground.

**Traffic and transport**

We will work with Transport Scotland and Aberdeenshire Council to assess and develop measures to mitigate any effects of increased traffic that may be used for construction access. Management and mitigation plans will be developed and will include a commitment to working with other contractors to manage the effects of multiple traffic on the roads and local infrastructure. Plans will also include enforcement of any restrictions on delivery times, required by Aberdeenshire Council to minimise the effect on people, wildlife, and buildings located nearby the proposed construction access route.

The operation, maintenance and decommissioning of MarramWind are not expected to have any noticeable long-term effects on the local road network.

**Air quality**

The air quality in Peterhead and the wider Aberdeenshire area is very good. Monitoring is undertaken by the Scottish Environment Protection Agency and has been in place for a long period of time.

Potential effects on air quality from MarramWind could arise from temporary construction activities, including construction traffic and dust along the exposed cable route and around the substation. We will take short-term only and appropriate mitigation measures will be put in place through the Construction Environmental Management Plan to address any issues.

**Greenhouse gases and climate change**

We have used climate change data to understand how the environment is likely to change due to climate change, such as temperature, rainfall and sea level rise, can affect the construction, operation and decommissioning of the project. We are continuing to develop the project to be resilient to climate change, to ensure the continued safe operation of the windfarm with little disturbance to energy generation.

Although MarramWind will be providing renewable energy, some greenhouse gas emissions will be emitted during the construction and installation of the infrastructure, as well as during the operation and decommissioning of the project. A full project life cycle assessment of greenhouse gas emissions, from construction to decommissioning, will be undertaken to demonstrate the environmental impact of our project commitment to sustainable development and environmental enhancement. We will be continuously looking for opportunities to identify and implement measures that reduce greenhouse gas emissions within the construction and maintenance phases. Measures such as these will be reported within the carbon assessment.

**Shipping and navigation**

We have carried out vessel traffic surveys during the summer and winter months. These surveys have identified potential areas of use around the proposed windfarm site. This will be important information to help us prepare the Navigational Risk Assessment, following the guidance set out by the Maritime and Coastguard Agency. We will also use the vessel traffic survey information including vessel traffic survey data. We will engage with key stakeholders to understand any potential impacts on shipping, including commercial, fishing and recreational vessel operators. The Navigational Risk Assessment will conclude with a list of measures that are required to ensure the project is safe for all users.

**Onshore wildlife and habitats**

Ecological surveys and data collection are being undertaken where onshore infrastructure may be sited. This includes habitat mapping and protected species surveys (e.g. otter, water vole, badger), bat roost checks and surveys for red squirrel. The survey of wintering geese and swan surveys has commenced, which will establish their distribution within the wider project area. The work is ongoing including further bat and protected species surveys, including bird and vegetation surveys.

**Habitats Regulations Appraisal**

A HRA is required under Scottish law to be undertaken where there is potential for a project to affect certain types of nature conservation sites.

The conservation sites considered in the HRA are:

- **Special Areas of Conservation** (including those proposed but not yet formally designated), which are designated for the presence of "qualifying features". These may include specific habitats, combinations of habitats, species or assemblages of species, or combinations of these.
- **Special Protection Areas (SPA)** (including those proposed but not yet formally designated), which are designated for the presence of "qualifying features". These may include specific habitats, combinations of habitats, species or assemblages of species, or combinations of these.

- **Ramnar Sites**, which are designated for the presence of "qualifying features" that are defined by criteria set out in the Convention on Wetlands of International Importance (the Ramsar Convention). These are typically wetland habitats that support important international waterfowl.

Alongside the work to deliver the EIA, the Project team has prepared an HRA Screening Report. That report explores the HRA process and identifies the sites that are likely to be affected by the project. Aberdeenshire Council and the Marine Directorate (on behalf of Scottish Ministers) are the competent authorities who are responsible for the HRA, so they will refer to it with a formal call for comments, which will be used to inform the next stage of the HRA. Where the HRA Screening Report identifies the potential for "qualifying features" to be affected by the project, and the Screening Opinion agrees with this conclusion, it will become necessary for an Appropriate Assessment to be undertaken by the Project team and the Marine Directorate (on behalf of Scottish Ministers).

Under the Conservation (Natural Habitats, &c.) Regulations 1994 (as amended), the Conservation of Habitats and Species and Habitats and Species Regulations 2017 (as amended), the project must provide information to (i) Aberdeenshire Council and (ii) the Marine Directorate (on behalf of Scottish Ministers) to determine whether an Appropriate Assessment is required, and to subsequently undertake this as necessary. The Project team will submit a Report to Inform Appropriate Assessment, which will be submitted to Aberdeenshire Council and the Marine Directorate (on behalf of Scottish Ministers) alongside the EIA. The HRA Screening Report and the Report to Inform Appropriate Assessment will be publicly available upon submission.



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**Onshore water environment**

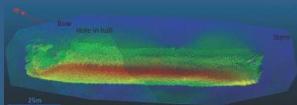
There are various onshore water bodies, such as rivers, ponds and lochs in the area, which could be affected by the project. We are considering all elements of the onshore water environment, including potential immediate sources of flood risk (including fluvial, coastal and surface water) and water resources that may be affected by the project.

We are engaging with the SEPA and Aberdeenshire Council to develop an understanding of the water environment. The EIA will consider potential effects posed by the project to the water environment, including water quality and/or quantity and potential changes in flood risk. Numerous embossed environmental measures, including mitigation by design and site specific measures, will be developed and put forward as part of the water environment assessments to mitigate potential effects.

**An underwater discovery**

On 2 June 2022, as part of MarramWind's offshore site investigations, an unexpected discovery was made and later identified as an uncharted wreck. It was confirmed by one of our archaeologists as the SS Tod, a merchant vessel of the Russian Volunteer Fleet that was torpedoed on 11 September 1917 by a German U-boat in World War I while sailing from Blyth, north-east England to Archangel, Russia.

As the location of the Tod was not yet mapped, we shared the wreck's location with the UK Hydrographic Office who issued official chart corrections. On 26 June 2022, a temporary exclusion zone around the wreck to protect it during our works. We are engaging with Historic Environment Scotland to establish a long-term archaeological exclusion zone to ensure the preservation of this important find.



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**Benefits and Opportunities**

Offshore wind has the potential to generate considerable economic value to Scotland, particularly the north-east, where it can play an important role in supporting energy transition to a low carbon economy. MarramWind will work closely with local communities, businesses and other key stakeholders to help Scotland maximise the value that offshore wind has to offer.

MarramWind is committed to maximising socio-economic benefits and will create industrial, economic, employment and skills benefits for local communities in Scotland throughout the project lifecycle. MarramWind is seeking to stimulate investment in Scotland's supply chain capabilities, which will help us to maximise Scottish involvement where possible.

To help unlock the value of floating offshore wind, we commit to providing £25 million via a stimulus fund to benefit the Scottish supply chain. The fund will invest in Scottish businesses to support the development of products and services for offshore wind, as well as supporting companies to innovate and upskill, including small and medium-sized enterprises (SMEs).

We are seeking your feedback on the potential opportunities for MarramWind to benefit a positive impact. Please use the Questions and Opportunities section of the feedback form to submit your views.

We commit to providing funding of  
**£25 million**  
 for MarramWind to benefit  
 the Scottish supply chain

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**Stakeholder Engagement**

We are committed to ensuring stakeholders understand our proposals and can influence how we approach the project's design, construction and operation. Our vision is to develop an offshore windfarm in a considered way that is sensitive to the needs and expectations of local stakeholders whilst creating long-lasting benefits and opportunities for the people in the north-east of Scotland.

Since being awarded the opportunity to develop MarramWind in 2022, our team has been undertaking environmental, social and environmental studies, and has engaged closely with a wide range of stakeholders, including government bodies, environmental organisations, community representatives, the business industry and landowners, to gain their early input.

We are committed to open and transparent engagement and communication, which will help us obtain the best outcome for all. We have considered carefully to inform the final design decisions that we take. As part of our commitment to engaging with you, we will:

- Share accessible and transparent information;
- Engage with and consult a wide range of stakeholders;
- Fully consider all feedback received;
- Identify issues and work with stakeholders to seek mutually acceptable solutions; and
- Coordinate how our project is progressed in the area with other developers to maximise benefits and mitigate cumulative impacts.

For the latest information on MarramWind or to stay up to date with future engagement events please visit our website [www.marramwind.co.uk](http://www.marramwind.co.uk). Scan the QR code or follow us on X @MarramWind. If you have any outstanding questions not covered in the consultation materials, you can email us on [stakeholder@marramwind.com](mailto:stakeholder@marramwind.com).

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**Working with other developers**

Due to the nature of our proposed energy project in the north of Peterhead and the surrounding area, we recognise the need for collaboration to ensure local communities are sufficiently informed about the different proposals and opportunities and to explore and mitigate potential cumulative effects, and to maximise the socio-economic benefits associated with our projects. That's why we are active members of the Peterhead Developers Group, which brings together developers and other industry initiatives across the north-east on a regular basis to share learning and future plans.

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## Have Your Say

## Providing your feedback

Thank you for taking the time to read through our proposals. Now that you have more information on the proposed project, we would like to hear from you to share your feedback with us and let us know what you think. Your feedback is important to us, as we will use it to inform our design decisions before we submit our planning application in 2025. All feedback received will be considered.

You can provide your feedback through one of the following ways:

- Online, using the feedback form on our website [www.marramwind.co.uk](http://www.marramwind.co.uk)
- Email us your comments at [stakeholder@marramwind.com](mailto:stakeholder@marramwind.com)
- Fill in a paper feedback form. These will be available throughout the consultation at all two consultation events and at Peterhead Library.
- Write to us at FREEPOST MarramWind.

The consultation period is from 27 May 2024 to 11 September 2024. Feedback received after the deadline may not be considered.

We cannot respond to every response received individually. Details on how we have considered feedback in the refinement of our proposals will be provided in the full application due this year, at which we will present a more refined project design for you to comment on. We will also present at the end of the consultation period, the revised proposals, and provide information on how it was considered. In addition, a Pre-Application Consultation document, covering both environmental and planning aspects, will be published as part of our planning application.

Comments made to us at this stage are not formal representations to the Planning Authority or the Scottish Ministers. Following the submission of our planning application to the Planning Authority in late 2025, you will have further opportunity to make representations to Aberdeenshire Council and the Scottish Ministers. The Scottish Ministers, who will determine whether to grant planning permission and other required consents for the Project.

## Find out more

All information related to the proposals is on our website [www.marramwind.co.uk](http://www.marramwind.co.uk).

If you have any questions, including requesting materials in an alternative format, you can email [stakeholder@marramwind.com](mailto:stakeholder@marramwind.com).

## Consultation events

We will be holding two public consultation events during the first consultation period, which we welcome members of the local community and other stakeholders to attend. Members of our project team will be available to provide more information and answer any questions you may have.

The events will take place on:

- **Thursday 6 June, 1pm – 7pm**, Palace Hotel, Prince St, Peterhead AB42 1PL
- **Friday 7 June, 1pm – 7pm**, Longside Parish Church Hall, 4-10 Inn Brae, Longside, Peterhead AB42 4QN

## Online consultation event

We will also be hosting two online presentations about our proposals. This will be another opportunity for people to learn more about the MarramWind Offshore Windfarm to find out about the project.

The online consultation events will take place on:

- **Thursday 30 May, 6pm – 7pm**
- **Wednesday 26 June, 6pm – 7pm**

If you would like to join, please email [stakeholder@marramwind.com](mailto:stakeholder@marramwind.com).

## Next steps

We will be hosting a second consultation later this year on a more refined project proposal, which you will have another opportunity to provide feedback on.

Further details of our second consultation period will be released in due course, including the meeting locations.

When we submit our application, Aberdeenshire Council and the Marine Directorate (on behalf of Scottish Ministers) will determine whether to grant permission for the project. During the representation period of the determination, you will have further opportunity to comment on our proposals for MarramWind.

**Scoping Report:** a document that sets out the project's understanding of consenting requirements and will inform the preparation of the Environmental Impact Assessment report to come.

**ScotWind leasing process:** process led by Crown Estate Scotland to enable developers to apply for seabed rights to plan and build windfarms in Scottish waters.

**Socio-economic benefits:** benefits can include job creation, local investment, and reduced carbon emissions, which contribute to economic growth and environmental improvement.

**Supply chain:** the network of companies and activities involved in producing and delivering everything needed for the windfarm, from manufacturing the wind turbines and equipment to maintenance.

**Supply chain stimulus fund:** helps to stimulate economic growth and job creation within the supply chain by encouraging investment and development.

**Transformer:** an item of electrical equipment, contained in a substation that is used to change the voltage for power transmission and distribution at different levels.

**Switchgear:** the electrical equipment used in substations to manage and control the flow of electricity.

**Wind turbines:** the infrastructure that collects the wind energy and converts it into electricity for connection to the power network. Each wind turbine consists of a number of blades that connect to a rotor hub, which rotates an electrical generator.



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## Glossary

**Accommodation platform:** an offshore platform that supports living quarters for offshore personnel.

**Crown Estate Scotland:** manages the Scottish Crown Estate on behalf of the Scottish Ministers, including most of the seabed off Scotland's coasts.

**Decommissioning plan:** a plan describing the removal of offshore infrastructure at the end of its useful life, plus disposal of equipment.

**Digital photographic:** photography taken from a drone to collect data on a variety of wildlife including birds, marine mammals and fish.

**Ecological:** relating to the environments of living things and their environments.

**Electricity transmission:** the transmission of electricity via cables from the turbines to the substations.

**Energy security:** having a reliable and diverse supply of energy to meet demands.

**Environmental Impact Assessment (EIA):** the evaluation of how the planned project might affect the natural environment, living organisms, and people throughout its construction, operation, and eventual decommissioning.

**Floating unit:** a floating structure on which the wind turbines are installed, providing it with buoyancy and stability.

**Gigawatt (GW):** a unit of power equal to one billion watts. It is a measure of the rate at which energy is generated or consumed per unit of time.

**Habitat:** the natural environment in which an animal or plant normally lives or grows.

**High Voltage Alternating Current (HVAC):** a type of high voltage electrical current, in which the direction of the flow of charge changes back and forth at regular intervals or cycles, in the UK it would be at 50 cycles per second (50 Hz).

**High Voltage Direct Current (HVDC):** a high voltage electrical current that flows in the same direction.

**Holistic Network Design (HND):** a coordinated network design exercise completed by the National Grid Electricity System Operator (NGESO) to propose a recommended design for onshore and offshore design for connection of offshore wind projects to the UK electricity network. This is an NGESO process that has been established to facilitate the UK Government's ambition for 50GW of offshore wind by 2030.

**Horizontal Directional Drilling (HDD):** a trenchless method of installing underground cables using a drill.

**Intertidal zone:** the area where the sea meets the land between high and low tides.

**Intertidal zone:** the area where the sea meets the land between high and low tides.

**Life cycle:** the sequence of phases through which a project progresses. It includes initiation, planning, execution, and closure.

**Marine Directorate:** responsible for the integrated management of Scotland's seas on behalf of the Scottish Government.

**Mean high water springs (MHWS):** the average total tidal height throughout the year of two successive low waters during those periods of 24 hours when the spring tides occur.

**Mean low water springs (MLWS):** the average total height throughout the year of two successive low waters during those periods of 24 hours when the neap tides occur.

**Marine energy:** a position where total greenhouse gas emissions would be equal to the emissions removed from the atmosphere, with the aim of limiting global warming and reducing climate change.

**Offshore cables:** there are electrical power cables that are laid on the seabed, buried in the seabed, or suspended between the wind turbines, and then run the electrical power cables from the wind turbines to the offshore substation.

**Offshore platform:** a concrete, steel or hybrid substructure that is fixed to the seabed and supports offshore infrastructure above the sea surface.

**Offshore substation:** an offshore platform containing electrical equipment that collects energy generated from wind turbines and prepares it for transmission to shore via cables.

**Onshore substation:** the substation on land that connects the power transmission from the offshore substation to the national grid. The onshore onshore may change the electricity voltage to the voltage level required for the national grid connection.

**Renewable electricity:** also known as green electricity or clean electricity, it is electrical power generated from renewable energy sources such as wind, hydro or solar.



## 4.2 Banners



### Working Together for a Cleaner Future

ScottishPower and Shell have over 70 years' combined experience in Scotland's offshore environment, including another 50 years' experience offshore in the North Sea. We also have over 15 years of combined experience in floating offshore wind energy.

As world-leading energy developers, we bring together decades of experience working offshore, a long history of working in Scotland, and an innovative approach to delivering offshore energy projects.



#### About ScottishPower

ScottishPower is part of the Centrica Group, a global energy leader and the number one provider of wind energy in the UK. We are progressing Centrica Group's renewable energy projects in the UK, ScottishPower managing the development, construction, build and operation of windfarms throughout the world and currently has over 40 operational windfarms generating over 3 gigawatts (GW) of renewable energy.

ScottishPower continues to be one of the leading renewables developers in the UK and is investing almost £1 billion between 2023-25 across wind, solar, battery storage, gas generation, increasing home grown green energy generation in the UK to support energy security.

ScottishPower is the first integrated energy company to generate 100% green electricity in the UK. Focused on wind energy, smart grids and battery storage to deliver a truly greener future, ScottishPower is investing over £3bn every working day to make that happen.



#### About Shell

Shell has over 50 years of experience delivering complex offshore projects in the North Sea, including the world's first 1,200 MW wind farm in 2000, and the first floating wind energy projects in the UK, ScotlandPower managing the development, construction, build and operation of windfarms throughout the world and currently has over 40 operational windfarms generating over 3 gigawatts (GW) of renewable energy.

Shell's target is to become a net zero emissions energy business by 2050.

ScottishPower and Shell have over 70 years' combined experience in the North Sea. We also have over 15 years of combined experience in floating offshore wind energy.



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### About MarramWind Offshore Windfarm

The proposed MarramWind Offshore Windfarm will consist of floating wind turbines. Situated in deep waters, approximately 75km off the north-east coast of Scotland at its nearest point, the turbines will beenary visible from shore.

The renewable electricity generated by MarramWind will play a pivotal role in achieving Scottish and UK net zero targets for 2046 and 2050, while supporting energy security and advancing energy innovation.



MarramWind is being developed with sustainability embedded at a core value throughout the full project lifecycle. From development through to construction, operation and maintenance and decommissioning. We are adopting a strategic approach, reflective of our sustainability ambitions, to identify key priority areas and align our strategy to industry best-practices and applicable targets and aspiration policies. We have identified four sustainability key priority areas:

- 1. Emissions Reduction:** we are committed to minimising, monitoring and measuring our greenhouse gas emissions where feasible.
- 2. Embedding Circularity:** our ambition is to utilise resources and materials efficiently and effectively, to reduce waste and maximise the reuse of materials.
- 3. Nature Positive Developments:** we are committed to ensuring negative effects on biodiversity are avoided and mitigated and that the project has an overall positive benefit on biodiversity.
- 4. Optimising Social and Economic Performance:** we will seek to maximise the project's social and economic benefit to the local community, including employment and skills development and enhanced business and supply chain opportunities.

We are acceding to local planning authorities and all key partners consider the project to be a positive development, supporting economic growth and employment, including seeking positive decision options, revised timelines and funding opportunities. We will undertake studies to further explore and refine which options can be taken forward. By adopting this approach, MarramWind will strive for an optimum sustainability performance that will benefit the environment and local communities.



### About MarramWind Offshore Windfarm

MarramWind has defined a boundary area, shown in the map below. This area will allow the final area the project will require for construction and co-site sections. However, at this stage, MarramWind is seeking your feedback to us to work along a larger area to identify the ideal locations for the project's infrastructure, including the connection to the National Grid. This will be used to inform the project design that may arise through our design development, environmental assessments, and stakeholder feedback.

The MarramWind project, generating up to 600MW of renewable wind power, will connect the first 1GW of offshore wind power to the National Grid via the proposed Scottish Offshore Wind Connection (SOFC) and the Netherne Hub substation to the west of Peterhead. This was proposed by National Grid in the Scottish Offshore Wind Connection (SOFC) report. In March 2023, this was announced as part of a HND follow-on environmental assessment. The SOFC will also connect to the Netherne Hub substation. While the HND is a crucial step for renewable energy connection, it is part of a larger picture. The Royal Decree 2023 has been issued, allowing for a clean auction, and it's envisaged energy future throughout the 2026s. This project will be aligned with the UK's Climate Change Committee targets and Scotland's Scottish Windfarms round.



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### Consents

Plans for MarramWind are still being developed, your feedback on our proposals will help refine the design of the project.

Some consents and licences overlap between the MWPS and MWHS – this area is known as the intertidal zone.

This consultation proposes the project as a whole, including onshore, intertidal and offshore areas. The onshore and intertidal areas and the offshore areas being proposed, are all subject to the relevant planning and environmental assessments. We will therefore need to make separate applications for the following key consents, in both the onshore and offshore areas:

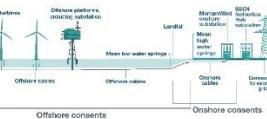
#### • Section 36 consent, under the Planning Act 1990 (S36) is required for the development. Permission is granted by the Local Planning Authority (on behalf of Scottish Ministers).

• Marine Licences are required for works undertaken across the average low of the tide (MLLW) and the Mean Low Water Springs (MLWS) to undertake marine licensing activities (e.g. cables, Hullhead or seabed structures) and to undertake surveys and seabed. Permission is granted by the Marine Directorate (on behalf of Scottish Ministers).

#### • Offshore planning permission, under the Town and Country Planning (Scotland) Act 1997 (TCPA) is required for all marine areas to be used. Below is a diagram showing the location of Mean Low Water Springs (MLWS) and is granted by the local planning authority, Aberdeenshire Council.

We will soon be undertaking an EIA, which is the process of assessing the likely significant effects the project could have on the environment. At this time, we are proposing to submit a Habitats Regulation Appraisal (HRA). Further information can be found on the 'Environmental Impact Assessment and Habitats Regulations Appraisal' banners.

The diagram below shows the infrastructure required for the onshore and offshore elements of the project, and which sections of the project are subject to the different consents we need to apply for.



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## Project Programme

Developing MarramWind involves significant work, but our priority is to deliver a project that minimises effects on local communities and the environment, while delivering cost, innovation and time. The programme below sets out the process and anticipated timeline towards developing MarramWind.



## Offshore Key Infrastructure

The offshore infrastructure includes floating wind turbines, cables that connect the turbines together, offshore platforms, and cables that transmit the power generated to shore.

### Offshore infrastructure

The electricity generated by our floating wind turbines will be sent to shore via a substation on the seabed and then connected to the onshore infrastructure substation site and the national grid.

We are reviewing options for the electricity transmission system to the high voltage transmission system (HVS) and the national grid.

Options include connecting to the existing HVS or building a new one, or connecting to the existing national grid or building a new one.

The turbines will generate AC electricity – the same as our homes. Due to the long distance of the cables, it is more efficient to convert the AC transmission to DC and then convert it back to AC at a converter substation onshore. The electricity is connected back to AC at a converter substation onshore.

The infrastructure required for both options is similar. For the AC option, Marram Wind Farm will require an offshore platform for the converter substation, and an offshore platform for equipment to stabilise the turbines.

**Offshore platforms and substations**

Offshore platforms are required to house electrical infrastructure and for connecting the cables between the turbines with the cables that connect to the onshore substation.

In HVS technology, no equipment to support transmission may be required on offshore structures (moorings between the turbines) or onshore. In AC technology, some equipment may be required on the platform to produce a specific voltage of the electricity generated.

**The floating wind turbines**

Turbine technology is advancing quickly and we have not yet selected a model yet, but we expect each turbine to produce up to 20 megawatts (MW) of power.

Depending on the size of the turbines, which could have a blade tip height of up to 100 metres, the turbines are expected to have between 120 and 225 turbines.



## Offshore Project Overview

The offshore windfarm site

The windfarm site covers an area of 654km<sup>2</sup>. The water depths in the area range between 8m and 134m.

### The cable corridor

The cables will be run in a cable corridor, within which the final cable route will be located. At present, our cable corridor is currently 2.5m wide along most of its length, but the final cable route will be much narrower. The cable route will connect from the windfarm site to the shore locations.



### Cable corridor route selection and surveys

We are undertaking surveys to determine the final offshore cable route and sites for infrastructure. There may be multiple cable routes, and the final cable route will be buried 1.5m or more below the seabed. The route will be selected depending on which and how many landfall locations are chosen. An onshore connection point will be chosen, and the route will be determined in accordance with design feasibility in an area where offshore constraints limit accessibility or design. The connection point will be determined by Marram Wind Farm in accordance with the design requirements of the transmission technology selected and the environmental and technical requirements to connect the electricity to land, as well as land availability. The site will be determined as we work towards a final design.

Offshore constraints considered during planning and route selection include local wildlife, natural habitats, geology, commercial fishing and shipping activities.

Surveys have been conducted along the cable corridor route to identify potential landfall and marine habitats. The route is currently being analysed and will help identify any local constraints, with further information being presented in the EIA.

**Landfall locations**

An initial section area for the landfall site(s) is the point where the voltage level of the electricity generated by Marram Wind Farm is transferred to the national grid.

The onshore substation infrastructure will comprise of outdoor onshore/terrestrial high voltage electrical equipment (e.g. switchgear, switchgear and fuses), equipment to convert HVS to AC/HVS.

Information on the potential landfall sites will follow.

**Grid connection cables**

An onshore cable is electrical equipment that helps change the level of electricity voltage. These cables connect the onshore substation to the national grid.

**Onshore cable corridor**

The cables will be laid or re-grown within a cable corridor surrounded by a wider, larger landfall area. Any land disturbed during construction will be reinstated once the cables are installed. It is expected that the cable corridor will be approximately 150m, but could occasionally be removed to avoid obstacles such as trees, rocks, or other features, or restricted and/or to reduce any environmental effects. There may be some location where the cable corridor will need to alter route to access, avoidance of obstacles and certain construction requirements.

Point of access will be required for maintenance of the cables during operation.

**Onshore substation**

The onshore substation is a key part of the project's transmission system. It is the point where the voltage level of the electricity generated by Marram Wind Farm is transferred to the national grid.

The onshore substation infrastructure will not be required until the connection application. SSEINs is progressing a separate planning application for that substation with information available on their website – [www.sseinstransmission.co.uk](http://www.sseinstransmission.co.uk).



## Onshore Key Infrastructure

The onshore infrastructure includes a substation and onshore cables.

The onshore cables run from the landfall site(s) to the onshore substation and subsequently to the point of connection at the SSEIN Netherton Hub substation.

### Onshore cables

The cables are laid or re-grown within a cable corridor surrounded by a wider, larger landfall area. Any land disturbed during construction will be reinstated once the cables are installed. It is expected that the cable corridor will be approximately 150m, but could occasionally be removed to avoid obstacles such as trees, rocks, or other features, or restricted and/or to reduce any environmental effects. There may be some location where the cable corridor will need to alter route to access, avoidance of obstacles and certain construction requirements.

The permanent operational location of the substation and associated buildings could be up to 150m. A temporary construction area of up to 100m will be required.

Subject to the design of the onshore substation, additional land will be required for drainage, environmental mitigation and landscaping.

### Grid connection cables

An onshore cable is electrical equipment that helps change the level of electricity voltage. These cables connect the onshore substation to the national grid.

**The substation location**

Following environmental assessments and review of technical considerations, we have narrowed down the substation site to five options (shown by the dark blue squares on the map below). These are all located within



## Onshore Project Overview

We are carrying out work to identify an onshore cable corridor(s) and site for our onshore substation within the project boundary area, as shown on the map. We are engaging with technical stakeholders, such as the Scottish Environment Protection Agency (SEPA), Historic Environment Scotland, NatureScot and Aberdeenshire Council to understand the potential effects from MarramWind's construction and operation on the local area and what we can do to reduce or avoid these.

### The onshore cable corridor

To identify an onshore cable corridor, we are carrying out environmental and technical assessments to identify a corridor in which to locate our substation as close to the grid connection point, which will ensure the most efficient connection to the national grid. The actual land required for the substation will be smaller in size than shown on the map. The onshore cable corridor will connect the chosen landfall sites and the onshore substation to the point of connection to SSEINs Netherton Hub substation. The onshore cable corridor will be decided based on the results of the environmental assessments, technical constraints and stakeholder feedback.

### The substation location

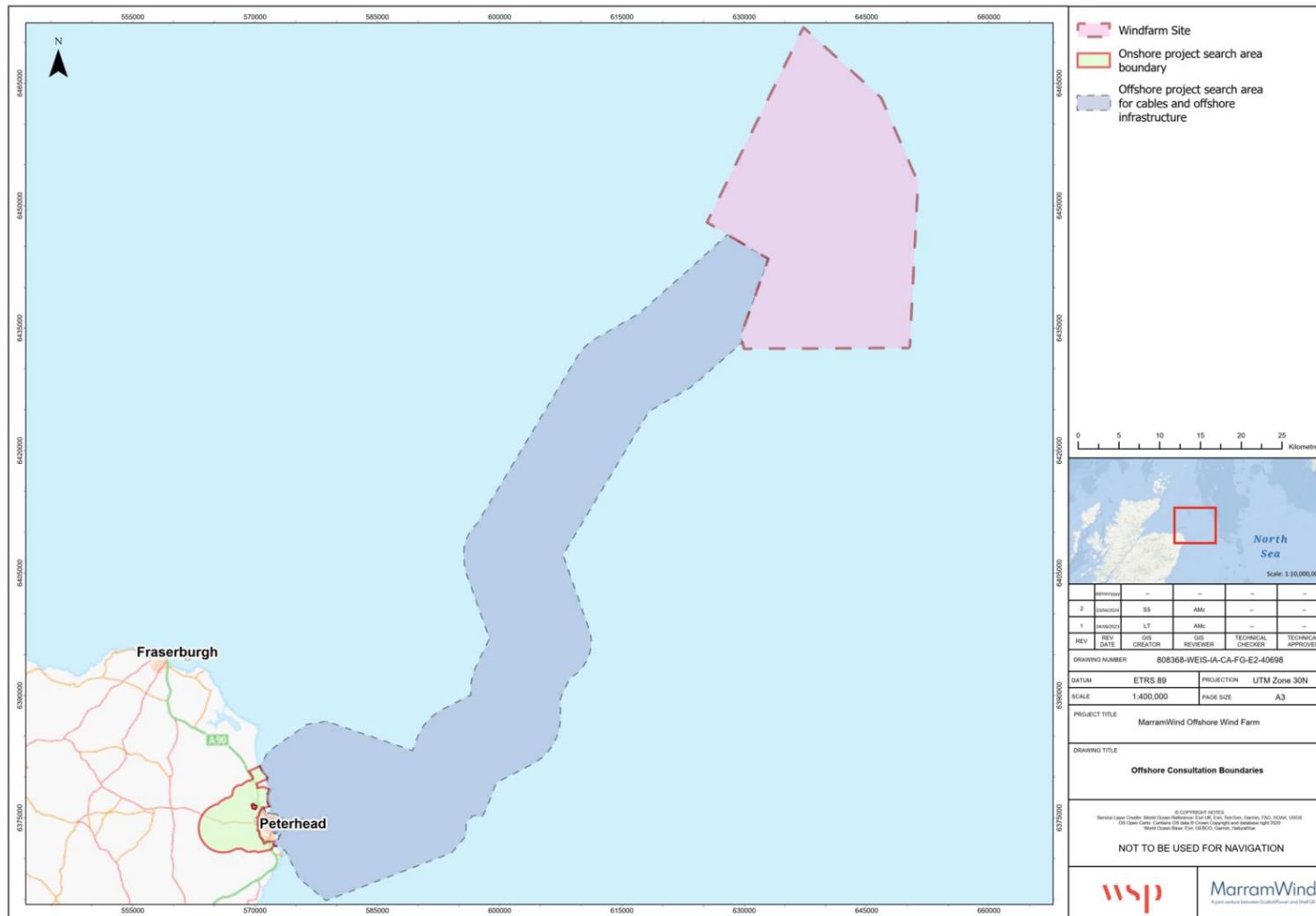
Following environmental assessments and review of technical considerations, we have narrowed down the substation site to five options (shown by the dark blue squares on the map below). These are all located within



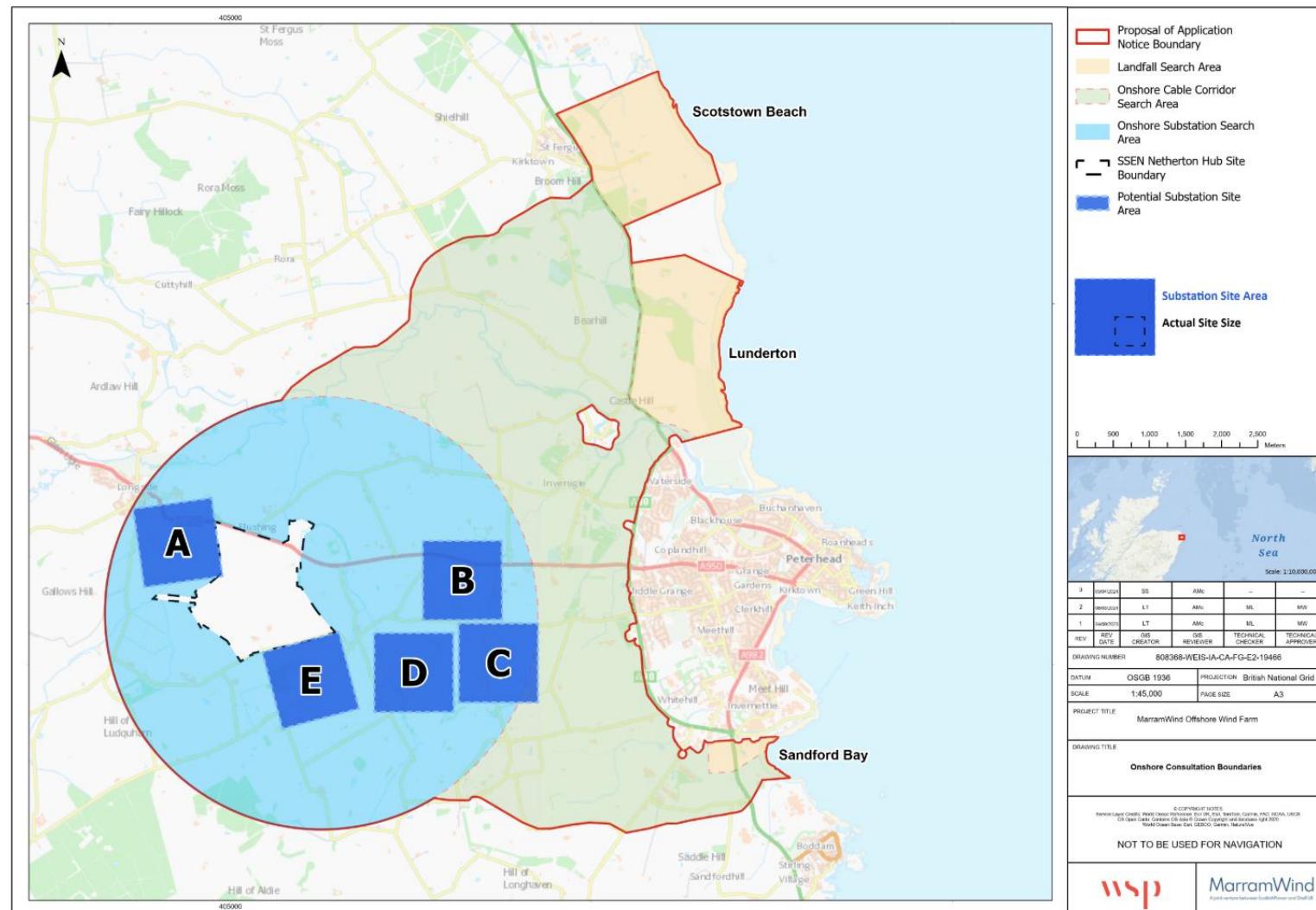


## 4.3 Maps

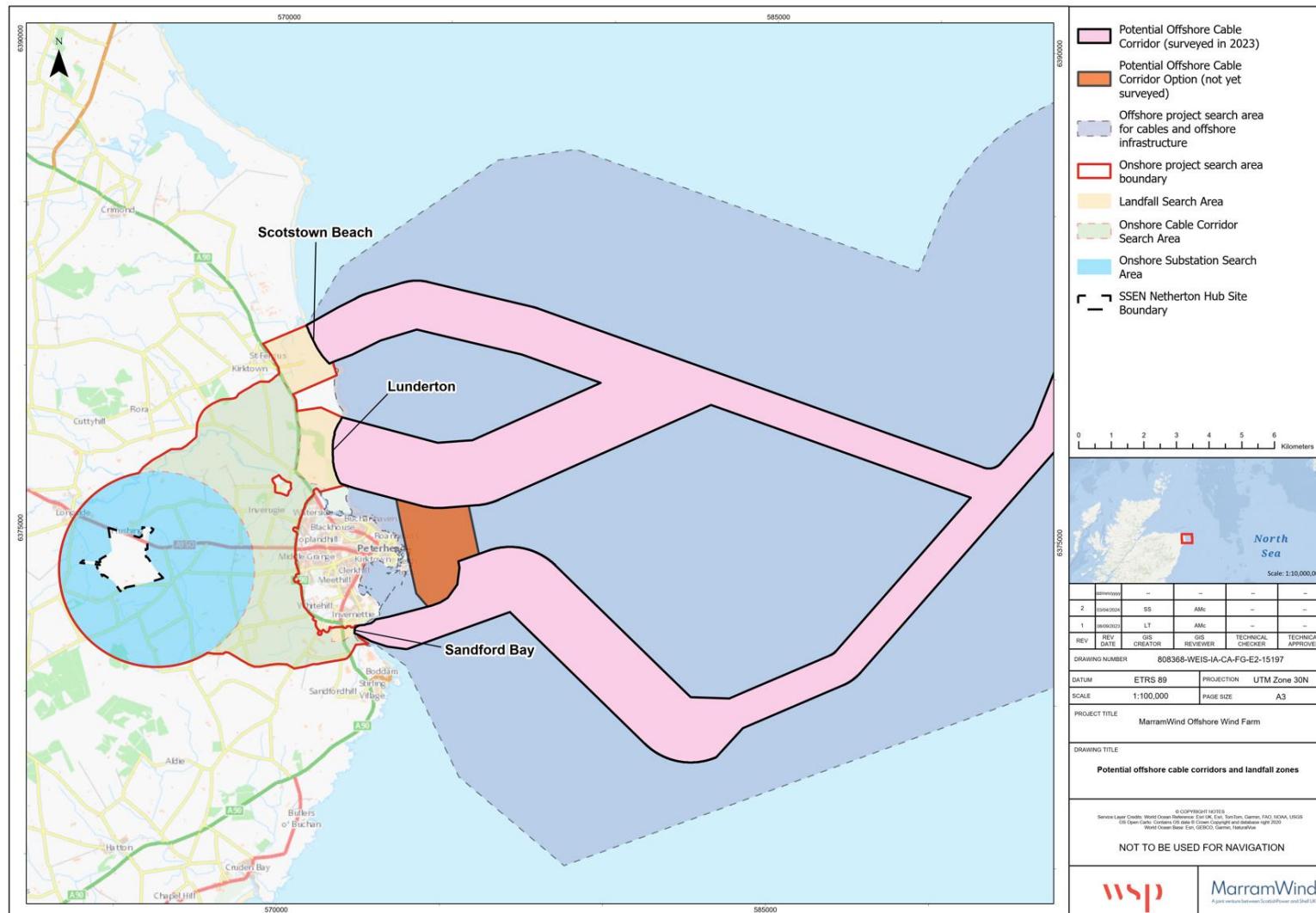
#### 4.3.1 Offshore Consultation boundaries search area



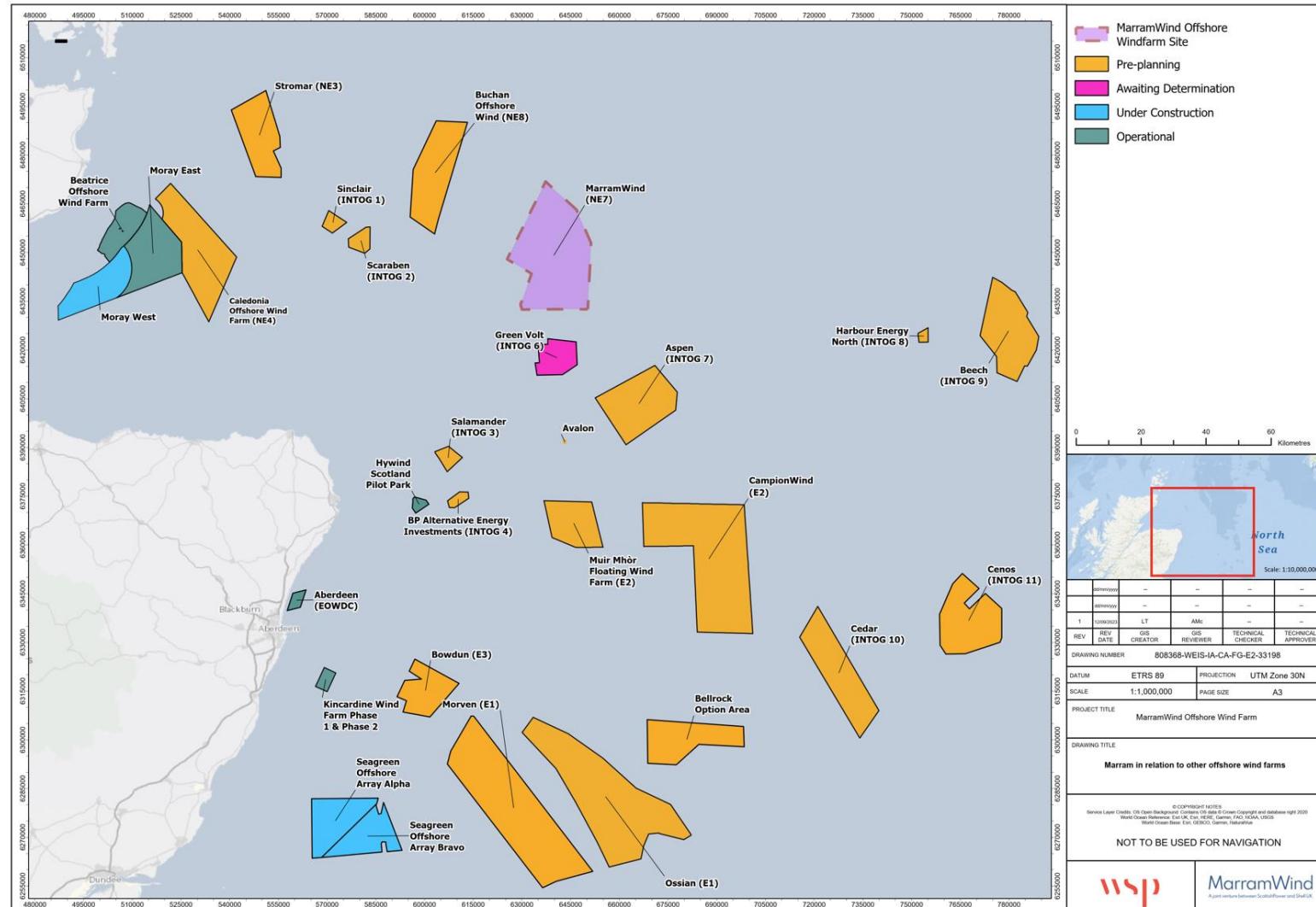
### 4.3.2 Onshore Consultation boundaries (1:45,000 scale)



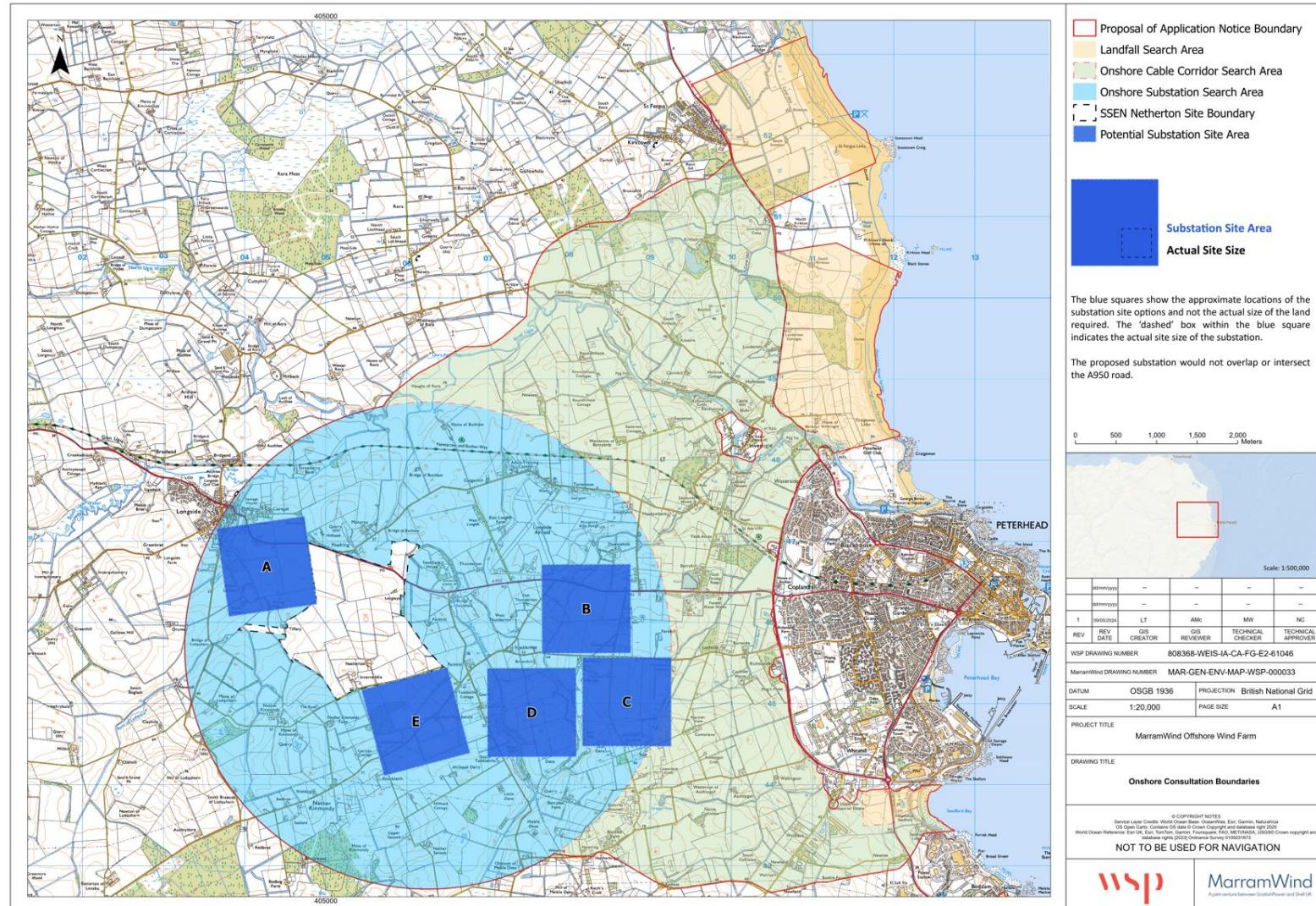
#### 4.3.3 Potential offshore cable corridors and landfall zones



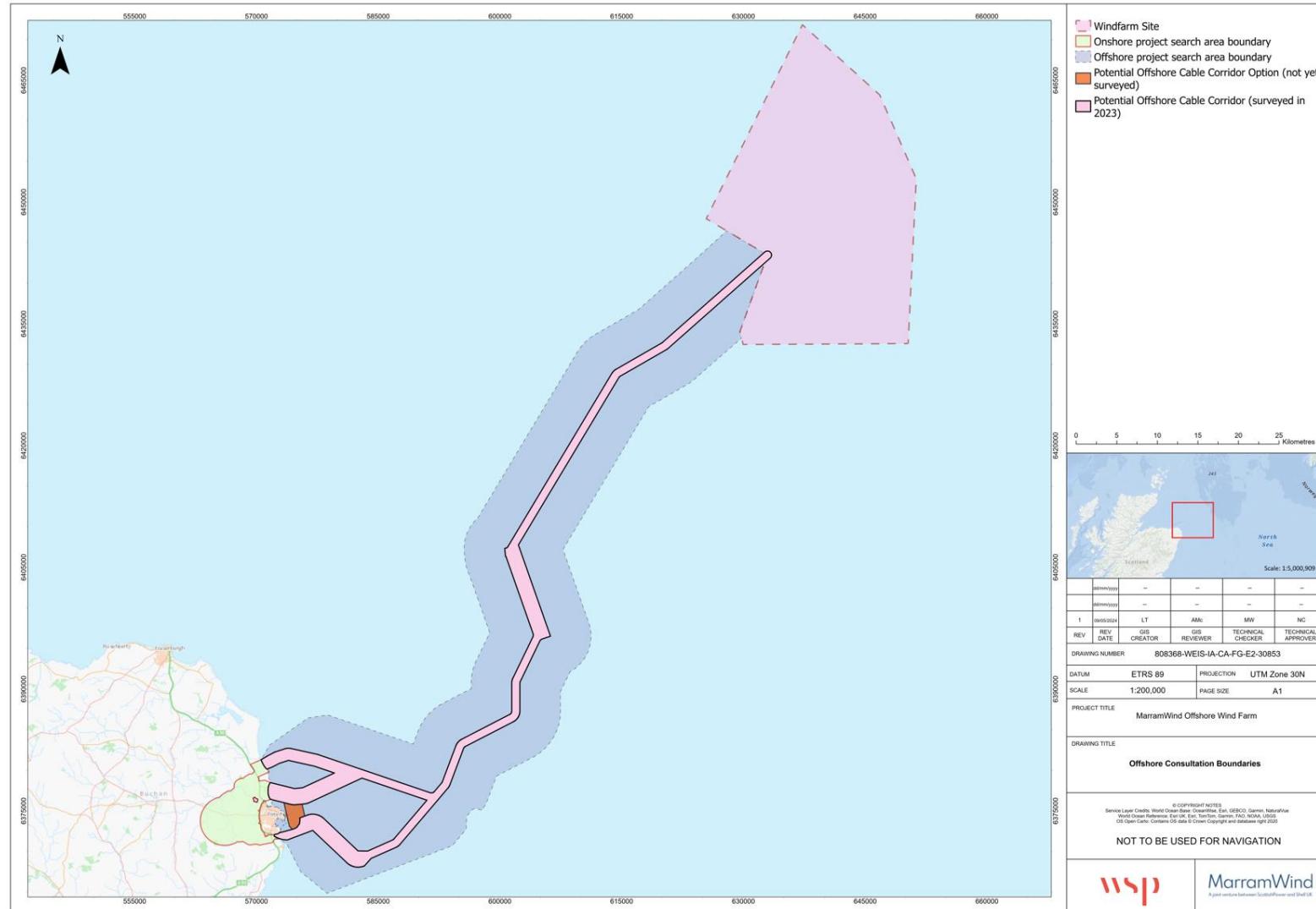
#### 4.3.4 MarramWind in relation to other offshore wind farms



## 4.3.5 Onshore Consultation boundaries (1:20,000 scale)



#### 4.3.6 Offshore Consultation boundaries with cable corridor



## 4.4 Questionnaire

Page 1 of 7



MarramWind Offshore Windfarm

### Consultation One Feedback Form

Thank you for taking the time to read through our proposals for the MarramWind Offshore Windfarm. We hope that you found the information presented useful and it has given you more of an understanding about the project at this stage in the development process.

This feedback form is one of the ways in which you can get involved, have your say and help us refine our proposals. Please submit your response to us by **11:59pm on 1 July 2024**. Following the submission of our planning applications, which we intend to submit in late 2025, you will have further opportunity to make representations to Aberdeenshire Council and the Marine Directorate, who will determine whether to grant planning permission and other required consents for the Project.

If you have any further questions or feedback about this consultation, the project or you are interested in supply chain opportunities, please email [stakeholder@marramwind.com](mailto:stakeholder@marramwind.com).

---

**1. In the context of addressing climate change, do you believe offshore windfarms are an important part of the solution?**

- Please tick one
- Strongly agree
  - Somewhat agree
  - Neutral
  - Somewhat disagree
  - Strongly disagree

---

### Offshore

**2. Please rank from 1 – 6 which of the following aspects of the offshore elements of MarramWind are of most interest to you, 1 being of most interest and 6 being of lesser interest.**

- Please write 1 - 6 in the boxes provided
- Windfarm site
  - Cable corridor(s) to landfall(s)
  - Offshore platforms and substations
  - Construction methods and duration
  - Operational phase and lifespan
  - Decommissioning

Page 2 of 7

3. Regarding the proposed offshore aspects of the project, please select your top 3 from the following topics which are most important to you and provide any additional thoughts you would like MarramWind to consider below as we develop our proposals.

Please tick three

- Air quality
- Aviation
- Construction methods and installation
- Environmental protection
- Marine habitats
- Noise
- Shipping and navigation
- Other
- Amenity and recreation
- Commercial fisheries
- Heritage and archaeology
- Marine wildlife, including birds
- Seascape, landscape and visual considerations
- Sustainability and climate change

4. In relation to the proposed offshore infrastructure (such as the windfarm site, offshore platforms and offshore cable corridor), please use the box below to share with us anything you believe we should be considering in our assessments or project design.

## Landfall(s)

5. Landfall is the point at which the cables transferring power from an offshore windfarm reach the shore. Regarding the proposed landfall(s), please select your top 3 from the following topics which are most important to you and provide any additional thoughts you would like MarramWind to consider below as we develop our proposals.

Please tick three

- Air quality
- Amenity and recreation
- Commercial fisheries
- Construction methods and installation
- Environmental protection
- Flood risk and water resources (rivers, lochs, water supply)
- Intertidal habitats
- Intertidal wildlife, including birds
- Heritage and archaeology
- Noise
- Traffic and transport
- Seascape, landscape and visual considerations
- Shipping and navigation
- Sustainability and climate change
- Other

6. Regarding the proposed landfall(s), please share with us anything you believe we should be considering in our assessments or project design.

## Onshore

7. Please rank from 1 – 6 which of the following aspects of the onshore elements of MarramWind Offshore Windfarm are of most interest to you, 1 being of most interest and 6 being of lesser interest.

- Onshore cable route corridor(s)
  - Location of project substation site
  - Method of construction
  - Operational phase and lifespan
  - Built form and design of project substation
  - Decommissioning

Please write 1 - 6 in  
the boxes provided

8. Please select your top 3 from the following topics which are most important to you and provide any additional thoughts you would like MarramWind to consider below as we develop our proposals:

- Air quality
  - Construction methods and installation
  - Environmental protection
  - Flood risk and water resources (rivers, lochs, water supply)
  - Heritage and archaeology
  - Landscape and visual considerations
  - Noise
  - Onshore ecology habitats
  - Onshore wildlife, including birds
  - Sustainability and climate change
  - Traffic and transport
  - Other

Please tick three

Page 5 of 7

9. In relation to the proposed onshore infrastructure (such as onshore cable corridor and substation site options), please share with us anything you believe we should be considering in our assessments or project design. We have labelled the substation site options (A, B, C, D and E) in the consultation materials if you need to refer to a specific site in your response.

## Benefits and opportunities

10. MarramWind is committed to leaving a positive legacy for the local area, environment and communities. Regarding the proposed project as a whole, please rank from 1 – 5 the following opportunities you think MarramWind should focus on to make a positive difference, 1 being of most importance (top) and 5 being of lesser importance (bottom)

- A Community Benefit Fund for community projects and groups
  - Jobs and skills creation
  - Supply chain engagement and procurement
  - Sustainability
  - Enhancing ecology, wildlife and the landscape

Please write 1 - 5 in  
the boxes provided

- 11. Please add any other ideas you have for MarramWind to leave a positive legacy:**

## Feedback on consultation

We would now appreciate some feedback on our consultation itself.

**12. Based on the information presented in this consultation, how would you describe your understanding of the MarramWind project at this early stage of its development?**

- Please tick one
- Very good
  - Good
  - Fair
  - Poor
  - Very poor

**13. How did you hear about the MarramWind Offshore Windfarm consultation?**

- Please tick one
- MarramWind project website
  - Local newspaper advert/Notice
  - Flyer
  - Radio
  - Word of mouth
  - Other

---

## About you (optional)

To help gain an understanding of who has provided feedback, we would be grateful if you could tell us a bit of general information about you. We will only use the information you provide for the purpose of improving future events.

MarramWind Limited is a 50/50 joint venture between Shell New Energies Holding Limited (“Shell”) and ScottishPower Renewables (UK) Limited (“SPR”). Information provided to MarramWind Limited will, in practice, be processed by Shell and SPR as joint operators of the JV. Please therefore refer to the respective Privacy Notices of Shell ([www.shell.co.uk/privacy](http://www.shell.co.uk/privacy)) Shell and SPR ([www.scottishpowerrenewables.com/pages/privacy](http://www.scottishpowerrenewables.com/pages/privacy)) in respect of how your data will be processed.

**14. Where do you live?**

- Please tick one
- Burnhaven
  - Boddam
  - Flushing
  - Longside
  - Kirktown
  - Mintlaw
  - Peterhead
  - St. Fergus
  - Other
- 
- 

**15. Please tick the following, as appropriate to your status**

- Please tick one
- Local resident
  - Landowner
  - Local business owner
  - Interested in supply chain opportunities
  - Community Council
  - Elected representative
  - Member of fishing community
  - Energy sector
  - Other
- 
- 

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**General Data Protection Regulation**

WSP is conducting this survey on behalf of MarramWind Ltd to gather your views on their proposals.

We will keep your details in line with our privacy policy <https://www.wsp.com/en-GL/legal/privacy-policy>, and MarramWinds' privacy policy and the Data Protection Act 2018 (including the EU General Data Protection Regulation).

**Thank you for taking the time to respond to our consultation.**

## 4.5 Online Q&A presentation



# Statutory Consultation

## Q&A



## Agenda

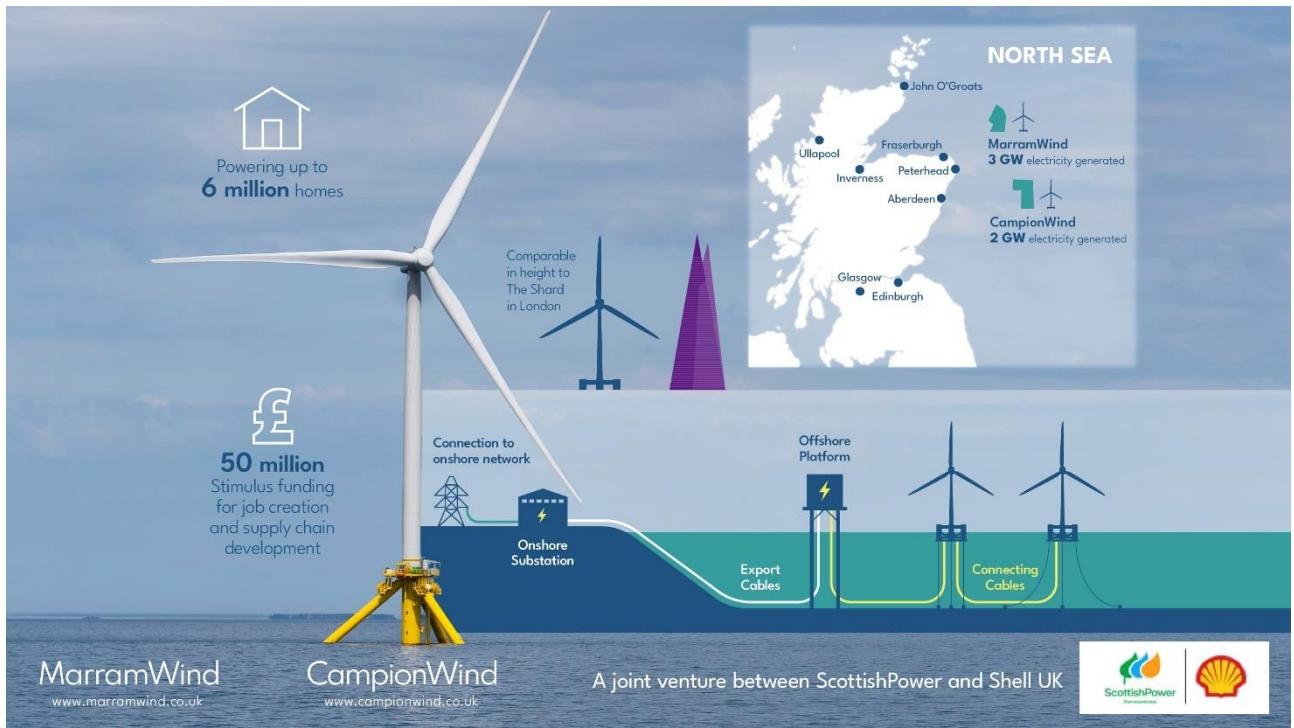
Timings	Content
18:00 – 18:05	<b>Introduction &amp; Welcome</b> Colin McFarlane, Senior Stakeholder Manager
18:05 – 18:10	<b>Project Overview</b> Richard Eakin, Project Director
18:10 – 18:20	<b>Developing MarramWind</b> Colin Anderson, Development Manager
18:25 – 18:40	<b>Supply Chain Development</b> Ian McDonald, Supply Chain Development Manager
18:40 – 19:00	<b>Q&amp;A</b>





# Project Overview

Richard Eakin, Project Director



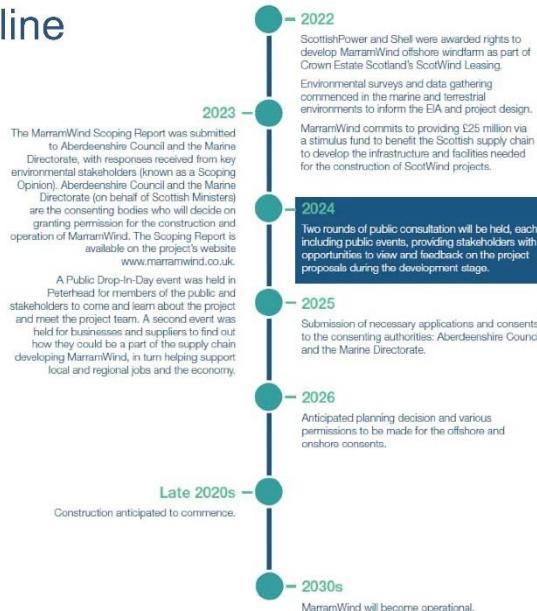


# Developing MarramWind

Colin Anderson, Development Manager

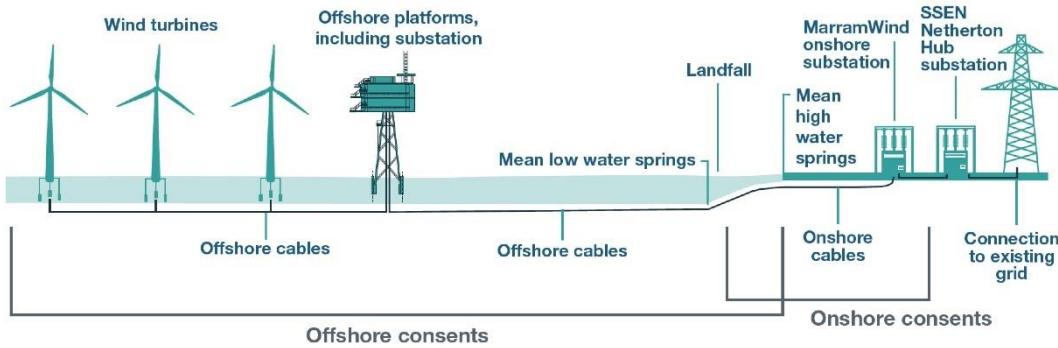


## Project Timeline



## Developing MarramWind

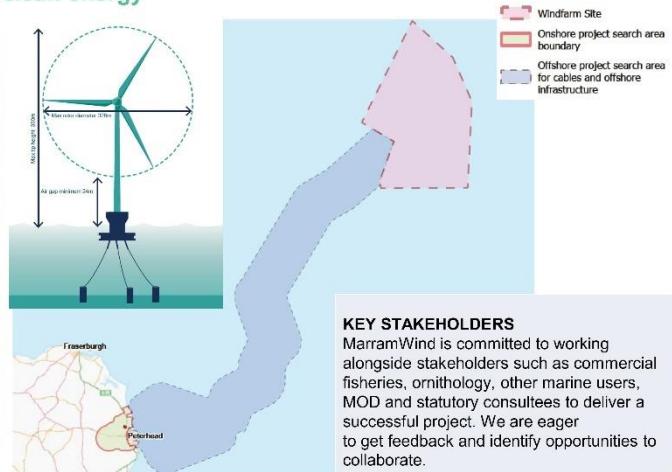
### The Consenting Process



## Offshore infrastructure

The windfarm expected to produce up to 3GW of clean energy

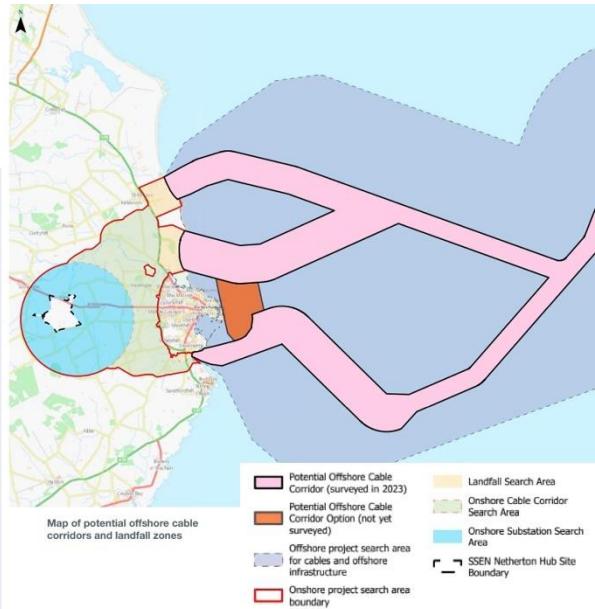
Key Characteristics	MarramWind
Turbine Size	15MW to 25MW
Number of turbines	126 to 225
Foundations, Mooring & Anchoring Systems, Turbine specifications	Floating structure held by catenary, taut line or semi taut mooring
Offshore infrastructure	Substations required to house equipment, number dependent on transmission tech use Accommodation platform also considered
Transmission tech cables	Either High Voltage Direct Current or Alternating Current (HVDC/HVAC)
Number of cables	Dependent on technology used
Offshore Export Cable Route Length	~110 km*



## Offshore infrastructure (ctd)

### Landfall and nearshore cable routing

- Potential landfall locations:
  - Scotstown Beach, south of St Fergus Gas Terminal and north of Peterhead
  - Lunderton, north of Peterhead
  - Sandford Bay, south of Peterhead
- In 2023 we completed surveys of the wind farm array and export cable corridor to gather data on seabed conditions and marine habitats.
- The data is currently being analysed and will help identify any local sensitivities, with further information being presented in the EIA.



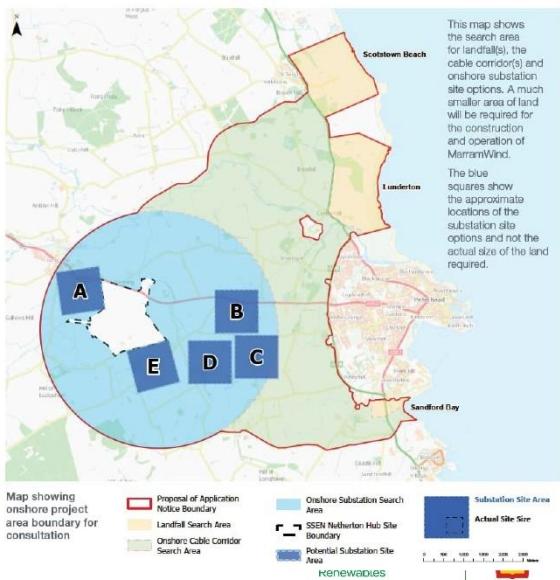
MarramWind



## Onshore infrastructure

### Landfall, Cable Corridor, and Onshore Substation

- The key onshore components include onshore cables that run from landfall to an onshore substation site.
- The onshore substation transforms the electricity generated by the offshore windfarm, so it is compatible for transmission to the wider national grid network
- From the onshore substation, electricity will be transmitted along underground cables and will connect into SSE's Netherton Hub
- Options for an onshore substation have been identified within a 3km search area from the Netherton Hub
- Displayed by boxes A – E in the figure on the right



MarramWind



# Supply Chain Development

Ian McDonald, Supply Chain Development Manager



## Supply Chain Development

Committing to significant investment in Scotland & the UK

As part of the ScotWind leasing, developers were asked to set our expectations and commitments to using the supply chain within a Supply Chain Development Statement (SDCS). MarramWind has made significant commitments to using Scotland-based companies, comprising **£4.6bn** of Scottish expenditure.

MarramWind has also committed to making **£25m** available via an **Offshore Wind Stimulus Fund (OWSF)** during project development, which will be used to support investment in supply chain infrastructure, facilities, innovation and upskilling.

We are also working with a range of organisations and groups, such as **SOWEC** (Scottish Offshore Wind Energy Council) & **NESA** (National Energy Skills Accelerator), to shape and coordinate our supply chain development activity so we **maximise our impact on the Scottish economy**, creating **jobs** and **investment** for local people and **businesses**.

MarramWind – Commitment Table*				
Project Stage	Scotland	rUK	EU	Elsewhere
Development	172.0	53.6	56.4	-
Manufacturing & Fabrication	3,137.8	1,012.1	3,890.5	1,031.0
Installation	201.7	230.4	421.1	-
Operation	1,148.4	95.0	63.4	-

\*Preliminary bid figures



## Supply Chain Partners

Over £100m invested to date, including circa £30m in supply chain contracts

### EIA:

- WSP – Lead EIA consultant



### Surveys:

- Fugro – Preliminary Geophysical/Geotechnical and Environmental surveys
- Geoquip – Soil and geotechnical data gathering
- APEM – Bird and Marine Mammal surveys
- ORDTEK – UXO Data Provision & Risk Assessment



### Consultants:

- Brown & May Marine – Fisheries Liaison Officer Services



## Supply Chain Priorities

Challenge and Opportunities for MarramWind

### Key considerations:

- Securing consent
- Securing grid connection
- Policy and regulatory certainty
- Floating wind technology development rate / predictability
- Wind turbine development rate
- Supply chain capacity
- Marshalling and assembly space
- Maximise local content while remaining competitive



## Supply Chain Portal

### Register your interest in being a supplier to MarramWind

We are keen to engage with supply-chain companies who can provide the goods and services we need to develop, build and operate MarramWind. Potential suppliers can register their interest via our website at:

<https://www.marramwind.co.uk/register-your-interest>

We will also seek to promote supply chain opportunities via groups and portals that include:

- **DeepWind Cluster:** <https://www.offshorewindscotland.org.uk/deepwind-cluster>
- **Forth & Tay Offshore Cluster:** <https://www.forthandtayoffshore.co.uk>
- **Scottish Renewables Supply Chain Forum:** <https://www.scottishrenewables.com/our-industry/supply-chain>
- **Energy Pathfinder:** <https://www.nstaauthority.co.uk/regulatory-information/supporting-the-supply-chain/pathfinder>



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## Q&A

- Submit questions via the Q&A function on Teams; or
- Email [stakeholder@marramwind.com](mailto:stakeholder@marramwind.com)





## Key activities

### Statutory consultation events

We held two public consultation events during the first consultation period, where we welcomed members of the local community and other stakeholders to meet our project team, learn more about the project, and ask questions.

The events took place on:

- Thursday 6 June, 1pm – 7pm, Palace Hotel, Prince St, Peterhead AB42 1PL
- Friday 7 June, 1pm – 7pm, Longside Parish Church Hall, 4-13 Inn Brae, Longside, Peterhead AB42 4XN

### Other ways to provide feedback

- Online, using the feedback form on our website [www.marramwind.co.uk](http://www.marramwind.co.uk)
- Email us your comments at [stakeholder@marramwind.com](mailto:stakeholder@marramwind.com)
- Fill in a feedback form via the Virtual Consultation Room on the MarramWind website, via hard copies at our two in-person consultation events or Peterhead Library.
- Write to us at FREEPOST MarramWind.

This consultation will run from **27 May 2024 to 11:59pm 1 July 2024**.

### Next steps

We will be hosting a second round of consultation later this year on a more refined project proposal, which you will have another opportunity to provide feedback on. At our second consultation, we will present details on how we have considered the feedback received as part of this consultation and how it has been used to develop MarramWind.



MarramWind 

 ScottishPower  
Renewables



MarramWind 

Thank you

 ScottishPower  
Renewables



## 4.6 Full analysis of feedback

### 4.6.1 Offshore

Question 1: In the context of addressing climate change, do you believe offshore wind farms are an important part of the solution?

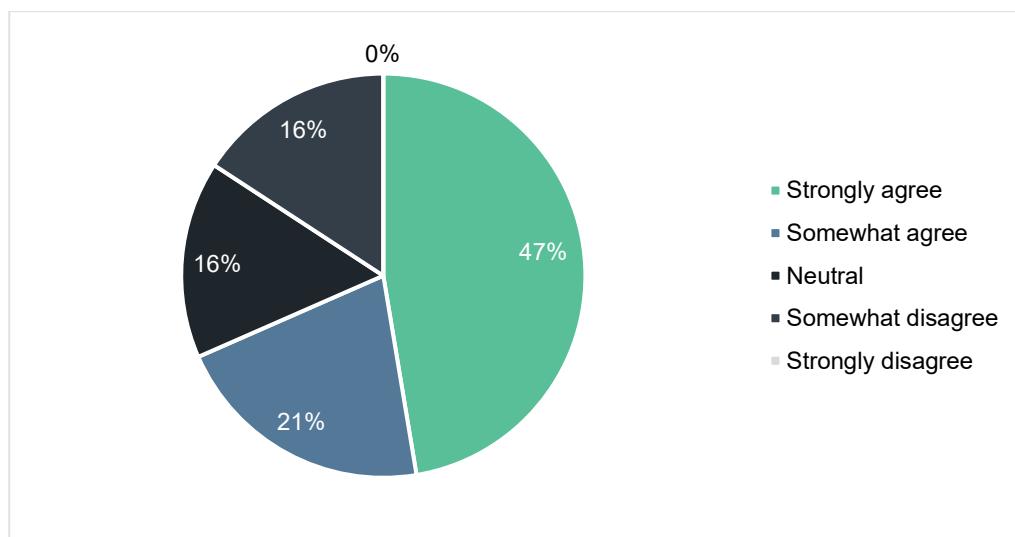
19 respondents answered this question.

68% of respondents broadly in favour (nine (47%) strongly agree and four (21%) somewhat agree).

16% of (three) respondents selected somewhat disagree, but no respondents strongly disagreed.

Three respondents (16%) were neutral.

#### Plate 4.1 Statutory Consultation 1 - Q1



Question 2: Please rank from 1 – 6 which of the following aspects of the offshore elements of MarramWind are of most interest to you.

19 respondents answered this question.

The cable corridors to landfall was of greatest interest to respondents.

Similar levels of interest were identified in the wind farm site, the construction method / duration (19% each) and operational phase and lifespan and offshore platforms and substations (16% each).

Respondents indicated decommissioning to be of least interest, with 7% of responses.

**Table 4.1 Statutory Consultation 1 - Q2**

Rank	Element	Weighted percentage
1	Cable corridor(s) to landfall(s)	24%
2	Wind farm site	19%
3	Construction methods and duration	19%
4	Operational phase and lifespan	16%
5	Offshore platforms and substations	16%
6	Decommissioning	7%

Percentages do not total 100% due to rounding.

**Question 3: Regarding the proposed offshore aspects of the project, please select your top 3 from the following topics that are most important to you and provide any additional thoughts you would like MarramWind to consider below as we develop our proposals.**

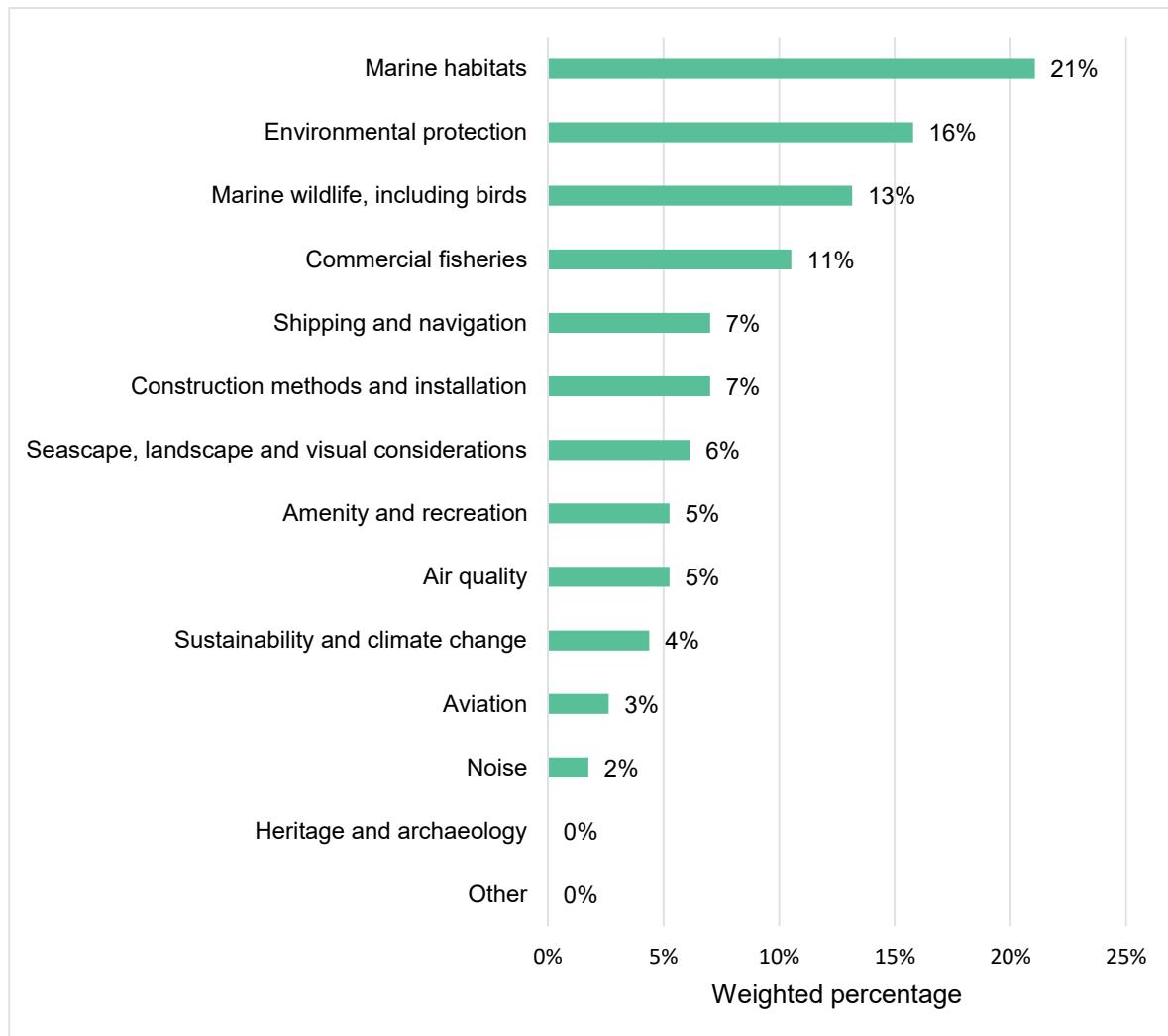
19 respondents answered this question.

Marine habitats was considered most important with 21% of the total number of selections.

The second and third most important topics were environmental protection and marine wildlife, including birds, which received 16% and 13% of the selections respectively.

Commercial fisheries received 11% of the total number of selections and shipping and navigation received 7%.

## Plate 4.2 Statutory Consultation 1 - Q3



Question 4: In relation to the proposed offshore infrastructure (such as the wind farm site, offshore platforms and offshore cable corridor), please use the box below to share with us anything you believe we should be considering in our assessments or project design”.

Through analysis of the six free-text responses to this question, nine key themes emerged.

The Applicant found that impacts on marine habitats were of most concern (two mentions), with calls to minimise disruption to marine wildlife and ensure positive long-term effects on local flora and fauna.

Respondents also expressed concerns about the visual impact from key viewpoints (one mention) and requested efforts to leave the seascape better than before MarramWind (one mention).

Other feedback included conducting pre- and post-installation surveys on local marine life, such as brown crabs and lobsters (one mention), and inquiries about the burial depth of the cable and the origin of construction materials (one mention).

One comment requested information on the proposed construction partners for the project and enquired whether they would be local or outsourced (one mention).

**Table 4.2 Statutory Consultation 1 - Q4**

<b>Code</b>	<b>Frequency</b>
<b>Impacts from wind farm on marine habitats</b>	2
<b>Impacts from wind farm on marine wildlife</b>	1
<b>Impacts from wind farm on landscape/visual</b>	1
<b>Recommendation for mitigation for EIA/HRA</b>	1
<b>Concern about disruption from construction</b>	1
<b>General comment about the operation (including length of time)</b>	1
<b>Recommendation for benefits and opportunities</b>	1
<b>Recommendation for enhancing seascape</b>	1
<b>Request for information</b>	1

## 4.6.2 Landfall

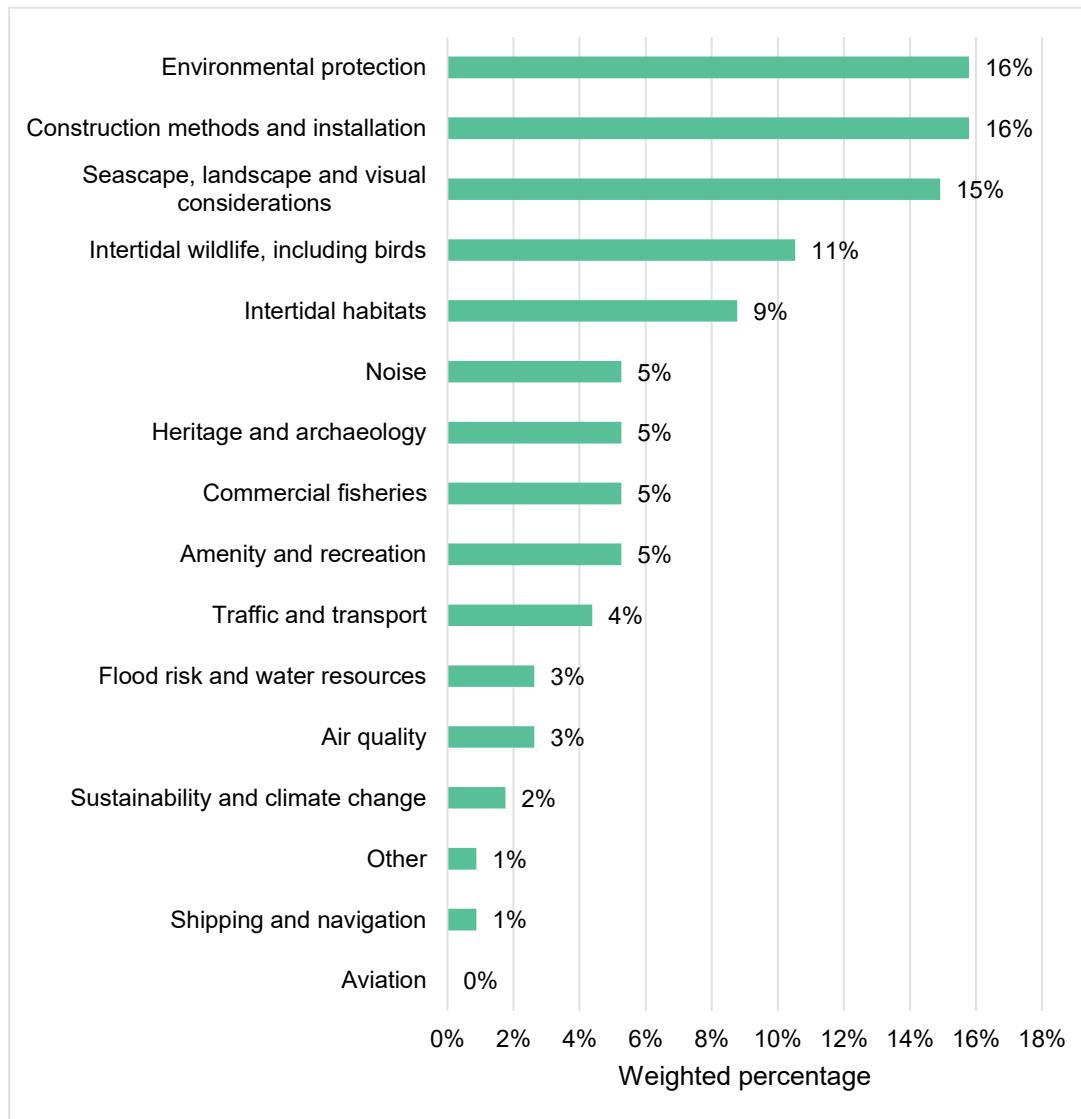
**Question 5:** Landfall is the point at which the cables transferring power from an offshore wind farm reach the shore. Regarding the proposed landfall(s), please select your top 3 from the following topics which are most important to you and provide any additional thoughts you would like MarramWind to consider below as we develop our proposals.

Through analysis of the weighted percentages, the Applicant found that the top two most important topics were environmental protection and the construction method and installation, each receiving 16% of the selections respectively.

Furthermore, seascape, landscape and visual considerations ranked as the third most important element with 15% of the selections.

One respondent selected “other” and explained that the “destruction of the countryside and massive inconvenience from the construction” were key concerns for them.

### Plate 4.3 Statutory Consultation 1 – Q5



**3Question 6: Regarding the proposed landfall(s), please share with us anything you believe we should be considering in our assessments or project design.**

A total of nine respondents provided an answer to this question and the effects on marine habitats were noted by two of the comments, with calls to minimise disruption and improve environmental conditions, such as enhancing biodiversity and protecting local habitats.

Additionally, the idea of shared cable corridors between developers was suggested to reduce the overall impact of construction (two mentions).

There was a suggestion to mitigate disruption during construction by preparing for any future extensions at this stage (one mention), with recommendations to also use brownfield sites rather than disturbing countryside areas (one mention).

One comment outlined frustration with the lack of a comprehensive project overview, mentioning the cumulative effects of multiple developers proposing infrastructure that could permanently alter the landscape (one mention).

Respondents also recommended that substations be designed with sensitivity to their surroundings and kept as low-profile as possible (one mention).

**Table 4.3 Statutory Consultation 1 - Q6**

Code	Frequency
<b>Impacts from wind farm on marine habitats</b>	2
<b>Recommendation to share cable corridors with other projects</b>	2
<b>Concern (general) to project</b>	1
<b>Impacts on landscape</b>	1
<b>Impacts on health</b>	1
<b>Impacts from wind farm on landscape/visual</b>	1
<b>Concern about future extensions/enlargement of MarramWind</b>	1
<b>Concern about the impacts on the environment (general)</b>	1
<b>Impacts on communities (including recreation)</b>	1
<b>Recommendation for mitigation for substation site</b>	1
<b>Concern about construction (general)</b>	1
<b>Concern about disruption from construction</b>	1
<b>Recommendation for enhancing habitats and biodiversity</b>	1
<b>Dissatisfied with the information presented</b>	1
<b>Concern about collaborative effects from projects</b>	1
<b>Impacts from MarramWind on other projects</b>	1

### 4.6.3 Onshore

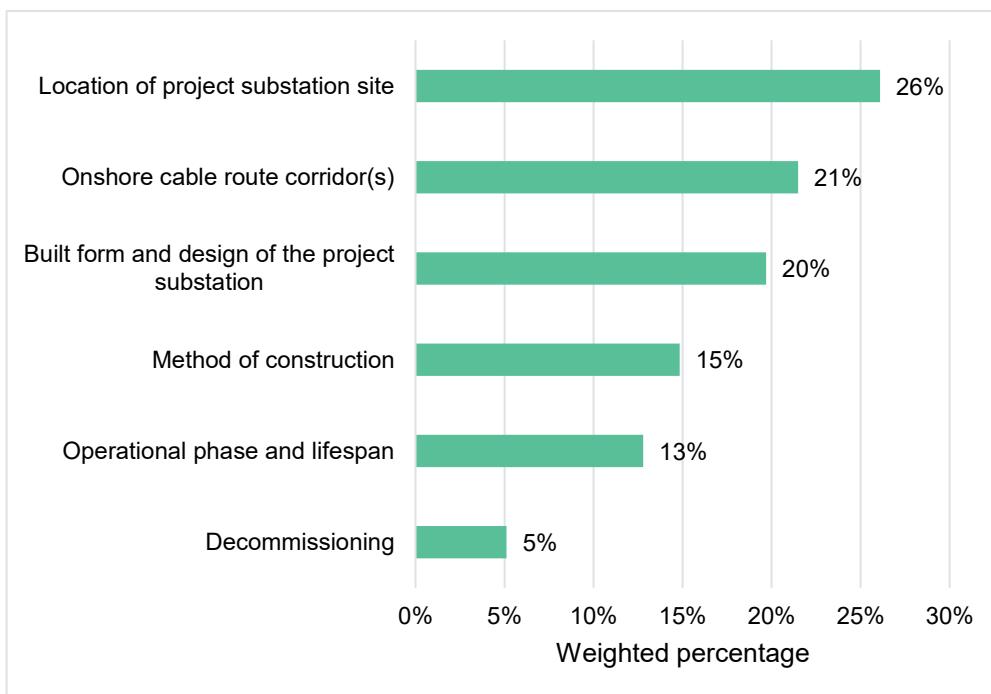
**Question 7:** Please rank from 1 – 6 which of the following aspects of the onshore elements of MarramWind Offshore Wind Farm are of most interest to you, 1 being of most interest and 6 being of lesser interest.

Through analysis of the weighted percentages, the Applicant found that the element that was of most interest to respondents was the location of the project substation site, which received 26% of the selections.

Furthermore, the topic that received the second-highest overall ranking was the onshore cable route corridor, which was indicated to be of significant interest by 21% of the respondents.

The built form and design of the project substation received the third highest overall ranking with 20% of the selections. Additionally, the method of construction and operational phase and lifespan received 15% and 13% of the selections, respectively. Decommissioning received the lowest overall ranking, with 5% of the selections.

#### Plate 4.4 Statutory Consultation 1 - Q7



Percentages do not total 100% due to rounding.

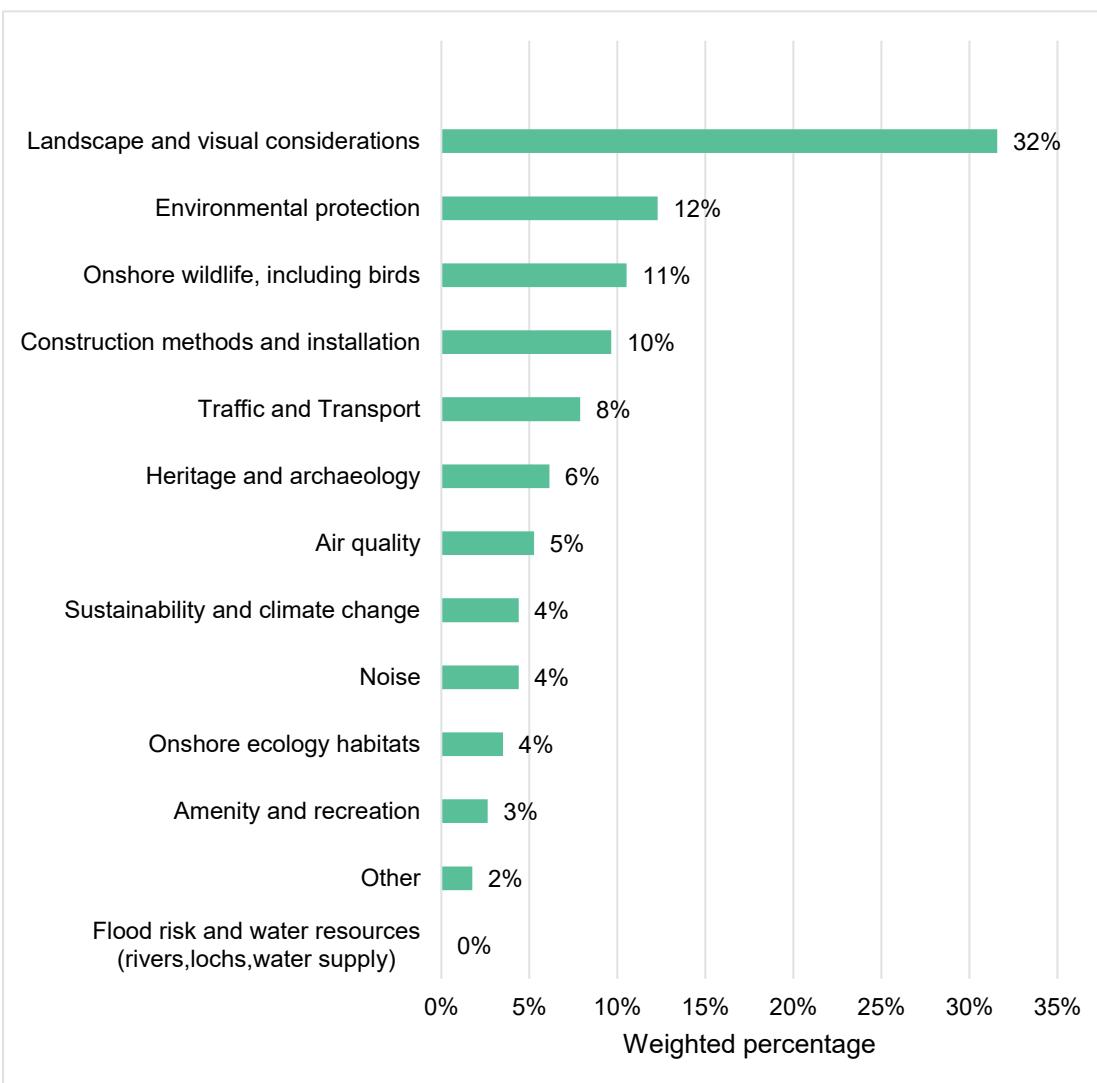
**Question 8:** Please select your top 3 from the following topics which are most important to you and provide any additional thoughts you would like MarramWind to consider below as we develop our proposals.

Through analysis of the weighted percentages, the Applicant found that the most important topic to respondents was landscape and visual considerations which received the highest overall ranking with 32% of all selections.

Furthermore, environmental protection received the second-highest overall ranking with 12% of the selections. Onshore wildlife, including birds as well as construction methods and installations, received the third and fourth highest overall rankings receiving 10% and 11% of the selections, respectively.

Respondents who selected “other” for this question could also provide a free text response explaining why. Responses included noise during construction and operation, impact on house prices, and effect on habitats.

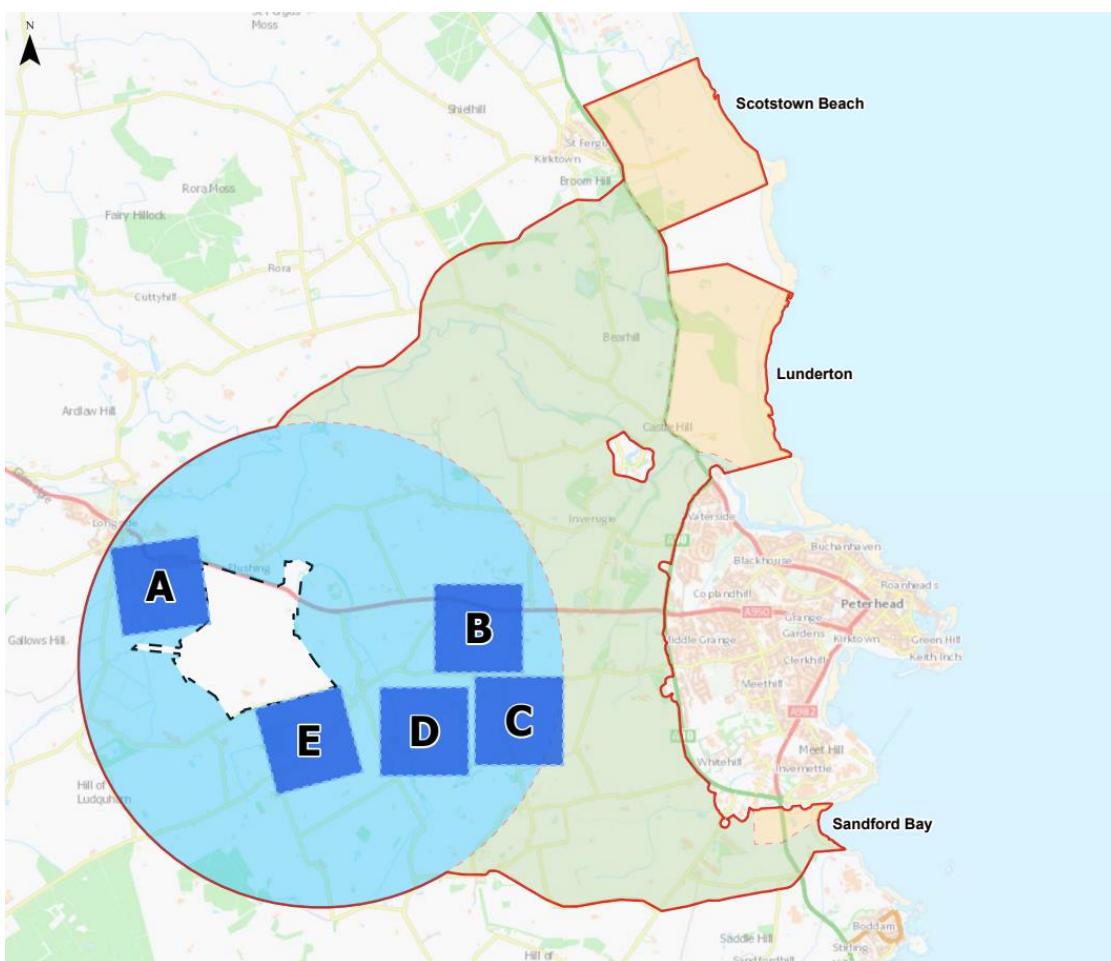
### Plate 4.5 Statutory Consultation 1 - Q8



Percentages do not total 100% due to rounding.

Question 9: In relation to the proposed onshore infrastructure (such as onshore cable corridor and substation site options), please share with us anything you believe we should be considering in our assessments or project design. We have labelled the substation site options (A, B, C, D and E) in the consultation materials if you need to refer to a specific site in your response.

#### Plate 4.6 Map showing substation site options



Analysis of the 14 responses to this question revealed a strong preference for site D as the most suitable location for the substation, primarily due to its remoteness, screening, and minimal impact on the surrounding communities.

A significant number of comments (10 mentions) emphasised that site D offers sufficient access while ensuring that the substation would be largely hidden from view by the surrounding landscape and trees. This location was also favoured for its ability to minimise disruption to local traffic and for the fact that it is situated far from residential areas, allowing it to remain largely out of sight from Longside, Peterhead, and other communities.

Additionally, the feedback suggests a desire for the project to not only minimise disruption but also leave the area better than it was. For example, respondents advocated for ensuring that land disturbed by construction would be restored in a way that would provide positive effects on the local flora and fauna, potentially making the landscape significantly more biodiverse and ecologically healthy than before the project (one mention).

Concerns regarding potential environmental impacts were raised, with one respondent warning about the risk of damage to water courses and drinking water sources (one mention).

There was also some commentary on the potential challenges that may arise with future expansions or extensions of the project. Respondents expressed a desire for the project to consider not only its current scope, but also the long-term impacts of any future developments (one mention).

In contrast, site A received opposition, particularly due to its proximity to Longside village. One respondent voiced concerns that site A would have a negative visual effect on the village and its surroundings, which is especially important as the village is often referred to as "leafy Longside" due to its pleasant aesthetic. The feedback also included suggestions for better coordination among developers, with one respondent advocating for all companies involved to work together to bury cables in a single corridor, which would reduce the overall environmental footprint (one mention).

Lastly, one comment expressed frustration with the consultation process and engagement efforts. It suggested that the project team could improve its communication, particularly with residents, and ensure that any information about the development is well-promoted and widely distributed).

**Table 4.4 Statutory Consultation 1 - Q9**

Code	Frequency
<b>Support for substation site D</b>	10
<b>Recommendation for enhancing habitats and biodiversity</b>	2
<b>Impacts on flooding</b>	1
<b>Impacts on water environments</b>	1
<b>Impacts on health</b>	1
<b>Impacts from wind farm on marine wildlife</b>	1
<b>Impacts from wind farm on marine habitats</b>	1
<b>Objection to substation site A</b>	1
<b>Concern (general) to substation site A</b>	1
<b>Impacts from substation A on communities</b>	1
<b>Impacts from substation A on landscape</b>	1
<b>Recommendation for benefits and opportunities</b>	1
<b>Recommendation for enhancing landscape onshore</b>	1
<b>Dissatisfied with engagement</b>	1

#### 4.6.4 Benefits and Opportunities

Question 10: Regarding the proposed project as a whole, please rank from 1 – 5 the following opportunities you think MarramWind should focus on to make a positive difference, 1 being of most importance (top) and 5 being of lesser importance (bottom).

Through analysis of the weighted percentages, the Applicant found that the opportunity that was most important to the respondents was the development of a Community Benefit Fund.

This opportunity received the highest overall ranking with 27% of the total number of selections. Furthermore, the creation of jobs and skills in the area received the second-highest overall ranking with 25% of the total number of selections.

Enhancing ecology, wildlife, and the landscape received 18% of the total number of selections, while supply chain engagement and procurement received 16% of the total number of selections.

The opportunity that received the lowest priority from respondents was sustainability, with 14% of the total number of selections.

**Table 4.5 Statutory Consultation 1 - Q10**

Priority	Opportunity	Weighted percentage
1	A Community Benefit Fund for community projects and groups	27%
2	Jobs and skills creation	25%
3	Enhancing ecology, wildlife and the landscape	18%
4	Supply chain engagement and procurement	16%
5	Sustainability	14%

Question 11: Please add any other ideas you have for MarramWind to leave a positive legacy.

Of the seven responses to this question, three emphasised the need for tangible community benefits, such as leaving a natural legacy by creating diverse habitats, planting trees to encourage wildlife, and establishing quiet areas with paths for both people and nature (three mentions). Furthermore, one comment suggested creating a community benefit fund supported by a fee per megawatt produced, with the interest used to support local communities, particularly those most affected by the project (one mention).

Additionally, two comments (two mentions) recommended focusing on education and skills development for young people, including creating scholarships for local high schools and organising trips to inspire students interested in renewable energy careers. One comment suggested organising site visits for locals and schools to foster community engagement and understanding (one mention). Other suggestions included ensuring remuneration or compensation for disruption (one mention) through measures such as cheaper electricity and infrastructure upgrades, and providing electricity discounts for affected communities (one mention).

Concerns raised included objections to the project (one mention) and the general impact of construction (one mention), with one respondent expressing frustration about the perceived

inconvenience and disruption caused by the development. Another respondent called for opportunities to enhance habitats and biodiversity, such as through sympathetic tree planting to benefit local flora and fauna (one mention).

**Table 4.6 Statutory Consultation 1 - Q11**

<b>Code</b>	<b>Frequency</b>
<b>Recommendation for benefits and opportunities</b>	3
<b>Recommendation for education/skills development for young people</b>	2
<b>Objection to project</b>	1
<b>Concern about construction (general)</b>	1
<b>Support for benefits and opportunities</b>	1
<b>Recommendation for site visits for local people/schools</b>	1
<b>Recommendation for enhancing habitats and biodiversity</b>	1
<b>Recommendation for remuneration/compensation for disruption</b>	1
<b>Recommendation for electricity discount</b>	1

## 4.6.5 Understanding of the project

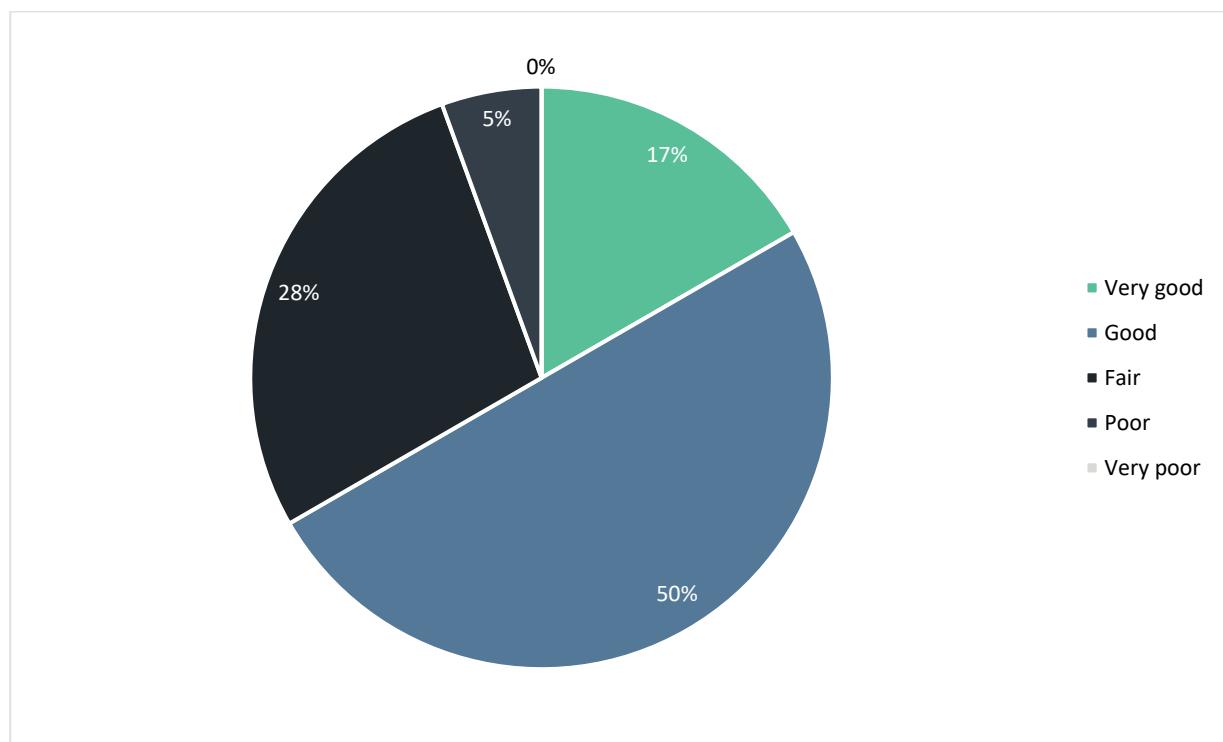
Question 12: Based on the information presented in this consultation, how would you describe your understanding of the MarramWind Project at this early stage of its development?

A total of three respondents (17%) rated their understanding as very good and nine (50%) as good.

Additionally, five respondents (28%) highlighted they had a fair understanding of the project.

On the other hand, one individual (6%) Reported a poor understanding, and no respondents selected very poor.

**Plate 4.7 Statutory Consultation 1 - Q12**



## 4.6.6 7About you

### Question 13: How did you hear about the MarramWind Offshore Wind farm consultation?".

A total of 19 respondents provided an answer to this question.

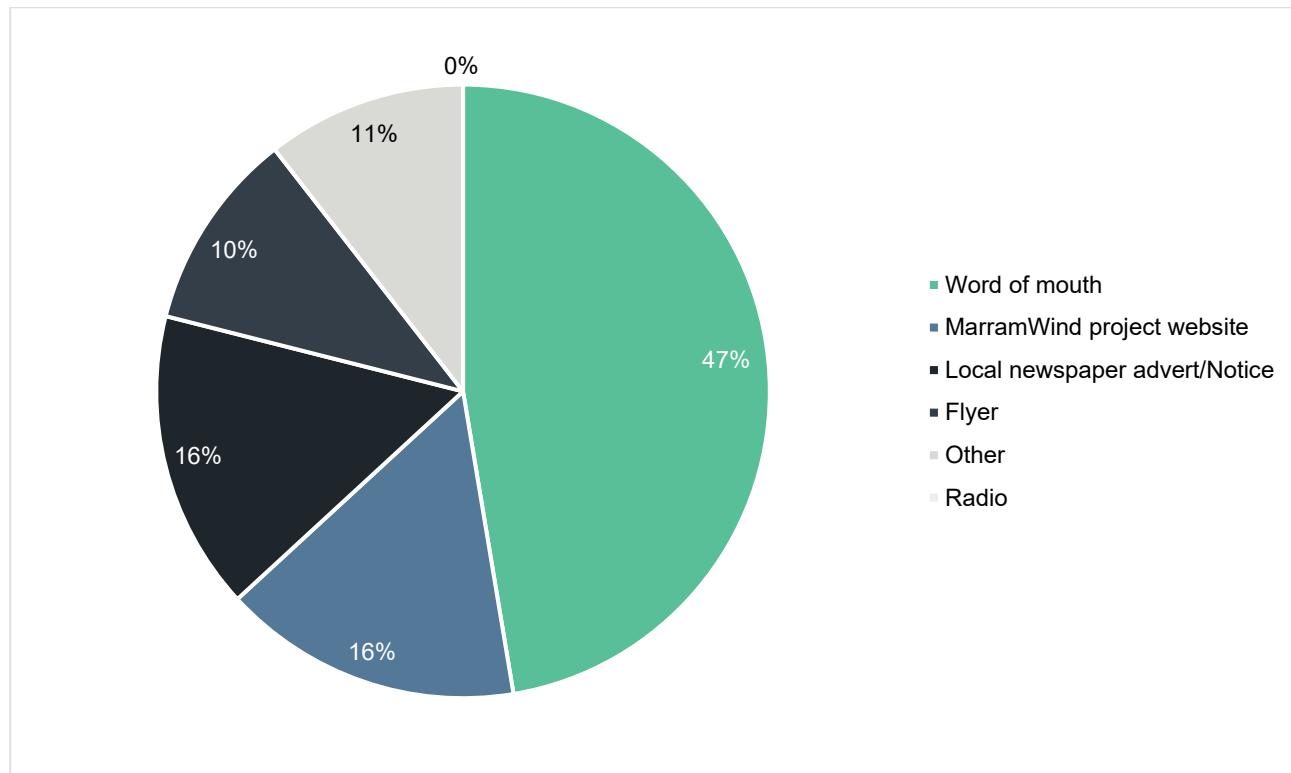
Most respondents heard about the consultation through word of mouth, which was selected by nine respondents (47%).

Three respondents (16%) heard about the consultation through the MarramWind project website.

Additionally, another three respondents (16%) heard through the local newspaper advert/notice and two respondents (11%) heard through a flyer.

Two respondents (11%) selected “other” and indicated that they heard through an email from Brown & May Marine Ltd, the commercial fisheries liaison consultant for the project. No respondents selected Radio.

**Plate 4.8: Statutory Consultation 1 - Q13**

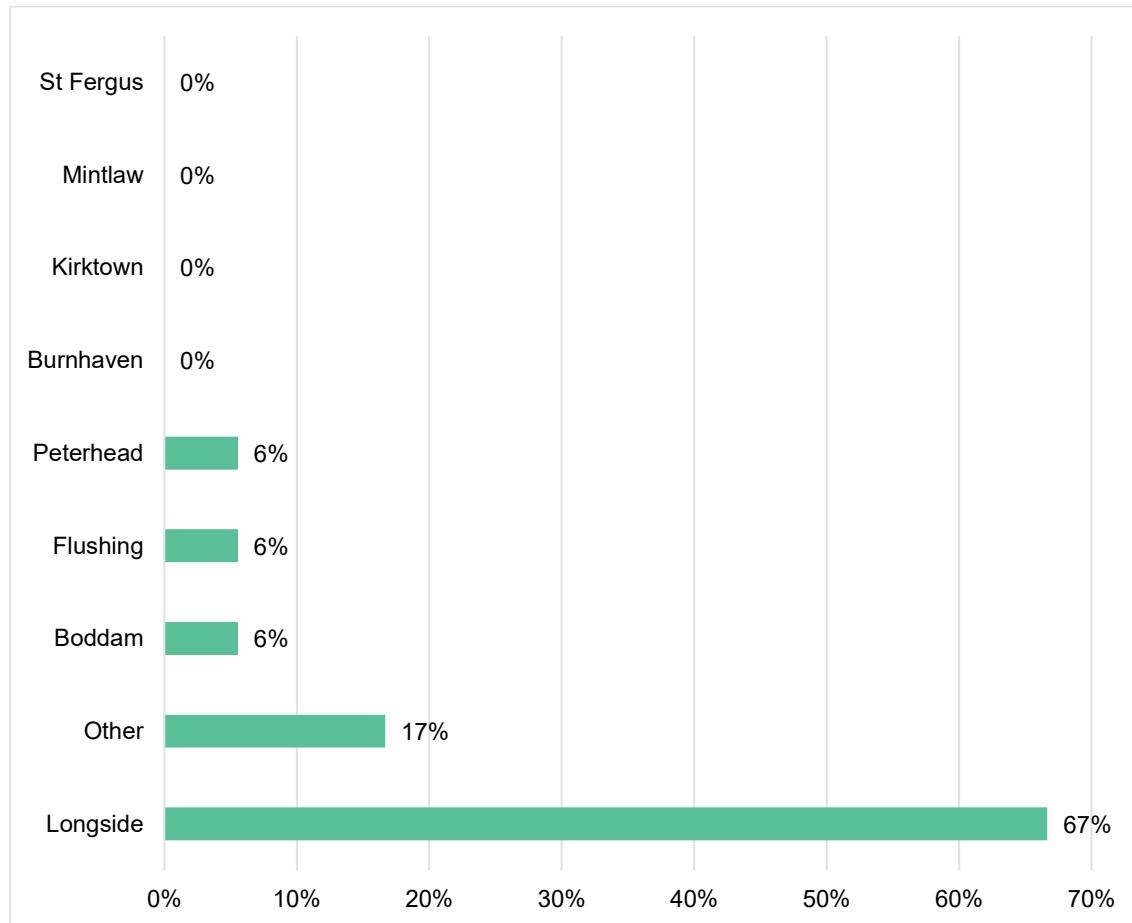


### Question 14: Where do you live?

The analysis showed that the majority of respondents (12 responses, 7%) lived in Longside, but there was one person from Boddam, Flushing and Peterhead respectively (6% each).

Three respondents (17%) selected “other” and indicated via a follow-up question that they lived in Strichen, Toddlehill and Glendaveny, respectively.

### Plate 4.9 Statutory Consultation 1 - Q14



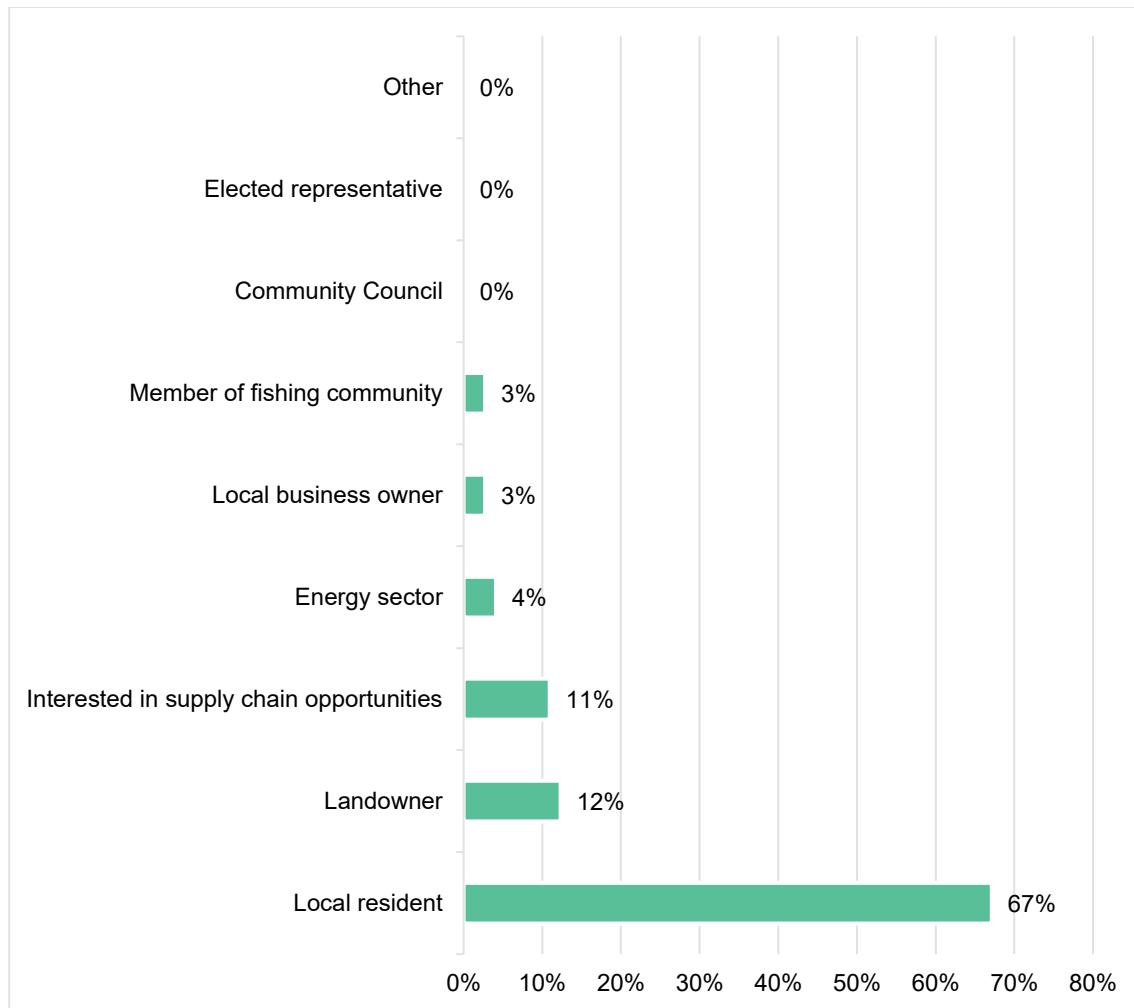
**Question 15: Please tick the following, as appropriate to your status.**

19 respondents answered this question, with the ability to select multiple options. As a result, 73 selections were made, and the percentages presented are based on this total.

The majority of respondents, 17 individuals (67%), identified as local residents, making this the most frequently chosen category.

Additionally, the second and third most common choices showed that 12% of respondents were landowners, while 11% expressed interest in supply chain opportunities. Furthermore, 4% of the total selections reflected an interest in the energy sector.

Lastly, local business owners and members of the fishing community each accounted for 3% of the total responses.

**Plate 4.10 Statutory Consultation 1 - Q15**

## 4.7 Applicant's Response to feedback

Topic	Nature of comment	The Applicant's response
<b>Planning for the future</b>	MarramWind should consider future projects during construction and potential extensions to the windfarm to minimise disruption.	<p>We are committed to minimising disruption and planning for the long-term, and it is important to balance this with the practicalities of the current project. Building out the onshore substation to accommodate a potential, but currently undefined, future expansion of the windfarm presents significant challenges. It could lead to unnecessary upfront costs and environmental effects, without a guarantee that such an expansion will ever occur. We will, however, design the onshore substation with flexibility in mind, within the constraints of the site, to allow for potential upgrades or modifications in the future. We also remain committed to engaging with stakeholders and communities throughout the project's lifecycle and will keep potential future developments in consideration as we progress. In the offshore environment, the MarramWind wind turbine site is 684 km<sup>2</sup>, which is large enough to accommodate up to 3GW of wind turbine capacity. We are seeking consent to optimise this capacity and the EIA process looks at the maximum effect that MarramWind could have. Given other seabed users in the vicinity and the limits of the lease and grid, it is highly unlikely we would seek to extend MarramWind beyond its current boundaries.</p>
<b>Working with other developers</b>	Consider sharing cable corridors with other developers at landfall	<p>We are actively engaged in collaborative discussions with other developers through the Peterhead Developers Forum. This allows us to exchange information and explore opportunities for cooperation. We are committed to open communication and will continue to work with other developers to identify potential synergies and optimise the project infrastructure development process while ensuring the technical viability and integrity of each project.</p> <p>We acknowledge the potential benefits of sharing cable corridors with other developers, but it presents significant challenges due to varying timelines and technical requirements, e.g. subsea cables require adequate spacing for operational maintenance and there are also regulatory restrictions that can impose cable separation requirements</p>

Topic	Nature of comment	The Applicant's response
	Request for greater collaboration between developers delivering local energy projects to work together and understand interfaces between projects.	<p>Through the Peterhead Developers Forum, we continue to meet regularly with other energy developers in the area to discuss current plans and consider opportunities where we can work together as a collective to coordinate development.</p> <p>Due to a variety of factors, the pace at which each energy development progresses differs from project to project, and this poses significant challenges to coordination. However, some energy projects' plans in the Peterhead area are becoming more defined as they progress through the development phase. Where potential overlaps in proposed infrastructure are emerging, we are initiating discussions with these developers so that plans are taken forward sensitively and to ensure potential impacts on the surrounding communities and environment are minimised as much as possible.</p>
<b>Your key landfall concerns</b>	<p>The key topics stakeholders highlighted that MarramWind should consider in selecting a landfall are:</p> <ul style="list-style-type: none"> <li>• Seascapes, landscape and visual considerations</li> <li>• Environmental protection</li> <li>• Construction methods and installation</li> <li>• Intertidal wildlife, including birds</li> </ul>	<p>Seascapes, landscape and visual considerations are extremely important; the effects from the project on these is to be minimised where possible. Scotstown Beach and Lunderton are located within the North-east Aberdeenshire Coast Special Landscape Area. However, the lasting visual effect of the project at landfall will be negligible, as the onshore and offshore cables and transition joint bays (where the two cable types meet) will be underground and the ground above them reinstated. Sandford Bay is partially within the Buchan Ness to Collieston Coast Special Protection Area. This has been a major factor in the decision to exclude Sandford Bay. All sites are considered relatively challenging for construction and installation. However, Sandford Bay is considered the weakest option in this regard.</p>
<b>Cable effects on rural areas</b>	Concern was raised about the effect of onshore cable routes on rural areas such as Longside.	<p>The onshore cables will be installed underground, no pylons will be required and overhead lines. The temporary construction footprint will be kept to a minimum and on completion of cable installation, the haul road and any construction compounds will be removed, and the cable corridor will be reinstated.</p>

Topic	Nature of comment	The Applicant's response
Substation design	The substation should be built as low as possible and be sympathetic to its surroundings	The minimisation of landscape and visual effects is being pursued through various mitigation techniques involving landscape and architectural strategies. Ensuring that the development components are minimised will be a key approach.
Your key onshore concerns	<p>The key topics stakeholders highlighted that MarramWind should consider in siting onshore infrastructure are:</p> <ul style="list-style-type: none"> <li>• Landscape and visual considerations</li> <li>• Environmental protection</li> <li>• Construction methods and installation</li> <li>• Traffic and transport</li> </ul>	<p>An assessment was undertaken that incorporated, amongst others, the environmental topics listed as key aspects by stakeholders during our first round of statutory consultation. The two preferred onshore substation sites, B and C, are the best performing sites in all of the categories (as well as the best performing sites overall). Under the key themes identified by stakeholders, options B and C were considered the best performing sites over the other site options, as detailed below:</p> <p><b>Landscape and visual considerations</b> :The locations of Options B and C minimise the number of properties in proximity to the sites, in addition, because of the range of development and industrial influences along the A950 corridor they offer a better fit with the existing landscape and visual context than is found at any of the other site options. Furthermore, the sites offer the best potential for screening views of the substation.</p> <p><b>Environmental protection</b></p> <p>Options B and C have both been assessed to have a limited potential to effect protected species and habitats and provide the best opportunities for enhancing surrounding habitats and increasing their ecological value.</p> <p><b>Construction methods and installation</b></p> <p>Both options B and C provide sufficient space for the construction of the substation, with the sites both having suitable ground conditions and topography. Due to their location, the distance over which the onshore cables need to be installed is also kept to a minimum.</p> <p><b>Traffic and transport</b></p> <p>Options B and C and have good access for construction traffic, with Option B located adjacent to the A950 and Option C only a short distance from the A90 via local roads. The sites are located further to the</p>

Topic	Nature of comment	The Applicant's response
		east and therefore closer to the A90, reducing the distance construction traffic will be required to travel on the local road network from the A90.
<b>Health considerations</b>	Concern was raised about the effect of Substation Site D on health for those that live in Blackhills.	Substation Site D has been discounted with substation options B and C now being taken forward for further assessment to identify a preferred onshore substation that provides sufficient space for its construction and operation. The project substation will be constructed and operated in accordance with relevant health and safety legislation and consequently to avoid significant adverse effects on human health.
	Concern about the effect of living within a large industrial area on health and wellbeing.	We are making every effort to ensure that the onshore infrastructure is designed, constructed and operated sensitively, minimising any potential effects on health and wellbeing. In addition, we are exploring opportunities to improve and encourage, for example, biodiversity and strengthen existing nature networks with associated benefits for wellbeing.
<b>Protecting and enhancing marine environment</b>	The importance of protecting and respecting marine life and habitats. Disturbed areas should be left in a better condition than before.	MarramWind is developing a Nature Positive Plan (NPP) that sets out how we intend to measure, monitor and enhance biodiversity. This will enable the project to achieve its biodiversity targets and meet the biodiversity requirements. The NPP will be submitted as part of our applications and therefore commitments will be secured through the consenting process in the same way as any mitigation and compensation measures
<b>Surveying crabs and lobsters</b>	A request was made for a survey on brown crabs and lobsters before and after the offshore cable is installed.	To inform the EIA, a survey of marine life on the seabed was undertaken in 2023 across the wind turbine site and along the offshore cable corridor. Burrows characteristic of the Norway lobster were identified. The survey did not identify brown crab or European lobster. However, this does not indicate these species are not present so we are working with commercial fisheries to understand marine areas, particularly in the nearshore environment that are targeted for these species. Any potential requirement to undertake species-specific surveys at the pre-construction or post-construction stage of the project will be subject to advice from the Marine Directorate and NatureScot and consent conditions.

Topic	Nature of comment	The Applicant's response
<b>Landscape and visual considerations</b>	Concern was raised about the visual effects from key viewpoints.	The wind turbines will be located a minimum of 75km offshore. Even with their maximum blade tip height of up to 354m, on a clear day they will be barely visible on the horizon due to the limit of the naked eye and the curvature of the Earth. With cloud cover, this visibility will be even further reduced.
	Concern was raised that substation sites C, D and E are too remote and rural – a large substation in those locations would greatly exceed that of agricultural vernacular and would therefore be an eyesore in the local landscape.	<p>Substation options D and E have a 'remote' character being some distance from the A950 corridor, within a rural setting, away from other development. Part of option E contains areas of woodland and option D is located between the wooded river corridors and valleys of East Den and West Den that would be less able to accommodate the substation. However, options D and E are not being taken forward.</p> <p>The northern part of substation site C is closer to the urban influences of Peterhead and the A950 indicating some reduced sensitivity. It is also however acknowledged that the southern part of substation option C (around the Hillhead of Cocklaw) is elevated and visible from a wide area.</p>
<b>Protecting and enhancing marine environment</b>	Leave local habitats, flora, fauna and landscapes in a better condition than they currently are to encourage greater biodiversity.	An ecological desk study and a programme of baseline surveys for habitats, protected species and birds have been undertaken across a two-year period, helping to avoid and where necessary mitigate effects to features of biodiversity and conservation, as well as identifying opportunities for ecological enhancement. These enhancement opportunities will be used to inform the development of MarramWind's NPP, which will identify a suite of measures to improve and encourage biodiversity and strengthen existing nature networks.
<b>Onshore water environment considerations</b>	Concern about the damage to drinking water taken from wells.	We have identified private water supplies (including springs and wells) based on information from Aberdeenshire Council and questionnaires completed by water supply owners. This information is being taken into consideration during the ongoing site selection process to help minimise any potential effects. The project will also comply with industry good practice for pollution.
	Concern about field drainage and damage to water courses	Care will be taken to ensure that existing field drainage regimes are not affected by the project, and field drainage systems will be maintained during construction and reinstated on completion. We have made

Topic	Nature of comment	The Applicant's response
		such commitments as part of environmental mitigation measures and will continue to do so as part of our ongoing water environment assessments.
<b>Traffic and transport considerations</b>	Preference for substation site D as it has good access to transport and will keep traffic out of local villages. However, there was also concern about the effect of Site D on its effect on local traffic in Blackhills.	<p>Substation option D has now been discounted, with options B and C instead identified as potential sites to accommodate the onshore substation.</p> <p>Site B has been chosen as it is located adjacent to the A950, which in turn can be accessed from the A90 via the Howe of Buchan Roundabout. The A950 passes through a generally rural area, is of a good standard and is considered able to accommodate construction traffic.</p> <p>Site C is located adjacent to the unclassified road which links the A90 with Kinmundy. The road is rural in nature, supports two-way operation and interchanges with the A90 via a large priority junction. The form of the unclassified road is considered able to accommodate the construction traffic.</p> <p>Both sites are located within 3km of the A90 which forms part of the trunk road network and provides a bypass around Peterhead. The location of the sites will support an access strategy which promotes access from the east to minimise the temporary effect of construction traffic on local communities including Blackhills.</p>
	Concern about the inconvenience caused by construction.	<p>A detailed Construction Traffic Management Plan will be prepared in consultation with Aberdeenshire Council, with this supporting the implementation of measures to mitigate the temporary effects from construction traffic, particularly during the morning and evening peak periods. Measures will include:</p> <ul style="list-style-type: none"> <li>• specifying acceptable construction traffic access routes,</li> <li>• identifying any times HGV deliveries will be required to avoid,</li> <li>• management of deliveries via a booking system to avoid vehicles arriving in convoy,</li> <li>• providing a suitably sized storage area onsite to support the stockpiling of materials and reducing the number of deliveries, where possible,</li> <li>• providing access arrangements to minimise vehicle delays; and</li> <li>• car sharing to reduce employee vehicles.</li> </ul>

Topic	Nature of comment	The Applicant's response
<b>Noise effects</b>	Concern about the noise from the finished substations on local house prices and the quality of life for local residents.	<p>A noise and vibration assessment will be prepared to accompany the EIA and will consider the potential noise and vibration effects associated with the construction and operational phases of MarramWind. The assessment will draw on the results of background noise surveys carried out at sensitive locations in proximity to the proposed onshore substation. Any potential effects that could have a significant effect on sensitive locations will be evaluated within the EIA Report.</p> <p>Furthermore, noise limits will be agreed with Aberdeenshire Council. The proposed development would be required to meet these noise limits and, where necessary, appropriate mitigation measures will be implemented to ensure these limits are met.</p>
<b>Climate considerations</b>	Concern that developers have no interest in reducing climate change and are only interested in making money for themselves and their investors, many of whom are not from Scotland.	<p>ScottishPower and Shell are committed to tackling climate change. Shell has set an organisation target to become a net-zero emissions energy business by 2050 and Iberdrola, ScottishPower's parent company, has set a similar target for 2040. Both companies are making significant investment in renewable energy and low carbon projects, which includes offshore windfarms such as MarramWind.</p> <p>MarramWind Offshore Windfarm is expected to generate enough electricity to power the equivalent of more than 3.5 million homes. This will help support the reduction in carbon intensity of the UK energy system, as well as enhancing the UK's drive for energy security and green energy independence.</p>
	Scepticism about our ability to influence the earth's climate and the amount of money being spent to meet Net Zero targets in proportion to the global percentage of Scotland's CO <sub>2</sub> emissions.	<p>Carbon emissions in the atmosphere have a global effect. Although when viewed on a global scale the benefits of individual projects may appear minor, the renewable energy produced by the windfarm will support the reduction in carbon intensity of UK energy and therefore will support UK and global efforts to reduce CO<sub>2</sub> emissions.</p>
<b>Construction considerations</b>	Feedback that Construction methods and installation should be efficient and limit	<p>We understand the importance of minimising disruption during the construction phase. We are committed to utilising efficient construction methods and best practices to streamline the process and reduce any potential effects on the local community and environment. This includes:</p>

Topic	Nature of comment	The Applicant's response
	disruption during construction.	<p><b>careful planning and scheduling:</b> We will develop a detailed construction plan that optimises the sequence of activities, minimises construction traffic, and avoids peak times where possible,</p> <p><b>use of modern construction techniques:</b> We will explore the use of innovative and efficient construction methods, such as prefabrication and modular construction, to reduce on-site construction time and minimise disruption; and</p> <p><b>effective communication and engagement:</b> We will maintain open lines of communication with local communities and stakeholders throughout the construction process, providing regular updates on progress and addressing any concerns promptly.</p>
	Concern about the number of companies involved in the development and the perceived detachment of the project infrastructure. A suggestion was made that the public should have been presented with a completed plan at consultation.	<p>We understand the concerns raised about the number of companies involved and the perceived fragmentation of the project infrastructure. While the various elements are interconnected, they often require specialised expertise, necessitating collaboration with different contractors. However, a comprehensive plan is in place to coordinate these various contractors during the construction phase, and to ensure our compliance with relevant regulations and legislation for construction, design and management.</p> <p>MarramWind will implement a robust Project Management System to oversee all aspects of construction. This system will ensure clear communication, coordination, and scheduling among all contractors, minimising disruption and ensuring the efficient and timely completion of the onshore infrastructure. We are committed to engaging with stakeholders throughout the construction process, providing regular updates and addressing concerns as they arise. A final project design will be presented to stakeholders in 2025 before submitting our planning applications to Aberdeenshire Council and the Marine Directorate. This will have followed the two rounds of statutory consultation we have held in 2024 which presented our proposals at early stages in the development process. We value stakeholder feedback and have used this to refine our project design. Presenting a completed project plan at consultation would have limited how much of our design stakeholders could influence.</p>
<b>Brownfield sites</b>	A suggestion to use brownfield sites for the	We appreciate concerns about minimising effects on the countryside. The use of brownfield sites was carefully considered during the initial site selection process. As part of our comprehensive assessment,

Topic	Nature of comment	The Applicant's response
	infrastructure, rather than the countryside.	we evaluated various factors, including environmental effects and technical feasibility. While no suitable brownfield sites were identified within the optimal search area near the grid connection point, we remain committed to minimising the footprint of the onshore substation and implementing measures to mitigate environmental effects.
<b>Benefits and opportunities</b>	A suggestion to create a scholarship for local high schools e.g. Mintlaw/Peterhead	It is important for us that local communities to MarramWind see benefits from the project. One of these will be the jobs created during construction and operation. Therefore, we are committed to working with education institutions to provide support to learn about STEM subjects, and to highlight career opportunities created by MarramWind. We are exploring a range of ways to do this and will consider scholarships.
	A request for cheaper electricity and upgrades to roads and drains.	The ability to deliver cheaper electricity from MarramWind to local communities would be dependent on us entering into an agreement with an energy utility who could develop and run an appropriate community energy tariff. We have not yet developed detailed plans for how we will sell the electricity generated by MarramWind.  We would seek to minimise effects of vehicle traffic by using temporary access roads. However, there may be a requirement to improve local road infrastructure to make it suitable for our works vehicles. Any upgrades to local roads would be agreed with the local authority.
	A suggestion for a windfarm fund to be created with a fee for every MW produced, and that only the interest can be spent in the first five years.	We will explore a range of options for how we design and operate our Community Benefit Fund. The fund will align with best practice guidance and in support of local planning policies, but we will also seek input from stakeholders on how we design and administer the fund.
	A suggestion was made that the Community Benefit Fund	As the project progresses, we will be seeking views on how our Community Benefit Fund can be designed to deliver the greatest positive and lasting benefits. Community Benefit Funds are widely used in the renewable energy industry and are not intended to compensate for any potential effects from

Topic	Nature of comment	The Applicant's response
	should prioritise affected communities	MarramWind. Rather, it will be used to create a positive legacy and will help local communities benefit directly from opportunities created by the project.
	A recommendation was made to use local suppliers during construction.	MarramWind presents opportunities for companies across the energy supply chain, including local suppliers. We have outlined our intent to use Scottish suppliers within the MarramWind Supply Chain Development Statement, which includes commitments to spend around £4.6 billion within the Scottish supply chain but an ambition to spend approximately £6.5bn. Our commitments and ambitions depend on the capability and capacity of the Scottish offshore wind supply chain to provide goods and services. The opportunities for local companies are broad and varied, but some of the larger opportunities may include the building and assembly of the infrastructure components and supporting the operations and maintenance of the windfarm when constructed. We intend to promote contract opportunities via the MarramWind website and would encourage potential suppliers to register interest via our supply chain portal at <a href="http://www.marramwind.co.uk">www.marramwind.co.uk</a>
<b>Remuneration considerations</b>	A suggestion to provide remuneration as a part of any agreement with residents who are affected by the substation/general works	Our priority for the design of MarramWind's onshore infrastructure will be to avoid adverse effects as much as possible. Direct financial remuneration would occur where the project is seeking to purchase land or use land for the onshore infrastructure.
<b>Fisheries</b>	Concern about the impact of the development on fishing practices. This included navigation safety for fishers, potential impacts on herring spawning grounds caused by disturbance to gravel, loss of fishing grounds and the impact of seabed infrastructure.	The Applicant is committed to maintaining regular engagement with fishers and their representative bodies throughout the development process. This engagement will continue to include dedicated fisheries meetings as part of statutory consultation events. The issues raised by fishers will continue to be acknowledged and incorporated into the iterative design process of the project. Other concerns that extend beyond the development stage will also be considered, and dialogue with the sector will continue if the Project secures consent.

Topic	Nature of comment	The Applicant's response
Promotion of consultations	A request for more formal promotion of future consultations, with concern raised that key areas did not receive notice about the consultation	<p>Giving stakeholders the opportunity to comment on our proposals is incredibly important to us, and we are keen to ensure everyone knows about their opportunity to provide feedback. During our first round of statutory stakeholder consultation, we undertook a promotional campaign in the run up to and during the consultation period. This went above statutory minimum requirements and included:</p> <ul style="list-style-type: none"><li>• a series of adverts and Notices placed in the Buchan Observer and Press &amp; Journal in the weeks leading up to consultation launch and the events,</li><li>• digital adverts on the Buchan Observer's website,</li><li>• notifications via the MarramWind website and social media channels,</li><li>• a radio advert running for two weeks on the local radio station, Original 106,</li><li>• posters displayed in local public buildings,</li><li>• emails and letters issued to statutory and non-statutory stakeholders and key community representatives including Community Councils, Councillors, MPs and MSPs; and</li><li>• a leaflet hand-delivered to over 12,000 properties within and neighbouring the project boundary.</li></ul> <p>We have adopted the same approach to promoting the second round of consultation as previously undertaken, including the use of Royal Mail to deliver leaflets to ensure delivery.</p>

