

Working together for a
cleaner energy future



PAC report Appendix 5: Statutory Consultation 2 -
Consultation Materials and Feedback

MarramWind Offshore Wind Farm

December 2025

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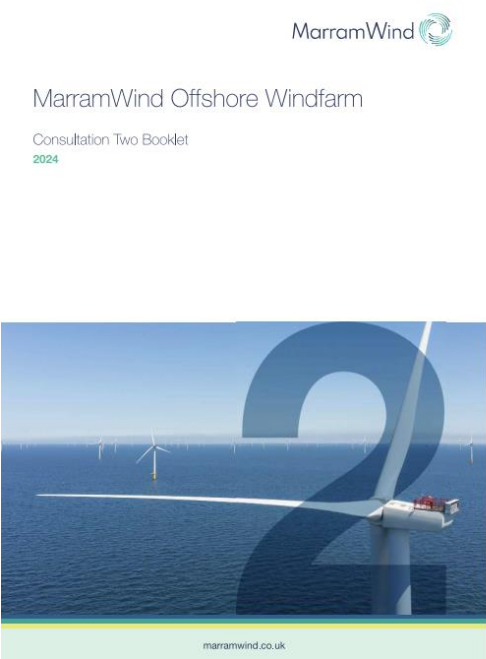
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5.1 Booklet



About MarramWind Floating Offshore Windfarm

The proposed MarramWind floating offshore windfarm will consist of floating wind turbines. Situated in deep waters approximately 7km off the north-east coast of Scotland at its nearest point, the wind turbines will be barely visible from shore.

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



Optimising Sustainability

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

- Emissions Reduction:** we are committed to minimising, monitoring and measuring our greenhouse gas emissions where feasible.
- Embedding Circularity:** our ambition is to use resources and materials efficiently and minimise waste and recycling across the project lifecycle.
- Nature Positive Development:** we are committed to ensuring negative effects on biodiversity are avoided where possible or mitigated effectively and that the project has an overall positive benefit on biodiversity.
- Optimising Social and Economic Performance:** we will seek to maximise the project's net economic effect while supporting local and regional economic priorities, including employment and skills development and associated business/supply chain opportunities.

We are adopting a holistic approach to sustainability, with all key priorities considered together. For each key priority we are reviewing options for enhancing sustainability, including exploring existing design options, new technologies and partnership opportunities. We will undertake studies to further explore and select which options can be taken forward. By adopting this approach, we will seek to optimise sustainability performance that will benefit the environment and local communities.

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, from development through to construction, operation and maintenance, and decommissioning.

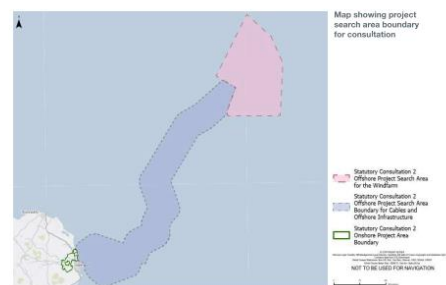
MarramWind has defined a project search area boundaries, shown in the map below, which has been refined since our first round of consultation. The expectation is that this boundary will be further refined in the future, as the best locations for the infrastructure are identified.

The current project search area ensures that we can adjust the project design through our design development, environmental assessments, and stakeholder feedback. Further information about the refinements made to the offshore and onshore project area boundary can be found in the 'Offshore Project Updates' and 'Onshore Project Updates' sections of this booklet.

MarramWind, generating up to 3GW of power, will connect to the national grid via the proposed Scottish and Southern Electricity Networks (SSEN) Netheron Hub substation to the west of Peterhead. This was confirmed by National Grid in their Holistic Network Design (HND) report and subsequent follow up exercises. While the HND is a crucial step for renewable energy connection, it is part of a larger picture. The Beyond 2030 Report builds on the HND, aiming for a clean, secure, and affordable energy future throughout the 2030s. This ambitious plan aligns with the UK Government's ambition to have a fully decarbonised electricity system by 2035 and will support delivery of the projects listed via Scotland.



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

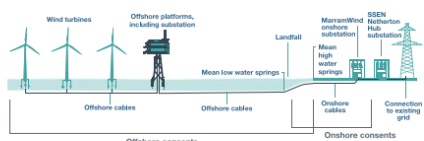
Under the Scottish Government's National Planning Framework 4, MarramWind is classified as a National Development. This means that the need for the project has been established through Government policy, but that planning permission, marine licences and other consents or licences are still required for construction and operation. We will need to make separate applications for the following key consents for both the offshore and onshore elements of the project:

- Section 36 consent**, under the Electricity Act 1989 (S36), is required for the offshore windfarm site. Permission is granted by the Marine Directorate (on behalf of Scottish Ministers), referred onwards as the Marine Directorate.
- Marine licences**, under the Marine (Scotland) Act 2010 (s12 nautical mile) and the Marine and Coastal Access Act 2009 (12-200 nautical mile), the Project is seeking marine licences. This is to undertake marine knowledge activities, including the installation of cables or other infrastructure on or within the seabed. Permission is granted by the Marine Directorate.
- Onshore planning permission**, under the Town and Country Planning (Scotland) Act 1997 (TCPA), is required for all infrastructure located above the average level of low 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 MHWS and MLWS – this area is known as the intertidal zone. This consultation presents the project as a whole, including onshore, intertidal and offshore infrastructure.

Our first consultation, held earlier this year, was delivered in line with requirements set out in the TCPA. This second consultation, and the events we are hosting within the current consultation period will further fulfil the requirements set out by the TCPA, as well as the requirements for the relevant marine licences. We will also be undertaking an EIA, which is the process of assessing the likely significant effects the project could have on the environment. In addition, 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.

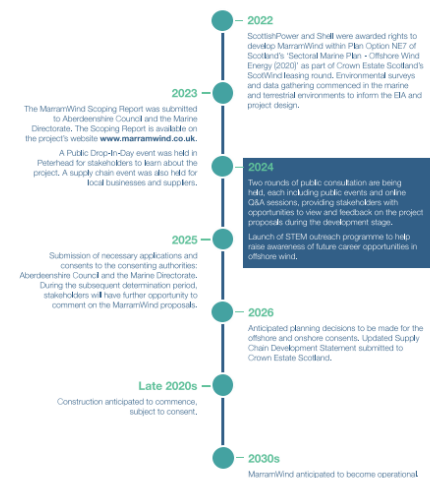
The diagram below shows the infrastructure that may be required for the onshore and offshore elements of MarramWind, as well as which sections of the project are related to the different consents we need to apply for. Further information on the onshore and offshore infrastructure is provided in the 'Offshore Key Infrastructure' and 'Onshore Key Infrastructure' sections of this booklet.



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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 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.

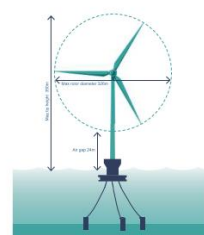
Electricity transmission

The electricity generated by our wind turbines will be transmitted by cables to the shore where they will connect to the onshore infrastructure and 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) and High Voltage Direct Current (HVDC) transmission technologies, or a combination of the two.

The wind turbines will generate HVAC electricity, which is the electricity distributed by the national grid. It is common for offshore windfarms closer to shore to transmit electricity using HVAC transmission. As the transmission distances get longer, electrical losses increase. At a certain point, it becomes more effective to convert the HVAC transmission to HVDC transmission as HVDC cables do not experience electrical losses of the same magnitude as HVAC cables. The electricity is then converted back to HVAC at a converter substation onshore.

The infrastructure required for all the options is broadly similar, but HVDC transmission requires specific equipment for converting HVAC to HVDC electricity. This is done using an offshore converter station before being converted back to HVAC at an onshore converter station. The electricity is then connected to the national grid.

HVAC transmission in comparison may require an additional offshore platform approximately midway between the offshore windfarm and the onshore substation to house electrical equipment needed to stabilise the voltage of the electricity generated. Other differences include the number and size of the cables needed to deliver power to the national grid.



The floating wind turbines

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

Depending on the final size of the wind turbine, the windfarm is expected to have between 120 and 225 turbines. The wind turbine specifications will vary depending on the size, as follows:

- Each wind turbine could have a **blade tip height up to 350m** from the water's surface, but as the windfarm will be located approximately 75km offshore at its nearest point, they will be barely visible from shore. The maximum rotor blade tip height depends on which turbine sizes are selected.
- The **maximum rotor diameter for a 25 MW wind turbine is expected to be around 320m**. Smaller turbine generating capacities are likely to have smaller rotor diameters. For the purposes of the EA, MarramWind is assuming a maximum rotor diameter of 320m or 330m, depending on turbine size.
- Each wind turbine will have three blades, irrespective of turbine size. The **maximum rotor blade length is 5.1-10m** and the **maximum rotor blade width is 115-155m** depending on the selected turbine sizes.

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- Navigation lighting** will be installed on the wind turbines and floating units to reduce navigational and aviation risk in low light conditions. The specifics of this will be in line with relevant regulations and agreed with the Civil Aviation Authority and the Maritime and Coastguard Agency prior to installation.

Mooring and anchoring systems

Each wind turbine will sit on a floating unit that will be held in place by a mooring and anchoring system. The design of the mooring and anchoring system will depend on the size of wind turbine and floating unit used. A maximum of eight mooring lines will be required per floating unit. The exact number will depend upon the preferred mooring design for each floating unit type. Anchor type will also depend on the soil conditions and the maximum loads that the anchor needs to be able to withstand. Studies are underway to identify a preferred mooring design for anchoring each wind turbine to the seabed. This will include geotechnical surveys to determine the locally specific soil conditions. Further information on the options being considered will be available in the EA, which will be available when we submit our application.

The mooring options currently being explored are catenary mooring, taut line mooring, and semi-taut mooring. The maximum worst case for the total

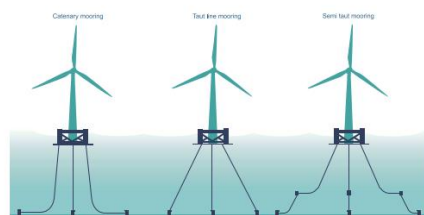
mooring footprint will be calculated from the number of wind turbines, number of mooring lines, and anchor type dimensions. This will inform the assessments of benthic ecology, fish and shellfish ecology, and commercial fisheries.

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 option 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 system and catenary mooring system. This option has shorter mooring lines and requires less seabed space than the catenary system. Decisions on the most appropriate anchoring and mooring solutions are yet to be made as product development is advancing quickly and the future supply chain at the time of construction will have moved on from current product availability.

Further information on the options being considered will be available in our EA. The chosen mooring system will comply with regulations, including navigational safety and consider effects on the seabed and marine life.



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Offshore platforms and substations

Offshore platforms will be necessary within the windfarm site to house electrical infrastructure, such as substation equipment or controls, and operational systems.

It is at these offshore platforms that the cables connecting the floating wind turbines connect to the cables that will transmit electricity to shore. The number of substations required for MarramWind will depend on whether the project chooses HVAC or HVDC technology (or a combination of both), and the layout of the windfarm site. Offshore accommodation options are being considered for project engineers and crew, with this likely to be provided in a module within the offshore substation. If HVAC technology is used, the length of the offshore cable route may require the installation of additional equipment to support transmission. The equipment will be located on offshore structures located at the approximate mid-point between the windfarm site and where the cables make landfall (where the cables come onshore).

Offshore and landfall cables

Electricity will be transmitted through offshore cables that connect the offshore windfarm with the onshore substation and then the national grid. The voltage, number and size of the cables required will depend on whether HVAC or HVDC technology (or a combination of both) is used.

The cables will be protected by burying them below the seabed for most of their length to landfall. In the few areas where cable protection cannot be achieved by cable burial, other methods will be used to protect them. This may include rock armour or concrete mattresses, the type, location and dimensions of which are yet to be determined and will be detailed in the EA and marine licence application.

The maximum grid transmission route length offshore is 150-160km, depending on the precise locations of the landfall(s) and the offshore substation. The offshore cable corridor surveyed to date is typically 1.2km wide along most of its length. However, the first cable width is dependent on the water depth and will therefore be narrower in shallower water depths closer to the shore. The cables will be laid by a cable laying vessel in sections and joined together. The cable laying vessel buries the cables 1-2m beneath the seabed whenever possible.



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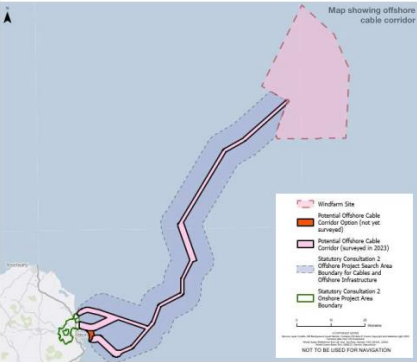
Offshore Project Updates

Since our first round of consultation, we have been working to refine our offshore project design. We have also been preparing to undertake collision risk modelling to determine the risk to seabirds from the wind turbines and analysing geophysical and environmental data obtained from the surveys we undertook in 2022 and 2023 to better understand the marine environment. The offshore boundary includes the windfarm site itself and a broad potential offshore cable corridor for cables and offshore infrastructure between the windfarm and the coast, as shown on the map below. This corridor

sits within a wider offshore project search area, which will allow space for potential changes to the offshore cable corridor as a result of our assessments.

The windfarm site

The windfarm site covers the area of Plan Option NET, which was identified for development by the Scottish Government's Sectoral Marine Plan - Offshore Wind Energy in 2020. The windfarm site is 68km² and has water depths ranging between 67m and 134m. Work is ongoing to determine the windfarm site layout and exact locations of the required infrastructure. We are considering environmental sensitivities, marine users, seabed conditions, water depths, and the presence of existing infrastructure. The layouts are also being reviewed to enable co-existence with other projects such as those with licences in the region.



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Offshore cable corridor

Cable routing work is also ongoing to identify the optimal route for the offshore cables between the windfarm site and landfall(s) on the coast. This considers environmental sensitivities that need to be avoided as well as factors that could limit the technical feasibility of installation. We are engaging closely with technical stakeholders, such as Natural Scotland, commercial fisheries groups, and the Maritime and Coastguard Agency to understand how MarramWind's construction and operation could interact with other marine users in Scottish waters and what we can do to reduce effects and maintain navigational safety.

Landfall

At our first round of consultation, three potential search areas were presented where landfall(s) could be located:

- Scotstown Beach, north of Peterhead;
- Lunderton, north of Peterhead; and
- Sandford Bay, south of Peterhead.

Taking into consideration stakeholder feedback and the results of additional environmental and technical assessments, Sandford Bay has been discounted as a landfall option and the onshore and offshore cable routing associated with Sandford Bay removed.

Sandford Bay has been discounted due to the proximity of the landfall to the Buchan Ness to Collieston Coast Special Protection Area (SPA), a designated breeding ground for seabirds. Another key consideration that also informed this decision is the number of other projects in the vicinity that will limit space for routing the offshore and onshore cables and associated landfall infrastructure.

The offshore project search area boundary has also been refined since our first round of consultation. As the nearshore approach to Sandford Bay has been discounted, the southerly edge of the offshore boundary has also been reduced (shown in the grey hatched area on the map opposite). The southerly cable corridor remains in place however, as it can form the connection to the Lunderton landfall via a section around Peterhead (shown in orange on the map opposite). This area is being explored for feasibility but has not yet been surveyed. It is retained to offer design flexibility given the number of cables required. It is probable that the southerly route and the orange connecting corridor will be discounted, but the project is not yet able to make that decision.

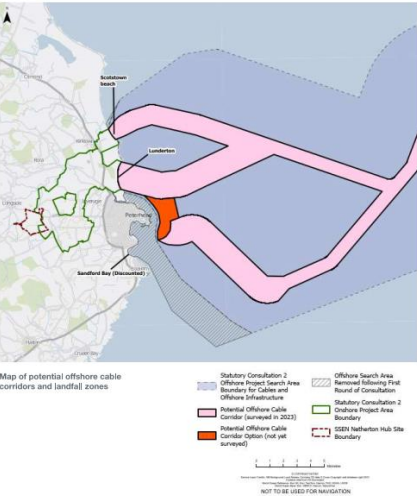
Scotstown Beach and Lunderton continue to be viewed as suitable locations for landfall(s) from environmental and technical perspectives, enabling the routing of the offshore and onshore cables and associated infrastructure.

It is possible that both Scotstown and Lunderton landfall locations will not be taken forward, although this is not the preferred solution which is to use a single landfall. It is not possible to confirm this at this time as we must ensure there is adequate space for the cables to come ashore, as well as for the onshore infrastructure required for the onshore power transmission, such as construction compounds. Within the chosen landfall(s), a more refined landfall site will be identified where the offshore cables come onshore. These decisions will depend on further engineering and environmental considerations and technical surveys, stakeholder engagement, the location of other developments, the cable route itself, and the onshore substation location.



Ecological surveys being undertaken on site in the project area

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Map of potential offshore cable corridors and landfall zones

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Listening to your feedback - working with other developers

You said...

"MarramWind should share cable corridors with other developers at landfall."

Our response...

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.

Listening to your feedback - your key landfall concerns

You said...

"The key topics that MarramWind should consider in selecting a landfall are:

- Seascape, landscape and visual considerations,
- Environmental protection,
- Construction methods and installation, and
- Intertidal wildlife, including birds."

Our response...

Seascape, landscape and visual considerations are extremely important; the effects from the project on these are 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.

Listening to your feedback - brownfield sites

You said...

"Brownfield sites should be used for the infrastructure rather than the countryside."

Our response...

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, 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.

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Onshore Key Infrastructure

The onshore infrastructure includes an onshore substation and onshore cables. The onshore cables run from (landfall(s) to the onshore substation and subsequently to the point of connection at the SSEN Netherton Hub substation.

Onshore cables

The cables will be laid underground within a cable corridor at an average depth of 1.5m. Points of access will be required along the cable route for maintenance of the cables during operation. It is expected that the width of the temporary onshore cable construction corridor for the underground cable will be approximately 135m. Following cable installation the project will require permanent access rights for maintenance purposes.

Listening to your feedback - cable effects on rural areas

You said...

"...there is concern about the effect of onshore cable routes on rural areas such as Longside."

Our response...

The onshore cables will be installed underground, therefore no pylons or overhead lines will be required. The temporary construction footprint will be kept to a minimum and on completion of the cable installation, any construction compounds and haul roads will be removed, and the land reinstated.



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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 transformed to the voltage level required for the national grid.

The substation will be either fully or partially enclosed - a final decision has not been made and will be informed by stakeholder feedback, further engineering and environmental assessment. Illustrative images of a fully and a partially enclosed substation are shown here. As a final substation site has not been selected yet, these images are not site specific but are illustrative only and indicative of project requirements. The final design and layout will be determined as the project design evolves. The substation infrastructure will comprise of outdoor and/or indoor high voltage electrical equipment, such as transformers, switchgear and, if necessary, equipment to convert HVDC into HVAC. A transformer is electrical equipment that helps change the level of electricity voltage. Switchgear is electrical equipment that helps connect and disconnect the circuits from the electricity network.

The substation infrastructure will vary in height, with a maximum approximate height of up to 32m. Indoor equipment will be installed in several buildings. Work is ongoing to identify the best technical and environmental solutions, which will determine final equipment requirements and the substation's size. The substation and associated buildings could cover up to 18 hectares of land. A temporary construction area of up to four hectares will also be required. Subject to the substation design, additional land will be required for drainage, environmental mitigation and landscaping.

In our ongoing efforts to minimise the visual effects of the substation on sensitive views, we have carefully considered the use of tree planting as a natural screening method. By strategically planting trees around the substation, it would be possible to create a green buffer that blends seamlessly with the surrounding landscape as the trees grow. This approach not only helps to soften the industrial appearance of the substation but also enhances the overall aesthetic of the area.

For this approach we would select native tree species that are well-suited to the local environment, ensuring that they thrive and contribute positively to the ecosystem. These trees would grow over time to provide an effective visual barrier, reducing the substation's visibility from key viewpoints. Additionally, the introduction of these green spaces would also support local wildlife and improve air quality, further demonstrating our commitment to environmental stewardship.

Listening to your feedback - substation design

You said...

"...the substation should be built as low as possible and be sympathetic to its surroundings."

Our response...

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.



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Illustrative conceptual design for a partially enclosed substation



Illustrative conceptual design for a fully enclosed substation



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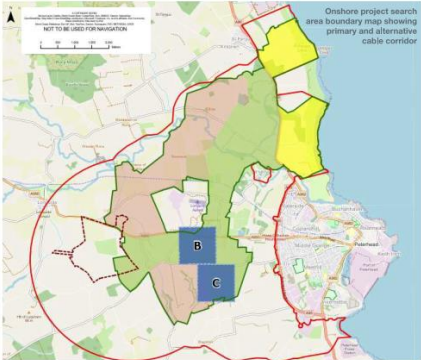
Onshore Project Updates

We are carrying out work to identify the onshore cable corridor and onshore substation site within the project search area boundary as shown below.

We are engaging closely with technical stakeholders, such as the Scottish Environment Protection Agency, 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 avoid or reduce these effects.

The current onshore project search area boundary has been significantly refined from that presented at our first round of consultation. This reflects:

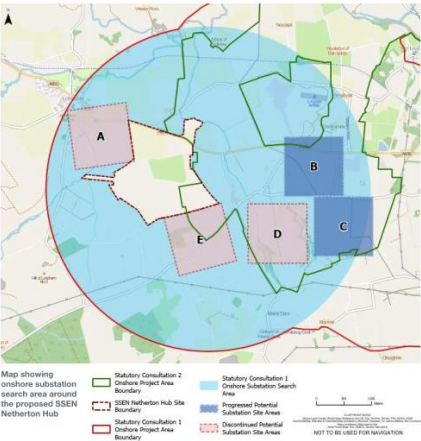
- the shortlisting of two onshore substation options (labelled B and C on the map) from the five options presented in the first round of consultation;
- the removal of Sandford Bay as a possible landfall;
- confirmation that the project grid connection point will be in the southeastern corner of the SSEN Netherton Hub site; and
- refinement of the onshore cable corridor connecting (landfall(s) to the substation and subsequently to the SSEN Netherton Hub.



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This map shows the extent of the search area around the grid connection point at the proposed SSN Netherton Hub, as well as the previous five site options.

The actual land required for the substation will be smaller in size than shown by the dark blue squares.



Based on the results of further environmental and technical assessments undertaken since the first round of statutory consultation, and taking into consideration stakeholder feedback, substation options A, D and E have been removed as potential locations for the onshore substation.

Options B and C are now being taken forward for further assessment to identify a preferred onshore substation that provides sufficient space for its construction and operation. This assessment will take into consideration stakeholder feedback received as part of this consultation, further environmental and technical assessments, and stakeholder engagement with statutory consultees. The outcome of this iterative design and site selection process will be reported on in the Environmental Impact Assessment Report.

Onshore cable corridor

With the removal of Sandford Bay as a landfill, there is no requirement for an onshore cable corridor from Sandford Bay to the onshore substation. Furthermore, with the removal of three onshore substation options, there is also no longer the need to consider cable corridor routes to these sites. Consequently, the cable corridor search area has been adjusted to focus on a primary and an alternative cable corridor that connects the two remaining landfalls to the north of Helenshead to the two shortlisted onshore substation options (B and C). These are shown in green and brown respectively on the onshore project search area boundary map on page 18.

These two cable corridors each contain viable routes. The primary cable corridor is shorter and more direct, potentially reducing effects on the surrounding area. However, there are numerous other factors including landowner engagement, stakeholder feedback and environmental and technical constraints that influence the selection of a preferred cable corridor. The assessment of which has yet to be finalised.

The next step will be to identify a preferred onshore cable route within either the primary or alternative cable corridors. The identification of the preferred onshore cable corridor will take into consideration stakeholder feedback and further assessment of local environmental and technical constraints. This allows us to develop a design that connects the chosen landfalls and the SSN Netherton Hub substation, via the chosen MarramWind onshore substation site.

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Listening to your feedback - your key onshore concerns

You said...

- the key topics that MarramWind should consider in siting onshore infrastructure are:
- Landscape and visual considerations
- Environmental protection
- Construction methods and installation
- Traffic and transport.*

Our response...

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:

Landscape and visual considerations

The locations of Options B and C minimise the number of properties in proximity to the sites. In addition, due to 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.

Environmental protection

Options B and C have both been assessed to have a minimal effect on protected species and habitats and provide the best opportunities for enhancing surrounding habitats and increasing their ecological value.

Construction methods and installation

Both options B and C provide sufficient space for the construction of the substation, with the sites both having suitable topography. Due to their location, the distance over which the onshore cables need to be installed is also kept to a minimum.

Traffic and transport

Options B and C 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 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.



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Environmental Impact Assessment (EIA)

What is an Environmental Impact Assessment?

Before we can build MarramWind, we need to carefully consider the potential effects on the environment and local communities. To do this, we are completing a detailed EIA that will be presented within two EIA Reports - one focusing on onshore infrastructure (including onshore cables and onshore substations) and the other focusing on offshore infrastructure (including wind turbines, subsea cables, and any ancillary offshore equipment).

The EIA helps us understand any potential environmental effects from MarramWind, and how we can avoid or reduce them. The EIA is essential to Aberdeenshire Council and the Marine Directorate, so that they can understand what is proposed before making their determination on the necessary consents.

Approach to assessments

In January 2023, we submitted our EIA Scoping Report to Aberdeenshire Council and the Marine Directorate, which outlined the environmental assessments we proposed to undertake to identify the potential significant effects from the project. The Council and Scottish Ministers consulted with specialist stakeholders on the Scoping Report, covering various environmental topics and their feedback in their Scoping Opinion has been used to refine our assessment approach. The Scoping Report can be found on the MarramWind website at www.marramwind.co.uk.

We have undertaken an extensive programme of surveys to better understand current environmental conditions. Where available, we have provided information on the emerging baseline data findings in the section below. Alongside our surveys, we are also engaging with key stakeholders, including government and statutory consultees, on the various assessments we are undertaking (as detailed in the following section). This allows these stakeholders to influence how we undertake the assessments so that the EIA meets their expectations.

The EIA assesses the likely significant effects of MarramWind for all project phases, including construction, operation and maintenance, and decommissioning. This is informing the siting and design of the onshore and offshore infrastructure. We are considering all potential significant effects to ensure that they are either avoided where possible or mitigated.

Listening to your feedback - health considerations

You said...

- there is concern about the effect of Substation Site D on health for those that live in Blackhall.*

Our response...

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 adverse effects on human health.

You said...

- there is concern about the effect of living within a large industrial area on health and wellbeing.*

Our response...

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.

Full details of the survey work, the approach and findings of the assessments, and the proposed mitigation measures will be published in the publicly available EIA Reports that will form part of our application. The EIA Reports will allow Aberdeenshire Council and Marine Directorate, who will consider our applications, to make a well-informed decision on whether the project should be given permission to go ahead.

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Offshore wildlife and habitats

We have already undertaken various offshore surveys and studies to understand the distribution of marine habitats and local marine wildlife. This has included:

- Digital Aerial Surveys to better understand the seasonal distribution of birds and marine mammals. This involved two years of offshore surveys using planes equipped with ultra-high-definition cameras;
- a Marine Environmental Survey to map seabed habitats and species. We will design the offshore wind turbines layout and cables to avoid environmentally sensitive areas; and
- eDNA Samples to understand the distribution of fish species, which is a less intrusive method than traditional fish surveys. eDNA sampling involves analysing water samples for fish DNA, eliminating the need to capture the fish to prove their presence.

We have further studies to undertake to inform the EIA, which include:

- underwater noise modelling, undertaken in the coming year to study sound levels during construction and operation, helping us minimise effects on marine mammals;
- fish and shellfish data analysis which, along with engagement with key organisations, will ensure our BA is comprehensive;

- wave modelling to model potential changes to waves caused by the windfarm; and
- working with experts to understand the effects of electro-magnetic fields (EMF) on marine species like fish, crabs, and lobsters, to help us develop mitigation measures if needed. EMFs are invisible areas of electrical energy associated with the use of electrical power.

Good practice measures will be followed to minimise potential effects on water quality during construction. Measures will be described in bespoke environmental management documents which provide details on how to manage, monitor, control and report any incidents.



Listening to your feedback
- protecting and enhancing
marine environment

You said...

"... protecting and respecting marine life and habitats is important and disturbed areas should be left in a better condition than before."

Our response...

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.

Commercial Fisheries

Respondents to our first round of statutory consultation rated commercial fisheries in the top five most important offshore topics that we should be considering. To understand the activities of commercial fishing operations in the region and the views of fishing representatives, the project meets on a quarterly basis with various fishing organisations. We also met with the Scottish Fishermen's Federation, the Scottish Pelagic Fishermen's Association, and individual inshore fishers during our first round of statutory consultation. These meetings highlighted an interest in understanding the potential for electro-magnetic fields around buried cables to influence crustacean distribution. The fishing representatives shared their knowledge of certain areas that are good grounds for scallops, lobster pots, and trawling for white fish and prawns.

Listening to your feedback -
surveying crabs and lobsters

You said...

"... a survey on brown crabs and lobsters should be undertaken before and after the offshore cable is installed."

Our response...

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. Bunnies identified could possibly have been made by the Norway lobster. 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.



Shipping and navigation

We carried out vessel traffic surveys in August 2022 and January 2023. To keep our data up to date, we also completed an additional survey in July and August 2024 and have another similar survey planned for November 2024. These surveys have helped us understand the patterns of other maritime users to pass through the windfarm site. This information is important as we prepare our Navigational Risk Assessment, following the guidelines set by the Maritime and Coastguard Agency. The assessment will include detailed baseline data from our vessel traffic surveys, ensuring the safety and coordination of all maritime activities in the area.

We will be engaging with key stakeholders to understand any potential hazards to users of the sea, including commercial, fishing and recreational vessel operators. The Navigational Risk Assessment will provide mitigation measures required to ensure the project is safe for all users.

Landscape and visual

Respondents to our first round of consultation rated landscape and visual considerations as a key topic that we should be considering. We have undertaken landscape and visual surveys of the landscape in the project area boundary to better understand the local landscape character, key characteristics, landscape elements and visually sensitive areas.

Substation options B and C were assessed as most able to accommodate a substation due to reduced landscape and visual sensitivity relative to the surrounding landscape. This is largely down to the range of development and industrial influences along this part of the A950 corridor, which would allow a better fit with the existing landscape and visual context compared to the other site options. They also lend themselves to a range of landscape and architectural mitigation options to provide screening and improve the visual appearance of the development, including opportunities for landscape enhancement.

Listening to your feedback - landscape and visual considerations

You said...

"... there is concern about the visual effects from key viewpoints."

Our response...

The wind turbines will be located approximately 75km offshore. Even with their maximum blade tip height of up to 350m, 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.

You said...

"... there is concern 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."

Our response...

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. 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 Hillhead of Cooklaw) is visible from a wide area.

You said...

"... Site D is preferred by some stakeholders because it is well-screened from the neighbouring properties and would have little effect on the landscape or nearby villages."

Our response...

Substation site D was assessed as one of the less well performing site options as it is less able to accommodate the substation development due to its remote and highly elevated location. It would also be located between the landscape features of East Den and West Den which would be sensitive to the proposed development. In addition, the site is worst performing in terms of ecology due to its proximity to and potential effect on water courses and habitats along East and West Dens. Road access requirements to the site were identified as a further constraint in comparison to other locations.

Substation site A was also noted as one of the less well performing sites for landscape and visual reasons due to the sloping topography and the likelihood that it would adversely affect the views from nearby communities and the landscape setting of Longside village.



Onshore wildlife and habitats

Respondents to our first round of consultation rated onshore wildlife, including birds and environmental protection (for both onshore and landfall), as important topics for consideration.

Over the past two years, we have conducted a comprehensive ecological study, including both desk research and field surveys, to inform the potential along of onshore infrastructure. Surveys have been undertaken to identify local habitats and animal species, including two years of breeding and winter geese surveys, and collection of protected species data for other, water vole, bats, and fish habitats.

Wherever possible, we will avoid identified resting, roosting, commuting or foraging sites of protected or notable species, as well as sensitive seasonal periods for wildlife. For instance, seasonal restrictions could be implemented to restrict our works if they are considered to cause significant disturbance to waterbirds that use agricultural land close to landfall. Habitats of high value, such as certain types of woodland, wetland or river habitats, and dune habitats will be avoided wherever possible. In addition to these measures, a Nature Positive Strategy (NPS) has been developed, which sets out how MarramWind intends to measure, monitor and enhance biodiversity. The NPS will be used to develop an NPP, which will describe the measures to be developed, implemented, monitored and reported throughout the project life cycle.

Listening to your feedback - protecting and enhancing onshore environment

You said...

"... that local habitats, flora, fauna and landscapes should be left in a better condition than they currently are to encourage greater biodiversity."

Our response...

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.



Onshore water environment


The project area features various water bodies, including rivers, ditches and ponds. It is also home to a Drinking Water Protection Area, and the River Ugie, whose tributaries are designated as important surface water bodies. These water bodies must maintain a good status by addressing ecological and chemical conditions.

We have identified several private water supplies, such as springs and wells, as well as flood risk zones and WRD water bodies. We have also undertaken ecological surveys to map aquatic habitats.

During construction, we will follow industry good practice for pollution prevention and will avoid construction works close to watercourse channels. For sensitive areas, such as the River Ugie, we will use techniques such as Horizontal Directional Drilling (HDD) to install cables below watercourses. HDD is a trenchless construction method for installing cables used where it is necessary to cross sensitive features, such as watercourses or roads without disturbing them. The cables are then pulled through via entry and exit pits. We are also committed to maintaining the existing field drainage systems during construction and reinstating them once work is complete.

Listening to your feedback - onshore water environment considerations

You said... “...there is concern about the damage to drinking water taken from wells.”	Our response... 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.
You said... “...there is concern about field drainage and damage to water courses.”	Our response... 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 such commitments as part of environmental mitigation measures and will continue to do so as part of our ongoing water environment assessments.



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Cultural heritage

Archaeology and cultural heritage continue to inform the ongoing design changes. We are dedicated to protecting cultural heritage assets and aim to avoid or minimise any potential harm to these important sites, both onshore and offshore. Any new discoveries we make will be shared with the public, contributing to a better understanding of Scotland's history and archaeological resources.

We have been undertaking surveys to obtain data crucial for identifying and protecting cultural and heritage assets offshore, ensuring that sensitive and significant sites are avoided. Our survey methods include the use of sound waves to create detailed images of the seabed and what lies on and below it.

We also employ magnetometry to detect objects containing iron, such as shipwrecks. Additionally, sub-bottom imaging helps us uncover environmental information about submerged landscapes before sea levels rose thousands of years ago.

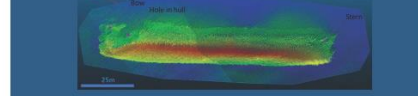
As we move closer towards our construction phase, we will conduct a more detailed survey of the offshore cable route and wind turbine site to further identify and avoid cultural heritage and archaeological assets. Our surveys have already discovered several previously unknown shipwrecks, which we will carefully avoid. When significant wrecks are found, we notify Historic Environment Scotland to ensure appropriate management strategies are put in place for their preservation.

An underwater discovery

Data gathered by sonar scans carried out during geophysical and environmental surveys for MarramWind has identified the likely resting place of the SS Tobol, which was torpedoed by a German U-boat in 1917.

The shipwreck believed to be that of Tobol was among several discovered during the survey works for the 3GW windfarm being developed by ScottishPower and Shell. The ship was built in Sunderland at the turn of the 20th century and was operated as the SS Chatterton by a steamer company until it was captured by Russian warships in 1904. A year later, it was transferred to the Russian Imperial Navy and renamed SS Tobol after the river in Russia, before being re-named to the Russian Vandalier Fleet in 1916. It was torpedoed by the German U-boat U-52 on 11 September 1917 while sailing from Blyth to Ashmolean.

After its discovery, an exclusion zone of 250 metres was put in place around the wreck – which is 100m long, 22.5m wide and 10.5m high and appears to be in good condition – to protect it during the MarramWind survey works.



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Traffic and transport

As part of our substation site selection process, we have reviewed the local road network to understand effects from our construction and operation vehicles. The two substation option sites are located near the A90 and the C380 Kinnaird/Peterhead road. These roads would provide good access to a substation construction site from the A90. By choosing these substation sites, construction traffic will use the A90 and A90 which will minimise effects on the road network and nearby communities as the access routes primarily pass through sparsely populated rural areas.

We will work with Transport Scotland and Aberdeenshire Council to assess and develop measures to mitigate any short-term effects on the road network to be used for construction access. Management and mitigation plans will be developed and will include a commitment to working with other contractors to manage effects of MarramWind and other sites being developed at the same time. The plans will include enforcement of any restrictions on delivery timings to minimise the effect on people, wildlife, and buildings located nearby the proposed construction access route. Operation, maintenance and decommissioning of MarramWind are not expected to have any noticeable long-term effects on the local road network.

Listening to your feedback - traffic and transport considerations

You said... “...there is concern about the effect of Site D on local traffic in Blackhills.”	Our response... Substation option D has now been discounted, with options B and C identified as potential sites to accommodate the onshore substation. Site B has been chosen as it is located adjacent to the A90, which in turn can be accessed from the A90 via the Howe of Buchan Roundabout. The A90 passes through a generally rural area, is of a good standard and is considered able to accommodate construction traffic. Site C is located adjacent to the unclassified road which links the A90 with Kinnaird. 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. 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.
You said... “...there is concern about the inconvenience caused by construction.”	Our response... A 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: <ul style="list-style-type: none"> • specifying acceptable construction traffic access routes; • identifying any times HGV deliveries will be required to avoid; • management of deliveries via a booking system to avoid vehicles arriving in convoy; • providing a suitably sized storage area onsite to support the stocking of materials and reducing the number of deliveries, where possible; • providing access arrangements to minimise vehicle delays; and • car sharing to reduce employee vehicles.

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Air quality

The air quality in Peterhead and the wider Aberdeenshire area is very good. Aberdeenshire Council has been monitoring air quality across the region for many years, and the results consistently show that air quality levels are well within safe limits.

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

Noise and vibration

The construction and decommissioning phases of MarramWind could generate noise and vibration, such as construction traffic and excavation points. These activities will be relatively short-term and appropriate mitigation measures will be put in place through a Construction Environmental Management Plan to reduce the levels of noise and vibration. The operational phase of MarramWind has the potential to generate noise, particularly those in the vicinity of the onshore substation. As part of the operational phase noise assessment, baseline sound surveys will be undertaken at sensitive locations around the onshore substation site. The operational noise levels likely to be generated by MarramWind will be predicted and, where necessary, mitigation measures to reduce the noise emissions will be considered.

Listening to your feedback - noise effects

You said...
“...there is concern about the noise from the operational substations on local house prices and the quality of life for local residents.”

Our response...

A noise and vibration assessment will be prepared to accompany the EA 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 EA Report. 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.

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Greenhouse gases and climate change

During our first round of consultation, the majority of respondents agreed that offshore windfarms are an important part of the solution for addressing climate change.

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 from the maintenance and decommissioning of the project. A full project life cycle assessment of greenhouse gas emissions will be undertaken to identify appropriate mitigation measures. As part of our project's commitment to sustainable development and environmental enhancements, we will be continuously looking for opportunities to incorporate measures that reduce greenhouse gas emissions during construction and maintenance where feasible. Measures such as these will be reported within a carbon assessment as a part of the EIA.

Aviation

As part of our commitment to responsible development, the project is undertaking a comprehensive aviation and radar impact assessment. We have commissioned a leading consultancy in aviation and renewable energy to conduct this crucial work. They will assess the potential effect of the windfarm on both civil and military aviation, including airspace users and radar systems. This will involve in-depth research, analysis, and engagement with key stakeholders to develop effective mitigation strategies that ensure the safe coexistence of the windfarm with aviation operations. The findings of this assessment will be incorporated into the EIA.

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 HRA are:

- **Special Areas of Conservation** (SACs) 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 (SPAs)** (including those proposed but not yet formally designated), which are designated for the presence of "qualifying features". These may include bird species that are rare, vulnerable, in danger of extinction, or requiring protection due to their habitat needs. Migratory bird species are also included as qualifying features in some SPAs; and
- **Ramsar 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 communities of birds.

Alongside the work to deliver the EIA, the Project team has prepared an HRA Screening Report. That report explains the HRA process and identifies the sites that could be affected by the project. It was submitted to Aberdeenshire Council and the Marine Directorate for review and consultation on 16th August 2024 as they are the competent authorities with responsibility for HRA. They will respond to the report with a formal Screening Opinion that will be used to inform the next stage of the HRA. Where the HRA Screening Report identifies the potential for "likely significant effects" on a designated site to occur and the Screening Opinion agrees with this conclusion, it will become necessary for an Appropriate Assessment to be undertaken by Aberdeenshire Council and the Marine Directorate. MarramWind will be responsible for preparing a Report to Inform Appropriate Assessment, which will be submitted to Aberdeenshire Council and the Marine Directorate alongside the EIA to support the consenting applications. If necessary, this will provide information on the compensatory measures that could be delivered to reduce any risks to designated sites. The Report to Inform Appropriate Assessment will be publicly available upon submission.

Listening to your feedback - climate considerations	
<p>You said...</p> <p>...there is 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>	<p>Our response...</p> <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 Bordbò, ScottishPower's parent company, has set a similar target for 2030. 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>
<p>You said...</p> <p>...there is 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 CO₂ emissions.</p>	<p>Our response...</p> <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 CO₂ emissions.</p>



How Will MarramWind Be Built?

Project Programme

Construction works are anticipated to commence in the late 2020s, subject to consent. Given the scale of the project, construction may involve phased installation of both the onshore and offshore infrastructure over the course of the construction phase. It is anticipated that the infrastructure necessary for each phase will be installed sequentially. We will consider all options to minimise the impacts of a phased construction.

The total construction phase for the offshore infrastructure within the windfarm sites, including the offshore wind turbines, is anticipated to be between eight and twelve years, but this timeline will be refined as details emerge about the project phasing design and supply chain availability. The offshore cables and landfall associated with each phase of the wind farm will be installed towards the beginning of that phase's construction.

Offshore

Offshore cables

Before the installation of any offshore cables, the seabed will be prepared and cleared of obstacles, such as debris and boulders. The offshore cables will then be laid 1-2m beneath the seabed wherever possible by cable laying vessels in sections and joined together. Bunt 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

It is expected that the wind turbines will be assembled onto their floating unit at a port and then towed to site and connected to the pre-installed anchor and mooring system. Should there be advances in wind turbine installation it may be that turbines could be installed on the floating unit offshore.

Offshore substations

The foundations for the offshore substations will be built near to a port and transported to site for installation, which is likely to require the use of specialist heavy lift vessels. Once the foundations are installed to the seabed, the platform topologies, i.e. the substations and associated infrastructure, can be fitted into place.

Offshore worker accommodation

The accommodation of crew will either be onboard vessels or within an accommodation and welfare block on the offshore substation. A separate accommodation platform is being considered but is unlikely to be taken forward due to the environmental effects and cost of a stand-alone facility. The offshore substation may have a helideck so crew can be transported to the offshore substation via helicopter, although vessels will also be used.

The role of ports

Ports are central to the development of offshore wind, serving as a location for component manufacturing, assembly, storage and/or marshalling ahead of transit to the wind turbine site. Operation and maintenance activities are also dependent upon suitable ports.

We are currently engaging with a range of key stakeholders, including local authorities, port operators and the Scottish Government, to explore different options for port utilisation. We are also dedicated to investing in Scottish port and supply chain facilities to enhance their capabilities and help maximise the social and economic benefits generated by the project, which will include job opportunities.

By identifying and investing in key port facilities, we will ensure successful delivery of MarramWind while supporting the growth of the Scottish offshore wind sector. A range of facilities are being considered for the installation and operation of MarramWind but no decision has been made on the ports to be used.

Certain port infrastructure improvements or expansions may be necessary to support MarramWind's construction and operation. These, along with other effects from port operations related to MarramWind, will be subject to assessment and will be authorised under separate consenting legislation.

Landfall

How landfall is constructed depends on the chosen landfall(s), coastline features, and other technical or environmental constraints.

The cables at landfall(s) will be buried and installed either by open cut construction or by HDD. Open cut construction involves digging a trench and laying the cables either directly into the trench or within a duct. The trench is then backfilled with excavated material. Cables may be installed in either a single operation or drawn through ducts at a later stage. A decision has not been made on a preferred solution, which will depend on further design work and local conditions.

At the shoreline, the maximum width of land required to install the cables will be 360m. The onshore part of the landfall(s) will include up to six underground transition joint bays where the offshore and onshore cables are joined together. The offshore cable laying vessel will approach the shore then the marine cables will be pulled into the transition joint bays by machinery within a temporary onshore construction compound.

This compound will be located above MHWS at the landfall(s). The land will be reinstated after completion of the construction phase. An inspection chamber or equivalent permanent access arrangement may be left in place at the transition joint bays. The location of the compound at the landfall(s) is still to be determined. Access to landfall construction sites may require temporary access routes and/or the strengthening of existing roadways. Construction vehicles accessing the temporary landfall construction areas will require access routes from the A90 for delivery and removal of construction materials.

Onshore

Onshore cables

The temporary cable construction corridor is expected to be 150m wide and will provide access to construction traffic, and space for cable assembly, trench excavation and storage space for excavated soil. The temporary corridor may require extending beyond this width in certain locations to provide space for access at crossings, avoidance of obstacles, and HDD.

Up to two main, temporary, construction compounds will be required close to the onshore cable corridor. These will be logistic hubs and will include welfare facilities, storage, accommodation buildings, materials, parking, and site offices. We will identify where these will be located through environmental and technical assessments and stakeholder engagement.

A number of temporary construction compounds will be required to enable the construction of joint bays and installation of underground cables.

Underground cables and associated ducts may be laid in either a single operation in trenches, or ducts may be installed in the trenches to allow the cables to be subsequently pulled through at a later stage. The trench is then backfilled. This approach removes the need to undertake repeat excavations. Following cable installation, haul roads and any construction compounds will be removed. Where it is necessary to cross sensitive features, such as watercourses, roads and railway crossings, trenchless construction methods such as HDD will be used to install ducts under the crossed feature. The cables are then pulled through via entry and exit pits.

The underground cables will be installed in sections. Joint bays will therefore be required at intervals along the cable route to enable the cable installation and connection process. These joint bays will be underground structures with a lift box located at or above ground level. Lift boxes enable electrical checks and testing to be carried out during operation.

Access for construction vehicles to the temporary construction areas along the cable corridor route will require temporary access routes from existing roads for the delivery and removal of construction materials.

Onshore substation infrastructure

The onshore substation infrastructure will require site preparation works, installation of foundations for cables, pipes and equipment, construction of substation buildings, installation and commissioning of electrical equipment, drainage, environmental mitigation and landscaping. The onshore substation infrastructure will be built within the designated site boundary over the anticipated eight to twelve year construction period (the expected period for the offshore infrastructure construction). Site access will be required, including for the delivery of construction materials and electrical components, so an access road(s) will be constructed. A temporary construction compound will also be required but will be dismantled and the land reinstated when the construction work is complete.

The majority of construction vehicles accessing the substation will include HGVs, concrete mixer trucks, and vans. However, there will be a small number of abnormal loads to enable the delivery of large electrical equipment such as the electrical transformers.

Onshore worker accommodation

The accommodation requirements for onshore construction workers will be carefully considered but are not yet determined. However, the potential effects on accommodation as well as local community facilities and services will be assessed as part of a socio-economic impact assessment. This approach ensures any potential effects on the community are identified and managed.

Listening to your feedback - construction considerations

You said... “...construction methods and installation should be efficient and limit disruption during construction.”	Our response... 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: <ul style="list-style-type: none"> careful planning and scheduling - we will develop a construction plan that optimises the sequence of activities, minimises construction traffic, and avoids peak times where possible; use of modern construction techniques - 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 effective communication and engagement - 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.
You said... “...there is concern about the number of companies involved in the development and the perceived detachment of the project infrastructure. The public should have been presented with a completed plan at consultation.”	Our response... 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. 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 offshore 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.



Tasitol HDG

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MarramWind in Operation

MarramWind is expected to begin generating electricity in the 2030s, with electrification in line with the relevant grid connection agreements up to the maximum grid connection capacity limit of 3GW.

Operational maintenance

When MarramWind is in operation, periodic testing of the onshore cables is likely to be carried out. This will require access to the link boxes along the cable route, which will involve attendance by light vehicles. The vehicles will gain access using existing held accesses.

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 used, depending on the type of wind turbine, floating platform, electrical transmission infrastructure, and layout of the windfarm.

Maintenance will typically be undertaken via a Service Operation Vessel. Helicopters or other specialised vessels may also be used where necessary to prevent damage to equipment, prevent and repair corrosion, and carry out all necessary repairs to maintain safe operation of the windfarm. For major component repair, it may be necessary to tow turbines to port, although technologies are being developed to prevent the need for this.

Approach to 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 risks associated with their removal. The onshore substation is likely to be removed and the site then reinstated.

We will develop the project in a sustainable manner and will consider both operation and decommissioning during design and development. The decommissioning works are likely to be undertaken in reverse of the construction process of MarramWind. A decommissioning programme will be developed to define the decommissioning methodologies that might be used. It will be updated prior to construction and updated during the operational phase of the project to account for any changes to industry best practice, relevant legislation and policy, or developments in technology.



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

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Benefits and Opportunities

MarramWind presents an opportunity to generate social, economic, and environmental value. ScottishPower and Shell are dedicated to delivering wider benefits, and leaving a positive legacy, particularly for communities in North-East Scotland.

We are developing several programmes to help maximise economic and social benefits, including working closely with other offshore wind developers and public sector partners to support the growth of Scotland's offshore wind industry. These will be over and above the programmes Shell and SPN already support.

Industry and Supply Chain

Scotland is a pioneer in floating wind, having delivered the world's first floating offshore windfarm, Hywind Scotland, and running the world's largest floating wind leasing round, ScotWind. We are committed to helping Scotland and the UK capitalise on this market-leading position, including sourcing key products and services from Scottish and UK companies, as outlined in the MarramWind Supply Chain Development Statement.

The project is currently set to spend most of its early project development expenditure within Scotland and the UK, having awarded key contracts to UK-registered and Scottish companies.

MarramWind will also create opportunities for new companies in the supply chain market, which will be an important area of focus for our planned £25m Offshore Wind Stimulus Fund.

ScottishPower and Shell have undertaken a range of activities to engage the supply chain and support the development of Scotland's offshore wind industry, including:

- running a supply chain opportunities event in Peterhead in November 2023 with the DeepWind cluster (the largest offshore wind representative body in Europe);
- meeting supply chain companies at national and regional industry conferences;
- launching the enhanced MarramWind Supplier Interest Portal in July 2024, used to help companies target future events, activities and contract opportunities;
- providing ongoing support to Scotland's Strategic Investment Model, which seeks to build the case for investment in vital new supply chain facilities and port infrastructure;
- supporting the development of a new Scottish Offshore Wind Energy Council study into the socioeconomic opportunities from Scottish offshore wind;
- engaging with Scotland's enterprise agencies; and
- continued engagement with public and private sector partners to explore opportunities to support the growth of Scotland's offshore wind industry.



MarramWind was pleased to deliver the MarramWind Supply Chain Opportunities event in Peterhead in November 2023.

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Employment and skills

The growth of Scottish offshore wind will create opportunities for people entering the workforce or pursuing a new career, particularly those from the oil and gas sector. MarramWind will increase demand for local labour when the opportunities from MarramWind are better known.

To help local communities take advantage of these opportunities, we will continue working with education facilities to support Science, Technology, Engineering and Maths (STEM) subjects to encourage interest from young people. We are exploring opportunities to support STEM and skills outreach activities, focused on raising awareness of future offshore wind career opportunities within North-East Scotland. These will build and expand upon our ongoing support for the

National Energy Skills Accelerator. Our renewed focus was informed by feedback to our first round of public consultation, where jobs and skills creation was the second highest priority when asked how the project could leave a positive legacy for the area.

Community Benefit Fund

ScottishPower and Shell take pride in being part of the communities surrounding our energy projects and we want the communities in North-East Scotland to benefit from a future powered by renewable energy. Feedback received during our first round of statutory consultation noted the creation of a Community Benefit Fund as the most important opportunity to support community projects and groups in the local area. Over the coming months and years, we will work with stakeholders to determine how such benefits will be delivered.

Listening to your feedback - remuneration considerations

You said... “...remuneration should be provided as a part of any agreement with residents who are affected by the substation/ general works.”	Our response... 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.
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Listening to your feedback - benefits and opportunities

You said... “...a scholarship should be created for local high schools e.g. Minlaw/Peterhead.”	Our response... 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.
You said... “...local communities should benefit from cheaper electricity and roads and associated infrastructure should be upgraded.”	Our response... 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 completed 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.

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Listening to your feedback - benefits and opportunities	
You said... "... a windfarm fund should be created with a fee for every MW produced, and only the interest should be spent in the first five years."	Our response... 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.
You said... "... the Community Benefit Fund should prioritise affected communities."	Our response... 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 MarramWind. Rather, it will be used to create a positive legacy and will help local communities benefit directly from opportunities created by the project.
You said... "... local suppliers should be used during construction."	Our response... 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 £5.5bn. 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 www.marramwind.co.uk



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Stakeholder Engagement

Stakeholder engagement and consultation is a critical part of the development of MarramWind. We are committed to developing an offshore windfarm in a considered way that is sensitive to the needs and expectations of local stakeholders and communities whilst creating long-lasting benefits and opportunities on a local and national level.

From the early stages of the development of MarramWind, we have been engaging extensively with a wide range of statutory and non-statutory stakeholders across the northeast of Scotland, as well as members of the local community. The engagement activities we have undertaken to date include:

- hosting a drop-in day for the local community to learn about the project and meet the team;
- attending the Hadding Offshore Wind conference in Aberdeen to build stronger coordination with other developers;
- hosting a supply chain event with the DeepWind cluster in Peterhead;
- meetings with local Councils;
- attending a fisheries awareness day with the Scottish Fishermen's Federation;
- organising an OffshoreWind4Kids event with Clerkhill Primary School;
- engaging with Buchan Development Partnership, which is an independent, community-led initiative working with communities across Buchan; and
- supporting Aberdeenshire Council's 2040 vision business development event.

Listening to your feedback - working other developers

You said...
"... there should be greater collaboration between developers delivering local energy projects to ensure they work together and understand interfaces between projects."

Our response...
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.

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 effects on the surrounding communities and environment are minimised as much as possible.



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Statutory consultation 1

Between 27 May and 1 July 2024, we delivered the first round of statutory consultation for MarramWind, which included online presentations and in-person events held in Peterhead and Longside. These events, as well as a virtual exhibition space on our website, gave members of the local community and other interested stakeholders the chance to provide feedback on our proposals and influence how the project is progressed. Dedicated engagement sessions were also offered to locally elected representatives, Community Councils, landowners, and fishing stakeholders, enabling them to have direct conversations with the project team.

Staying updated

For the latest information on MarramWind or to stay up to date with future engagement events, please visit our website www.marramwind.co.uk, scan the QR code or follow us on X at @MarramWind. If you have any questions not covered in the consultation materials, you can email us at stakeholder@marramwind.com.

Listening to your feedback - promotion of consultations

You said...
"... there should be more formal promotion of future consultations as it was felt that key areas did not receive notice about the consultation."

Our response...
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:

- a series of adverts and Notices placed in the Buchan Observer and Press & Journal in the weeks leading up to consultation launch and the events;
- digital adverts on the Buchan Observer's website;
- notifications via the MarramWind website and social media channels;
- a radio advert running for two weeks on the local radio station Orkney 106;
- posters displayed in local public buildings;
- emails and letters issued to statutory and non-statutory stakeholders and key community representatives including Community Councils, Councilors, MPs and MSPs; and
- a leaflet hand-delivered to over 12,000 properties within and neighbouring the project boundary.

We have adopted the same approach to promoting the second round of consultation as previously undertaken, however we are using Royal Mail to deliver leaflets for this consultation and covering a wider area than before.



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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 MarramWind offshore windfarm, we want you to share your feedback with us and let us know what you think. Your feedback is important to us and 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.
- Email us your comments at stakeholder@marramwind.com.
- Fill in a paper feedback form. These will be available throughout the consultation period at our two consultation events and at Peterhead Library.
- Write to us at FREEPOST MarramWind.

This consultation will run from **09 October 2024 to 11:59pm 19 November 2024**. Feedback received after the deadline may not be considered. We cannot respond to every response received individually.

We believe transparency in our decision making is important and we want to ensure that local stakeholders can see how their feedback has been considered in the development of the project's final design. We will present all feedback received at this consultation and the one we delivered earlier this year, and provide information on how it was considered, in a Pre-Application Consultation Report covering both onshore and offshore elements of the project. This will be published as part of our consent 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 applications, which we intend to submit in late 2025, you will have further opportunity to make representations to Aberdeenshire Council and the Scottish Government's Marine Directorate, who will determine whether to grant planning permission and other required consents for the Project.

Finding out more

All information related to the proposals is on our website www.marramwind.co.uk.

If you have any questions, including requesting materials in an alternative format, you can email stakeholder@marramwind.com.

Consultation events

We will be holding two public consultation events during the consultation, 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:

- Tuesday 29 October 2024, 1pm – 7pm, Palace Hotel, Prince St, Peterhead AB42 1PL.
- Wednesday 30 October 2024, 1pm – 7pm, Longside Football Club, Davidson Park/Station Rd, Peterhead AB42 4GR.

Online consultation event

We will also be hosting an online presentation about our proposals. This will be another opportunity for people interested in the proposed MarramWind offshore windfarm to find out about the project. The online presentation will take place on:

- Thursday 07 November 2024, 6pm – 7pm.

If you would like to join, please email stakeholder@marramwind.com.

Next steps

The feedback received as part of this consultation will be used to further refine the project design. We will share our finalised proposals next year and will provide further information on how the feedback received at this consultation has been considered.

We will submit our consent applications in 2025 to Aberdeenshire Council and the Marine Directorate who 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.

Glossary

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

Crown Estate Scotland: manages the Scottish Crown Estate on behalf of Scottish Ministers, including most of the seabed of 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 aerial surveys: photography taken from a plane to collect data on a variety of wildlife including birds, marine mammals and fish.

Ecological: relating to the environments of living things or to the relationships between 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 surroundings, living organisms, and people throughout its construction, operation, and eventual decommissioning.

Floating unit: a floating structure on which the wind turbine is installed, providing it with buoyancy and stability.

Gigawatt: a gigawatt (GW) is 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 usually lives.

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 works at 50 cycles per second. The majority of the UK electricity grid is HVAC.

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) that provides a recommended offshore and onshore 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.

Landfall: the point at which the cables transferring power from an offshore windfarm reach the shore.

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 tidal height throughout the year of two successive high waters during those periods of 24 hours when the range of the tide is at its greatest.

Mean low water springs (MLWS): the average tidal height throughout the year of two successive low waters during those periods of 24 hours when the range of the tide is at its least.

Net zero emissions: 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 resultant climate change.

Offshore cables: these are electrical power cables that are installed offshore, buried in or laid on the seabed between the wind turbines, and then run the electrical power cables from the wind turbines to the offshore substation and from there to the landfall(s).

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 transmitted from the offshore substation to the national grid. The onshore substation 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.

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Scoping Report: a document that sets out the project's understanding of consenting requirements and what the project intends the Environmental Impact Assessment report to cover.

ScottWind 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 windfarms, from manufacturing the wind turbines and cables to construction and 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 networks. Each wind turbine consists of a number of blades that connect to a rotor hub, which rotates an electrical generator.



5.1 Banners

MarramWind

Welcome

MarramWind is a proposed floating offshore windfarm located off the north-west coast of Aberdeenshire. This exciting project, one of the first commercial floating offshore windfarms in the world, has the potential to deliver up to three gigawatts (GW) of 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 Lease Agreement for the MarramWind offshore windfarm and since then we have been developing our proposals. From 28 May – 1 July 2024, we held our first round of statutory consultation, presenting our early proposals and inviting stakeholder feedback. We have continued to refine the project design to account for this feedback and are now presenting our updated proposals as part of our second round of statutory consultation, which runs from 3 October to 10 November 2024. As part of this consultation, we have illustrated how stakeholder feedback received during the first round of statutory consultation has been considered in the development of the project.

This second round of statutory consultation is another key milestone in the preparations for our Environmental Impact Assessment (EIA) and consent applications, which we intend to submit in autumn 2025. We now invite you to read the banners around this room and learn more about our updated proposals and share your views. Further information on our proposals can be found in the consultation booklet.



Your feedback is important and will help us to develop a final project design for submission as part of our consent applications to the relevant authorities. Information on how to respond to this consultation can be found on the 'Have Your Say' banner at the end of this exhibition.

ScottishPower is the first integrated energy company to generate 100% green electricity in the UK. Focused on wind energy, smart grids and driving the change to a greener future, ScottishPower is investing over £3m every working day to make this happen.



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MarramWind

Working Together for a Cleaner Future

ScottishPower and Shell have over 70 years' combined experience in Scotland's offshore environment, with over 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 a major provider of wind energy. Responsible for progressing Iberdrola Group's renewable energy projects in the UK, ScottishPower manages the development, construction and operation of windfarms throughout the world and currently has 45 operational windfarm sites generating over three gigawatts (GW) of renewable energy.

ScottishPower continues to be one of the leading renewable developers in the UK and is investing almost £3 billion between 2023-26 across offshore and onshore wind and solar generation, increasing home-grown green electricity 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 driving the change to a greener future, ScottishPower is investing over £3m every working day to make this happen.



About Shell

Shell has over 50 years of experience delivering complex offshore projects in the North Sea, and today employs around 1,200 in the North Sea of Scotland. Floating wind is a natural extension of our capabilities in deep offshore projects.

Shell today has more than 20GW of offshore wind capacity in operation and under construction. 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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MarramWind

About MarramWind Floating Offshore Windfarm


The proposed MarramWind floating 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 wind turbines will be barely visible from shore.

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

MarramWind is being developed with sustainability embedded as a core value, from design through to construction, operation and maintenance, and decommissioning.

MarramWind has defined a project search area boundary, shown in the map, which has been agreed since our first round of consultation. This does not show the final area this project will occupy but, allows us to work across a large area to identify the best locations for the project's infrastructure. It also ensures we can make adjustments in the project design.

The MarramWind project, generating up to 3GW of power, will connect to the national grid via the proposed Scottish and Southern Electricity Networks (SSEN) Netherston HUB substation to the west of Peterhead. This was committed by National Grid in their 2023 Network Design (NND) report and subsequent follow up searches. While the NND is a crucial step for renewable energy connection, it is part of a larger picture. The Beyond 2030 Report builds on the NND, setting out a clear, secure and affordable energy future throughout the 2030s. This ambitious plan aligns with the UK Government's ambition to have a fully decarbonised electricity system by 2035 and will support delivery of the projects licensed by Scottish.



Optimising Sustainability

We are adopting a strategic approach reflective of ScottishPower and Shell's sustainability targets. We have identified 'our sustainability key areas' as:

- 1. Emissions Reduction.**
- 2. Embedding Circularity** by using reusing and recycling resources and materials.
- 3. Nature Positive Development** which aims to ensure negative effects on biodiversity are avoided or mitigated and that the overall has an overall positive benefit on biodiversity.
- 4. Optimising Social and Economic Performance** by maximising the project's net economic effect while supporting local and regional economic profiles.

For each key priority area, we are reviewing options for enhancing sustainability. We will undertake studies to explore and select which options can be taken forward to help the environment and local communities.



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MarramWind

Consents

The consenting process

Under the Scottish Government's National Planning Framework 4, MarramWind is classified as a National Development. This means the wider the need for the project has been established through Government policy planning permission, marine licences and other consents or licences are still required for construction and operation. We will need to make separate applications for the following key onshore and offshore consents:

- **Section 56 consent**, under the Electricity Act 1989 (S56), is required for the offshore windfarm site. Permission is granted by the Marine Directorate (on behalf of Scottish Ministers), referred onwards as the Marine Directorate.
- **Marine licences**, under the Marine (Scotland) Act 2010 (p12-13) and the Marine and Coastal Access Act 2009 (12-200) (national map), the project is seeking marine licences. This is to undertake marine licensable activities including the installation of cables or other infrastructure on or within the seabed. Permission is granted by the Marine Directorate.
- **Onshore planning permission**, under the Town and Country Planning (Scotland) Act 1997 (TCPA) is required for all infrastructure located above the average level of low 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 MHWS and MLWS – this area is known as the intertidal zone. This consultation covers the project as a whole, including onshore, intertidal and offshore infrastructure.

Our first consultation, held earlier this year, was focused on key requirements set out in the TCPA. This second consultation will further fulfil the TCPA requirements, as well as the relevant marine licence requirements.

We will also be undertaking an EIA, which is the process of assessing the likely significant effects the project could have on the environment. We will also prepare a report to support a 'statutory Regulators Approval' (RFA). Further information on our EIA and RFA can be found in the 'Environmental Impact Assessment and Statutory Regulators Approval' banners.

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

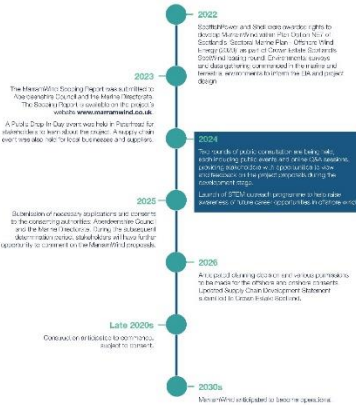


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Project Programme

Developing MarramWind involves significant work, but our priority is to deliver a project that minimises effects on local communities and the environment, while delivering renewable energy. 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.

Electricity transmission

The electricity generated by our turbines will be transmitted by cables to the onshore substation site and the national grid. We are exploring options for the electricity transmission, including High Voltage Alternating Current (HVAC) and High Voltage Direct Current (HVDC) transmission technologies, or a combination of the two.

The turbines will generate HVAC electricity, the same type distributed by the national grid. Due to the long distance of the cables, it is more effective to convert the HVAC transmission to HVDC transmission as HVDC cables have lower electrical losses. The electricity is converted back to HVAC at a converter substation onshore.

The infrastructure required for both options is broadly similar, but HVDC will require an offshore converter station. HVAC requires an offshore platform for equipment to stabilise the voltage of the electricity generated. Differences include the number and size of the cables needed to deliver power to the national grid.

The floating wind turbines

Turbine technology is advancing quickly so we have not chosen the turbine models 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 height of up to 100m, the windfarm is expected to have between 120 and 225 turbines, each with three blades. The maximum rotor diameter is expected to be around 225m. Navigational lighting will be installed on the turbines and floating units to reduce navigational risk and avoid risk.

Each turbine will sit on a floating unit, held in place by a mooring and anchoring system. These could be catenary, taut line or semi-taut moorings. Catenary moorings are more slack than other options, which is good for areas where the water depth changes, but the catenary can affect the spaced more. Taut line moorings have the tightest mooring lines which is good for stabilising the turbine. Semi-taut moorings are a combination of both. Decisions on the most appropriate option will take place once the project has further development.

Offshore platforms and substations

Offshore platforms house electrical infrastructure and connect the cables between the turbines with the cables that will transmit electricity to shore.

HVAC technology is used, equipment to support transmission may be required on offshore structures between the windfarm site and landfall (where the cables come onshore). An accommodation platform may also be required for staff.

Offshore cables

Cables will transmit electricity from the windfarm site to the onshore substation and then the national grid. The cables will be laid 1.2m below the seabed. In the low areas where the cables cannot be buried, other protective measures, such as concrete mattresses or rock berms (a layer of fragmented rocks laid over the cables) will be used to protect them.



Offshore Project Updates

Since our first round of consultation, we have been working to refine our offshore project design. We have also been preparing to undertake collision risk modelling to determine the risk to seabirds from the wind turbines and analysing geophysical and environmental data obtained from the surveys we undertook in 2022 and 2023 to better understand the marine environment.

The offshore boundary includes the windfarm site itself and a broad potential offshore cable corridor for cables and offshore infrastructure between the windfarm and the coast, as shown on the map below. The corridor sits within a wider offshore project search area, which will allow space for potential changes to the offshore cable corridor as a result of our assessment.



The windfarm site

The windfarm site covers the area of Plan Option NF7, which was identified for development by the Scottish Government's National Marine Plan - Offshore Wind Energy in 2020. The windfarm site is 60km² and has water depths ranging between 67m and 137m. Work is ongoing to determine the windfarm site layout and exact locations of the required infrastructure. We are considering environmental sensitivities, marine users, seabed conditions, water depths, and the presence of existing infrastructure. The layout is also being reviewed to enable co-existence with other projects such as those with fisheries in the region.

Offshore cable corridor

Cable routing work is also ongoing to identify the best route for the offshore cables between the windfarm site and landfall, on the coast. This considers environmental sensitivities that need to be avoided as well as factors that could limit the technical feasibility of installation. We are engaging closely with technical stakeholders, such as Natural Scotland, commercial fisheries groups, and the Marine and Coastal Agency to understand how MarramWind's construction and operation could interact with other marine users in Scottish waters and what we can do to reduce effects and maintain navigational safety.



Offshore Project Updates

Landfall

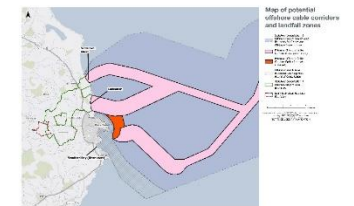
At our previous consultation, the potential landfalls of Scotstown Beach, Lundin and Sandford Bay were presented.

With consideration of environmental and technical assessments and stakeholder feedback, Scotstown Bay has been discounted. This is due to its proximity to the Buchan Ness to Collieston Coast Special Protection Area (SPA) - a designated breeding ground for seabirds and other projects in the vicinity that will limit space for cables and onshore infrastructure.

As the onshore approach to Scotstown Bay has been discounted, the southern edge of the offshore project search area boundary has also been reduced to show in the grey hatched area on the map. However, the southern cable corridor remains in place as it can form the connection to the Lundin landfall via a section around Peterhead (shown in orange on the map). This area is being explored for

feasibility but has not yet been surveyed. It is reserved to offer design flexibility. It is possible that the southern route and the orange connecting corridor will be discounted, but this is to be determined.

Scotstown Beach and Lundin are still suitable locations for landfalls from an environmental and technical perspective. It is possible that both will be taken forward, although the preferred solution is a single landfall. It is not possible to confirm this yet as we must ensure there is suitable space for the cables to come ashore, and for the onshore infrastructure. Within the chosen landfalls, a more refined aerial site will be identified where the offshore cables come onshore. These decisions will depend on further engineering and environmental considerations and technical surveys, stakeholder engagement, the location of other developments, the cable route itself, and the onshore substation location.



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Onshore Key Infrastructure

The onshore infrastructure includes an onshore substation and onshore cables. The onshore cables run from landfall to the onshore substation and subsequently to the point of connection at the SS2N Netherthorpe Hub substation.

Onshore cables

The cables will be laid underground within a cable corridor at an average depth of 1-2m. Points of access will be required along the cable route for maintenance of the cables during operation. It is expected that the work of the temporary onshore cable construction corridor for the underground cable will be approximately 130m. Following cable installation the project will require permanent access rights for maintenance purposes.

The substation infrastructure will comprise of outdoor and/or indoor high voltage electrical equipment, such as transformers, air change and, if necessary, equipment to convert HVDC into HVAC. A transformer is electrical equipment that helps change the level of electricity voltage. Switchgear is electrical equipment that helps connect and disconnect the circuits from the electricity network.

The substation infrastructure will vary in height, with the maximum approach height up to 32m. Indoor equipment will be housed in several buildings. Work is ongoing to identify the best technical and environmental solutions, which will determine final equipment requirements and the substation's size.

The substation site could cover up to 10 hectares of land. A temporary construction area of up to four hectares will also be required. Subject to the substation design, additional land will be required for drainage, environmental mitigation and landscaping.

To minimise the substation's visual effects, we have carefully considered the use of tree planting. Planting native tree species around the substation creates a green buffer that blends seamlessly with the surrounding landscape as the trees grow. The introduction of these green spaces would also support local wildlife and improve air quality.





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Onshore Project Updates

We are carrying out work to identify where the onshore cable corridor and substation will be located.

We are engaging closely with stakeholders to understand the potential effects from construction and operation and how to avoid or reduce these.

The current onshore project search area boundary has been refined from our first round of consultation. The effects:

- the shortening of two onshore substation options (B and C on the map) from five;
- the removal of Sandford Bay as a draft site;
- confirmation the project grid connection point will be in the dockland corner of the SS2N Netherthorpe Hub site; and
- refinement of the onshore cable corridor.

The map shows the search area around the grid connection point at the proposed SS2N Netherthorpe Hub, and the previous five substation site options. The map and layout for the substation will be smaller in size than shown by the map.

Based on the results of further environmental and technical assessments undertaken since the first round of consultation, and taking into consideration stakeholder feedback, substation options A, D and E have been removed as potential locations for the onshore substation.

These two cable corridors contain viable routes. The primary cable corridor is shorter and more direct, potentially reducing effects. However, there are other factors to consider, including stakeholder feedback and environmental and technical considerations that influence the selection of a preferred cable route.

The next step will be to identify a preferred onshore cable route.





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Environmental Impact Assessment

Before we can build MarramWind, we need to consider the potential effects on the environment and local communities. We are carrying out an EIA that will help us understand any potential environmental effects from MarramWind and how we can minimise them. Below you will find information on the potential effects we have identified and possible mitigation measures. Further information is available in our Consultation Report.

Offshore wildlife and habitats	We will conduct a survey to understand the potential effects on wildlife, including birds and fish. A Marine Environmental Survey will be carried out to understand the seabed and water column. This will help us understand the potential effects on wildlife and how we can minimise them. Below you will find information on the potential effects we have identified and possible mitigation measures. Further information is available in our Consultation Report.
Commercial fisheries	We will conduct a survey to understand the potential effects on commercial fisheries, including fish and shellfish. A Marine Environmental Survey will be carried out to understand the seabed and water column. This will help us understand the potential effects on commercial fisheries and how we can minimise them. Below you will find information on the potential effects we have identified and possible mitigation measures. Further information is available in our Consultation Report.
Shipping and navigation	We will conduct a survey to understand the potential effects on shipping and navigation, including the risk of collision with the wind turbines. A Marine Environmental Survey will be carried out to understand the seabed and water column. This will help us understand the potential effects on shipping and navigation and how we can minimise them. Below you will find information on the potential effects we have identified and possible mitigation measures. Further information is available in our Consultation Report.
Landscape and visual	We will conduct a survey to understand the potential effects on the landscape and visual environment, including the risk of visual intrusion from the wind turbines. A Marine Environmental Survey will be carried out to understand the seabed and water column. This will help us understand the potential effects on the landscape and visual environment and how we can minimise them. Below you will find information on the potential effects we have identified and possible mitigation measures. Further information is available in our Consultation Report.
Onshore wildlife and habitats	We will conduct a survey to understand the potential effects on onshore wildlife and habitats, including birds and fish. A Marine Environmental Survey will be carried out to understand the seabed and water column. This will help us understand the potential effects on onshore wildlife and habitats and how we can minimise them. Below you will find information on the potential effects we have identified and possible mitigation measures. Further information is available in our Consultation Report.
Onshore water environment	We will conduct a survey to understand the potential effects on the onshore water environment, including the risk of pollution from the wind turbines. A Marine Environmental Survey will be carried out to understand the seabed and water column. This will help us understand the potential effects on the onshore water environment and how we can minimise them. Below you will find information on the potential effects we have identified and possible mitigation measures. Further information is available in our Consultation Report.
Cultural heritage	We will conduct a survey to understand the potential effects on cultural heritage, including the risk of damage to archaeological sites. A Marine Environmental Survey will be carried out to understand the seabed and water column. This will help us understand the potential effects on cultural heritage and how we can minimise them. Below you will find information on the potential effects we have identified and possible mitigation measures. Further information is available in our Consultation Report.
Traffic and transport	We will conduct a survey to understand the potential effects on traffic and transport, including the risk of increased traffic from the construction and operation of the wind farm. A Marine Environmental Survey will be carried out to understand the seabed and water column. This will help us understand the potential effects on traffic and transport and how we can minimise them. Below you will find information on the potential effects we have identified and possible mitigation measures. Further information is available in our Consultation Report.
Air quality	We will conduct a survey to understand the potential effects on air quality, including the risk of increased emissions from the construction and operation of the wind farm. A Marine Environmental Survey will be carried out to understand the seabed and water column. This will help us understand the potential effects on air quality and how we can minimise them. Below you will find information on the potential effects we have identified and possible mitigation measures. Further information is available in our Consultation Report.
Noise and vibration	We will conduct a survey to understand the potential effects on noise and vibration, including the risk of increased noise from the construction and operation of the wind farm. A Marine Environmental Survey will be carried out to understand the seabed and water column. This will help us understand the potential effects on noise and vibration and how we can minimise them. Below you will find information on the potential effects we have identified and possible mitigation measures. Further information is available in our Consultation Report.
Greenhouse gases and climate change	We will conduct a survey to understand the potential effects on greenhouse gases and climate change, including the risk of increased emissions from the construction and operation of the wind farm. A Marine Environmental Survey will be carried out to understand the seabed and water column. This will help us understand the potential effects on greenhouse gases and climate change and how we can minimise them. Below you will find information on the potential effects we have identified and possible mitigation measures. Further information is available in our Consultation Report.
Accident	We will conduct a survey to understand the potential effects on accidents, including the risk of collisions with the wind turbines. A Marine Environmental Survey will be carried out to understand the seabed and water column. This will help us understand the potential effects on accidents and how we can minimise them. Below you will find information on the potential effects we have identified and possible mitigation measures. Further information is available in our Consultation Report.



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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 consultation also considered an HRA and:

- **Special Areas of Conservation** (including those designated but not yet formally designated), which are designated for the presence of "qualifying features". These may include rare or unusual species, habitats, geological or geomorphological features, or combinations of these.
- **Special Protection Areas (SPA)** (including those designated but not yet formally designated), which are designated for the presence of "qualifying features". These may include bird species that are rare, vulnerable, in danger of extinction, or requiring protection due to their faunal interests. Migratory bird species are also included as qualifying features in some SPAs, and
- **Ramsar 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 communities of birds.

MarramWind will be responsible for preparing a Report to inform Appropriate Assessment, which will be submitted to Aberdeen City Council and the Marine Directorate alongside the EIA to support the consenting applications. If necessary, this will provide information on the compensatory measures that could be delivered to reduce any risk to designated sites. The Report to inform Appropriate Assessment will be publicly available upon submission.



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How will MarramWind be built?

Project Programme

Construction works are anticipated to commence in the late 2020s, subject to consent. Given the scale of the project, construction may involve phased installation of both the onshore and offshore infrastructure over the course of the construction phase. It is anticipated that the infrastructure necessary for each phase will be installed sequentially. We will consider all options to minimise the impacts of a phased construction.

The total construction phase for the offshore infrastructure within the wind farm site, including the offshore wind turbines, is anticipated to be between eight and twelve years, but the time will be refined as details emerge about the project phasing design and supply chain availability. The offshore cables and landfalls associated with each phase of the wind farm will be installed towards the beginning of their phase's construction.

The role of ports

Ports are where component manufacturing, assembly, storage and/or marshalling (stacking) of vessels and heavy-lift services also depend on suitable ports.

We are developing a port strategy to help maximise economic, social and environmental benefits, e.g. job opportunities. We are dedicated to investing in Scottish port facilities to enhance their capabilities and support the offshore wind supply chain. By maintaining and investing in key port facilities, we will be supporting the growth of the Scottish offshore wind sector. No decision has been made on the ports to be used.



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How will MarramWind be built?

Landfall

The cables at landfall(s) will be buried and installed by open cut construction or HDD. Open cut construction involves digging a trench and laying the cables directly into it or within a duct. The trench is then backfilled. Cables may be installed in a single operation or drawn through ducts later on.

The maximum width of land required at the shoreline to install the cables will be 30m. The onshore part of the landfall will include up to six underground transition port bays where the offshore and onshore cables join together. The marine cables will be pulled into the transition port bays within a temporary onshore construction compound. The location of the compound is to be determined. An inspection chamber or equivalent permanent access arrangement may be left in place at the transition port bays.

Access to landfall construction sites may require temporary access routes and/or the strengthening of existing roadways.

Construction vehicles accessing the temporary landfall construction areas will require access routes from the A10.

Onshore

Onshore cables

The temporary cable construction corridor is expected to be 100m wide and will provide access to construction traffic, and space for cable assembly, trench excavation and storage. The temporary corridor may require extending in certain locations for access at crossings, avoidance of obstacles, and HDD.

Up to two main temporary construction compounds will be required but their locations are to be determined. These will be logistic hubs and will include welfare facilities, storage, accommodation building materials, parking, and site offices.

A number of temporary construction compounds will be required to enable the construction of port bays and installation of underground cables.

Underground cables and associated ducts may be laid in either a single operation in trenches, or ducts allowing the cables to be pulled through later. The trench is then backfilled. Main roads and construction compounds will then be removed. Where we need to cross sensitive features, (e.g. watercourses, crops or rail lines) boreholes construction methods such as HDD will be used. Ducts will be installed and the cables are then pulled through.

The cables will be installed in sections, joint bays will be required along the cable route to enable the cable installation and connections. These are underground structures with a link box located at or above ground level. Link boxes enable electrical checks and testing to be carried out during operation.

Access for construction vehicles will require temporary access routes.

Onshore substation infrastructure

The substation infrastructure will require site preparation works, installation of various infrastructure, drainage, environmental mitigation and landscaping. The substation infrastructure will be built within the site boundary over an anticipated eight to twelve years (the expected period for the offshore infrastructure construction). An access road(s) will be constructed and a temporary construction compound will be required but will be dismantled and the land reinstated.

Most construction vehicles will be LGVs, concrete mixer trucks, and vans. However, there will be a small number of abnormal loads for large electrical equipment.

Onshore worker accommodation

The accommodation requirements for onshore construction workers are yet to be determined. The potential effects on accommodation and local community facilities and services will be assessed.



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MarramWind in Operation

MarramWind is expected to begin generating electricity in the 2030s, with electrification in line with the relevant grid connection agreements up to the maximum grid connection capacity limit of 3GW.

Operational maintenance

When MarramWind is in operation, periodic testing of the offshore cables is likely to be required. Infrequently, equipment may need to be maintained or replaced and HV/GVs may be used.

The onshore substation is unlikely to be permanently started, although some maintenance and operations visits will be required. Infrequently, equipment may need to be maintained or replaced and HV/GVs may be used.

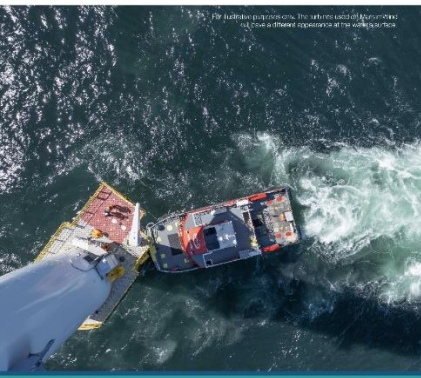
For the offshore elements of MarramWind, maintenance requirements will depend on the infrastructure used, depending on the type of wind turbine, floating platforms, electrical transformer infrastructure, and final layout of the windfarm.

Maintenance will typically be undertaken via a Service Operation Vessel, helicopter or other specialised vessels may also be used where necessary to prevent damage to equipment, prevent and repair corrosion, and carry out any necessary repairs to maintain safe operation of the windfarm. For major component repair, it may be necessary to tow turbines to port, although technology is being developed to prevent the need for this.

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 risks associated with their removal. The offshore substation is likely to be removed and the site then reinstated.

We will develop the project in a sustainable manner and will consider both construction and decommissioning during design and development. The decommissioning works are likely to be undertaken in reverse of the construction process of MarramWind. A decommissioning programme will be developed to define the decommissioning methodologies that might be used. It will be updated prior to construction and updated during the operational phase of the project to account for any changes to industry best practice, relevant legislation and policy, or developments in technology.



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Benefits and Opportunities

MarramWind presents an opportunity to generate social, economic, and environmental value. Scottish Power and Shell are dedicated to delivering wider benefits, and leaving a positive legacy, particularly for communities in North-East Scotland.

We are developing several programmes to help maximise economic and social benefits, including supporting the growth of Scotland's offshore wind industry, and allow the programme, Shell and SP already support

- supporting the development of a new Scottish Offshore Wind Energy Council study into the opportunities;
- engaging with Scotland's enterprise agencies; and
- continued engagement with public and private sector partners to explore opportunities.

Industry and Supply Chain

Scotland is a pioneer in 'floating' wind. We are committed to helping Scotland and the UK capitalise on this market leading position, including sourcing key products and services from Scottish and UK companies, as outlined in the MarramWind Supply Chain Development Statement.

The project is currently set to spend most of its early project development expenditure within Scotland and the UK, having awarded key contracts to UK-regulated and Scottish companies. MarramWind will also create opportunities for new companies in the supply chain market, which will be an important area of focus for our planned 100m Offshore Wind Stimulus Fund.

Scottish Power and Shell have already been engaging with the supply chain and supporting the development of Scotland's offshore wind industry, including:

- running a supply chain event in Peterhead in November 2023
- meeting supply chain companies;
- launching the enhanced MarramWind Supplier Interest Portal in July 2024, used to help companies target future events, activities and contract opportunities;
- providing support to Scottish Strategic Investment Model, which builds the case for investment in vital new supply chain facilities and port infrastructure;

- Supporting the development of a new Scottish Offshore Wind Energy Council study into the opportunities;
- engaging with Scotland's enterprise agencies; and
- continued engagement with public and private sector partners to explore opportunities.

Employment and skills

The growth of Scottish offshore wind will create opportunities for people among the workforce or pursuing a new career. MarramWind will increase demand for local labour when the opportunities are better known.

To help local communities take advantage of these opportunities, we will continue working with education facilities to encourage interest from young people. We are exploring opportunities to support skills outreach activities and raise awareness of future offshore wind career opportunities within North-East Scotland. These will build upon our ongoing support for the National Energy Skills Accelerator.

Community Benefit Fund

Scottish Power and Shell have a role in being part of the community's surrounding our energy projects and we want the communities in North-East Scotland to benefit from a future powered by renewable energy. Feedback received at our first round of statutory consultation highlighted the creation of a Community Benefit Fund as the most important opportunity. Going forward, we will work with local citizens to determine how such benefits will be delivered.



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Stakeholder Engagement

Stakeholder engagement and consultation is a critical part of the development of MarramWind. We are committed to developing an offshore windfarm in a considered way that is sensitive to the needs and expectations of local stakeholders and communities whilst creating long-lasting benefits and opportunities.

From the early stages of MarramWind's development, we have been engaging with a wide range of statutory and non-statutory representatives, and members of the local community. The engagement activities we have undertaken to date include:

- hosting a drop-in day for the local community to learn about the project and raise its issues
- attending the Floating Offshore Wind conference in Aberdeen to build stronger coordination with other developers
- hosting a supply chain event with the DeepWind cluster in Peterhead
- meeting with local Councils/Bor
- attending a fisheries awareness day with the Scottish Fisheries Reclamation
- organising an Offshore Wind event with Oban Hill Primary School
- engaging with Buccarie Development Partnership, which is an independent, community-led initiative working with communities across Buccarie
- supporting Aberdeenshire Council's 2040 vision business development event

Statutory consultation 1
Between 27 May and 1 July 2024, we held the first round of statutory consultation for MarramWind, which included online presentations and in-person events. These events, as well as a virtual exhibition space on our website, gave stakeholders the chance to provide feedback on our proposals and influence how the project progressed.

Dedicated engagement sessions were also offered to locally elected representatives, Community Councils, town/councils, and fishing stakeholders, enabling them to have direct conversations with the project team.

Staying updated

For the latest information on MarramWind or to stay up to date with future engagement events, please visit our website www.marramwind.co.uk, scan the QR code or follow us on X at @MarramWind. If you have any questions not covered in the consultation materials, you can email us at stakeholder@marramwind.com



Have Your Say

Providing your feedback

Thank you for taking the time to read through our process. Now that you have more information, we want you to share your feedback. Your feedback is important to us and 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
- Email us your comments at stakeholder@marramwind.com
- Fill in a paper feedback form. These will be available throughout the consultation at our two consultation events and at Peterhead Library.
- Write to us at FREEPOST MarramWind. The consultation will run from **08 October 2024 to 11:59pm 19 November 2024**. Feedback received after the deadline may not be considered. We cannot respond to every response received individually.

We believe transparency in our decision making is important and we want to ensure that local stakeholders can see how their feedback has been considered in the development of the final design. We will present feedback received at both our consultations, and provide information on how it was considered, in a Pre-Application Consultation Report which will be published as part of our consent applications.

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 applications, which we intend to submit in late 2025, you will have further opportunity to make representations to Aberdeenshire Council and the Scottish Government's Marine Directorate, who will determine whether to grant planning permission and other required consents for the Project.

Finding out more

An information relay to the process is on our website www.marramwind.co.uk.

If you have any questions, including requesting materials in an alternative format, you can email stakeholder@marramwind.com

Consultation events

We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.

The events will take place on:

- **Tuesday 29 October 2024, 10am – 7pm**, Peacock Hotel, Prince St, Peterhead AB42 1PL
- **Wednesday 30 October 2024, 10am – 7pm**, Longstone Football Club, Dawson Road, Station Rd, Peterhead AB42 4QR

Online consultation event

We will also be hosting an online presentation about our proposals on:

- **Thursday 07 November 2024, 6pm – 7pm**

If you would like to join, please email stakeholder@marramwind.com

Next steps

The feedback received as part of this consultation will be used to further refine the project design. We will share our refined proposals next year and will provide further information on how the feedback received at this consultation has been considered.

We will submit our consent applications in 2025 to Aberdeenshire Council and the Marine Directorate who 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.



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You Said...

Stakeholder feedback is very important to us as it helps to further develop our project design. All responses received during our first round of consultation, held earlier this year, have been considered. Details of these and our responses to that feedback are provided here.

Listening to your feedback - planning for the future

You said...
• **Marine Scotland could consider the impact of the project on the marine environment.**

Our response...
We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.

Listening to your feedback - protecting and enhancing marine environment

You said...
• **Marine Scotland could consider the impact of the project on the marine environment.**

Our response...
We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.

Listening to your feedback - surveying crabs and lobsters

You said...
• **Marine Scotland could consider the impact of the project on the marine environment.**

Our response...
We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.

Listening to your feedback - your key landfill concerns

You said...
• **Marine Scotland could consider the impact of the project on the marine environment.**

Our response...
We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.

Listening to your feedback - working with other developers

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Our response...
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We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.

You said...
• **Marine Scotland could consider the impact of the project on the marine environment.**

Our response...
We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.

You said...
• **Marine Scotland could consider the impact of the project on the marine environment.**

Our response...
We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.



You Said...

Stakeholder feedback is very important to us as it helps to further develop our project design. All responses received during our first round of consultation, held earlier this year, have been considered. Details of these and our responses to that feedback are provided here.

Listening to your feedback - your key onshore concerns

You said...
• **Marine Scotland could consider the impact of the project on the marine environment.**

Our response...
We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.

Listening to your feedback - protecting and enhancing marine environment

You said...
• **Marine Scotland could consider the impact of the project on the marine environment.**

Our response...
We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.

Listening to your feedback - surveying crabs and lobsters

You said...
• **Marine Scotland could consider the impact of the project on the marine environment.**

Our response...
We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.

Listening to your feedback - your key landfill concerns

You said...
• **Marine Scotland could consider the impact of the project on the marine environment.**

Our response...
We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.

Listening to your feedback - working with other developers

You said...
• **Marine Scotland could consider the impact of the project on the marine environment.**

Our response...
We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.

You said...
• **Marine Scotland could consider the impact of the project on the marine environment.**

Our response...
We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.

You said...
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Our response...
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You said...
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Our response...
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You said...
• **Marine Scotland could consider the impact of the project on the marine environment.**

Our response...
We will be holding two public consultation events during the consultation. Members of our project team will be available to provide more information and answer any questions.



You Said...

Listening to your feedback - landscape and visual considerations

You said...
The visual impact of the proposed development is likely to be significant, particularly in the context of the surrounding landscape.

Our response...
The visual impact of the proposed development is likely to be significant, particularly in the context of the surrounding landscape. We have taken steps to mitigate this impact, including the use of screening and landscaping.

You said...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape.

Our response...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape. We have taken steps to mitigate this impact, including the use of screening and landscaping.

You said...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape.

Our response...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape. We have taken steps to mitigate this impact, including the use of screening and landscaping.

Listening to your feedback - protecting and enhancing onshore environment

You said...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape.

Our response...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape. We have taken steps to mitigate this impact, including the use of screening and landscaping.

Listening to your feedback - onshore water environment considerations

You said...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape.

Our response...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape. We have taken steps to mitigate this impact, including the use of screening and landscaping.

Listening to your feedback - climate considerations


You said...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape.

Our response...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape. We have taken steps to mitigate this impact, including the use of screening and landscaping.

Further information on our responses can be found in our consultation booklet.



marramwind.co.uk



You Said...

Listening to your feedback - traffic and transport considerations

You said...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape.

Our response...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape. We have taken steps to mitigate this impact, including the use of screening and landscaping.

You said...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape.

Our response...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape. We have taken steps to mitigate this impact, including the use of screening and landscaping.

You said...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape.

Our response...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape. We have taken steps to mitigate this impact, including the use of screening and landscaping.

Listening to your feedback - construction considerations

You said...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape.

Our response...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape. We have taken steps to mitigate this impact, including the use of screening and landscaping.

Listening to your feedback - remuneration considerations

You said...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape.


Our response...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape. We have taken steps to mitigate this impact, including the use of screening and landscaping.

Listening to your feedback - benefits and opportunities

You said...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape.

Our response...
The proposed development is likely to be visually intrusive, particularly in the context of the surrounding landscape. We have taken steps to mitigate this impact, including the use of screening and landscaping.

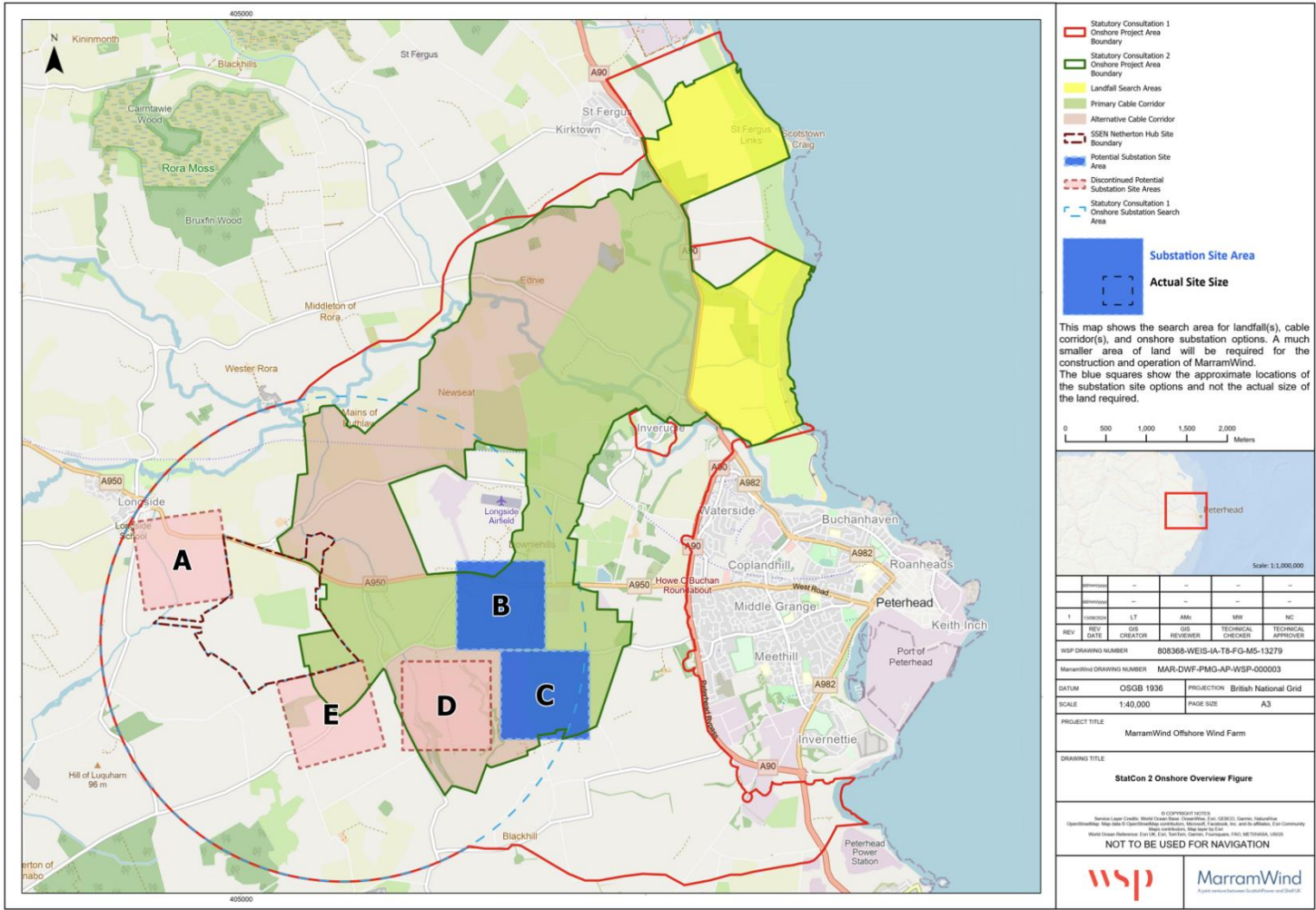
Further information on our responses can be found in our consultation booklet.



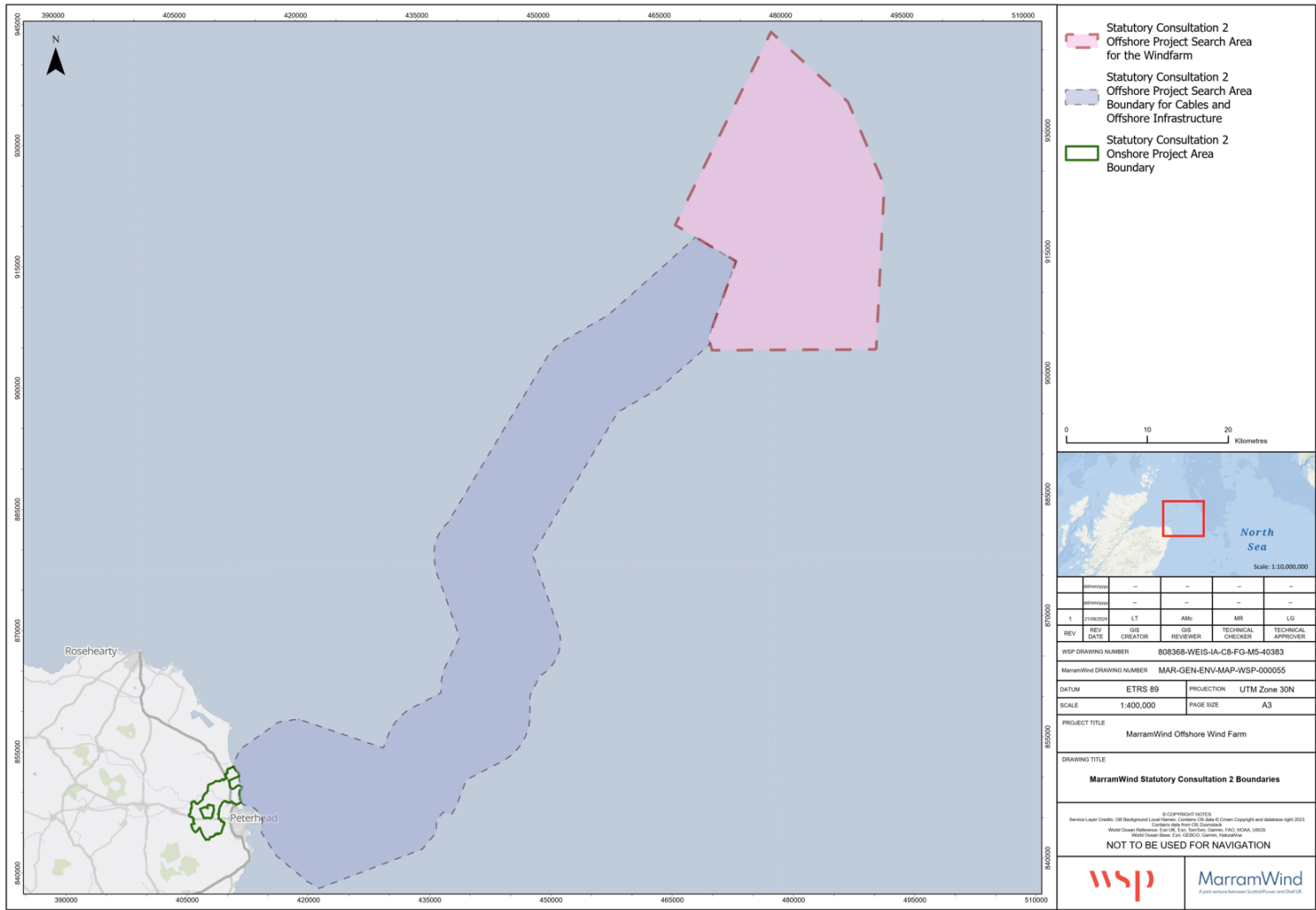
marramwind.co.uk

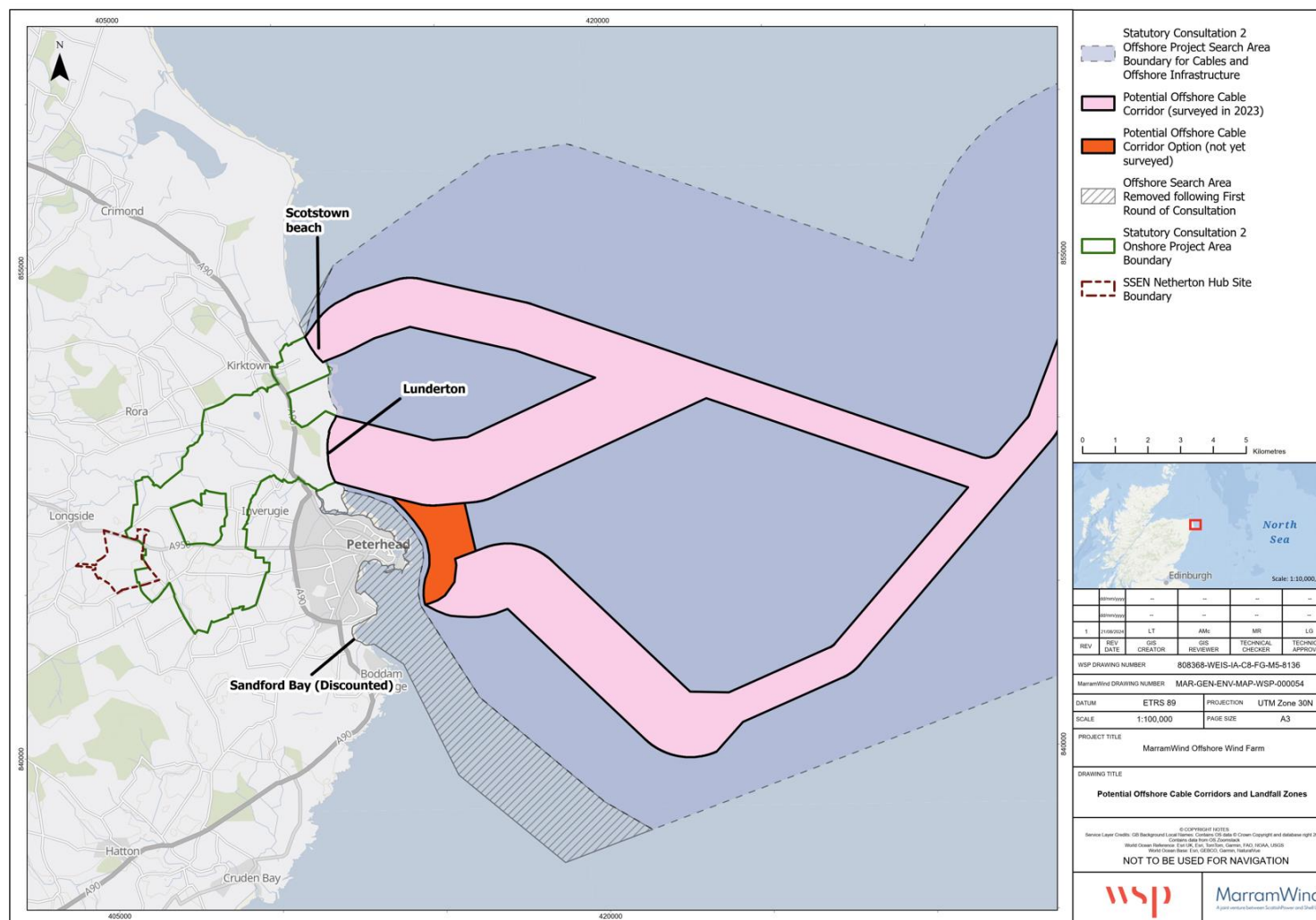
5.2 Maps

5.2.1 Statutory Consultation 2 onshore overview figure

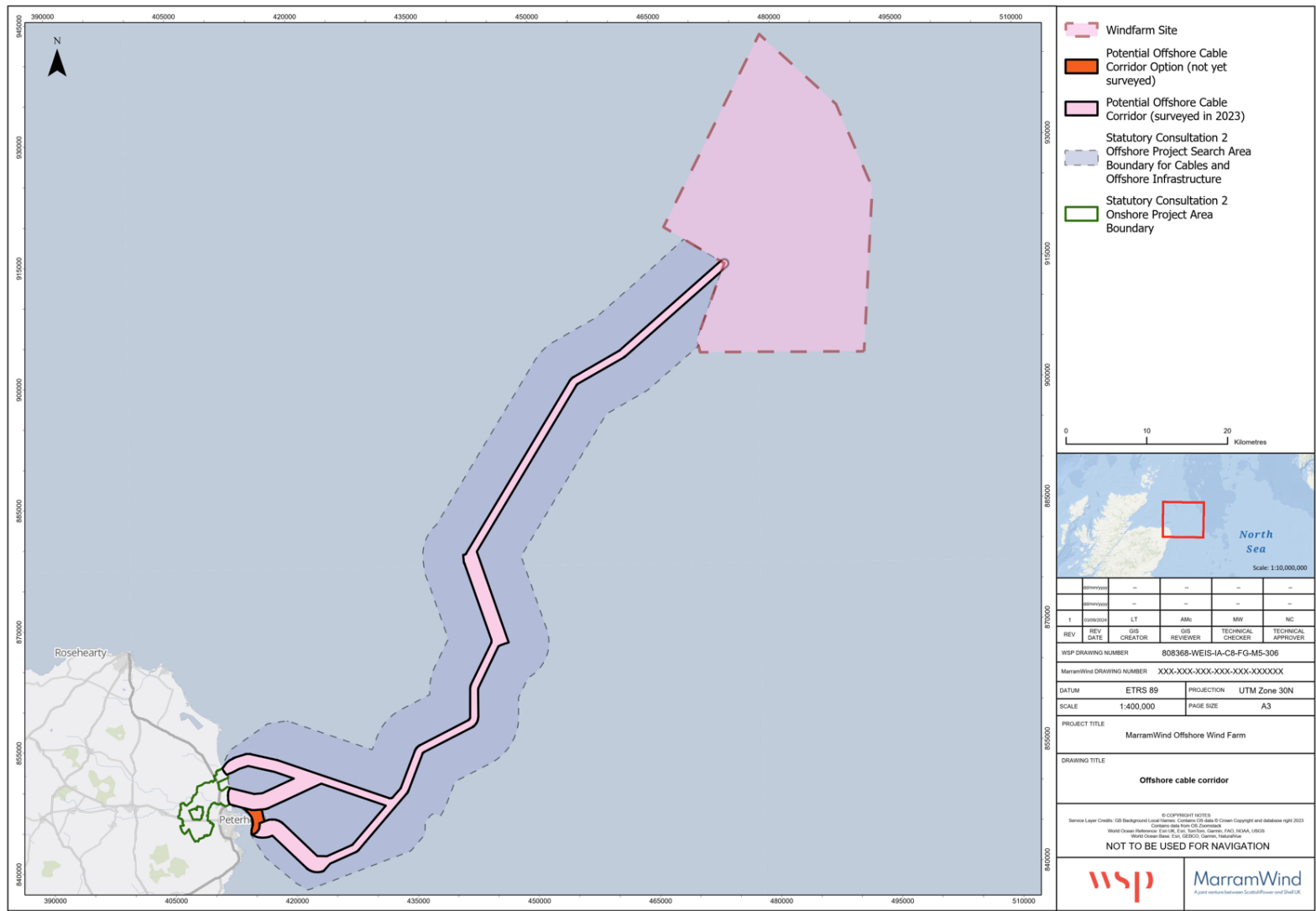


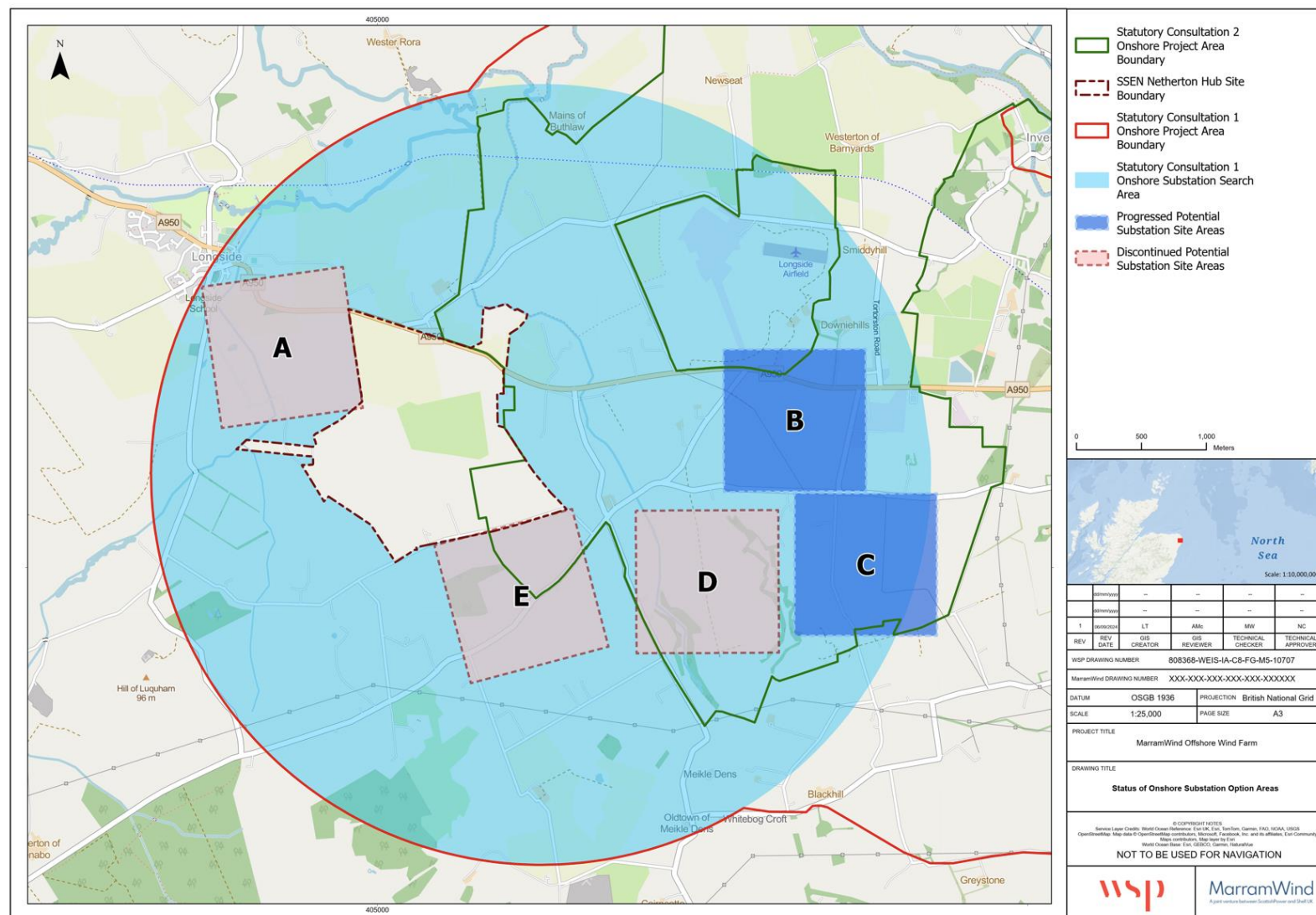
5.2.2 MarramWind Statutory Consultation 2 boundaries



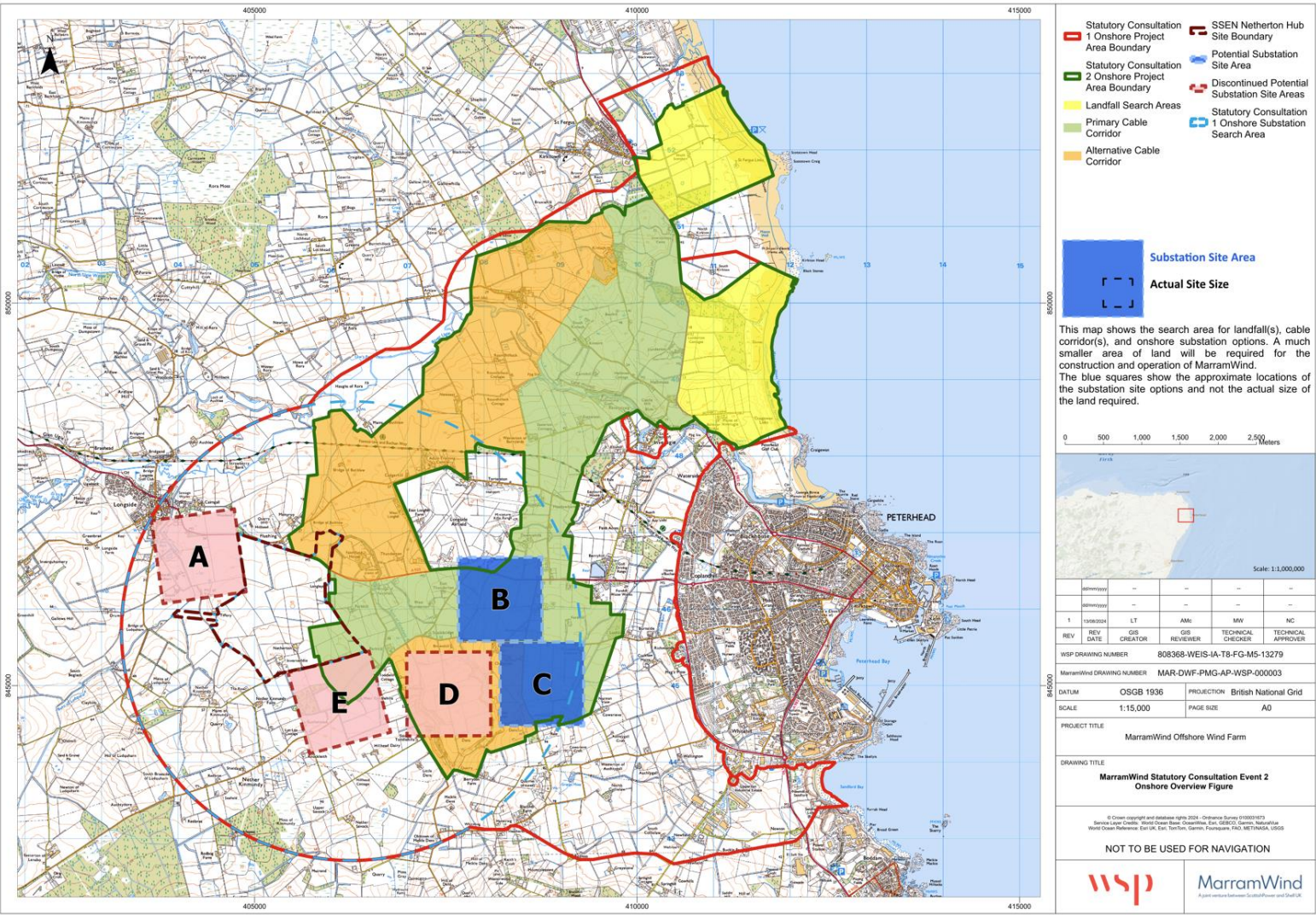


5.2.4 Offshore cable corridor





5.2.6 MarramWind Statutory Consultation event 2 onshore overview figure



5.2 Questionnaire

Page 1 of 7



MarramWind Offshore Windfarm

Statutory Consultation Two Feedback Form

Thank you for taking the time to read through our updated 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 next stage in the development process.

This feedback form is one of the ways in which you can get involved, so we invite you to have your say and help us refine our proposals. Please submit your response to us by **11:59pm on 19 November 2024**. Following the submission of our consent applications, which we intend to submit in 2025, you will have further opportunity to make representations to Aberdeenshire Council and the Marine Directorate, who will determine whether to grant 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

Offshore

This section focuses on the proposed offshore project design and infrastructure (including wind turbines, platforms and cables), as presented on pages 8 to 12 of the consultation booklet.

1. With consideration to our updated proposals for the offshore project design and infrastructure, which of the following aspects are most important to you?

Please select your top three.

- | | |
|--|--|
| <input type="checkbox"/> Air quality | <input type="checkbox"/> Amenity, recreation and tourism |
| <input type="checkbox"/> Aviation | <input type="checkbox"/> Construction methods and installation |
| <input type="checkbox"/> Commercial fisheries | <input type="checkbox"/> Environmental protection |
| <input type="checkbox"/> Heritage and archaeology | <input type="checkbox"/> Marine habitats |
| <input type="checkbox"/> Marine wildlife, including birds | <input type="checkbox"/> Noise |
| <input type="checkbox"/> Operation and decommissioning | <input type="checkbox"/> Shipping and navigation |
| <input type="checkbox"/> Seascape, landscape and visual considerations | |
| <input type="checkbox"/> Socio-economics and opportunities | |
| <input type="checkbox"/> Sustainability and climate change | |
| <input type="checkbox"/> Other (please specify) | |

2. Please explain the reason for your answer to Question 1

3. Are there any specific environmental, social or economic sensitivities related to the updated offshore project design or infrastructure that you wish to provide feedback on? Please share with us anything you feel we should consider as we develop the project e.g. sensitive areas, species, or community interests.

Landfall(s)

This section focuses on the proposed landfall(s) project design and infrastructure, as presented on pages 12 to 13 of the consultation booklet.

4. With consideration to our updated proposals for landfall options (Scotstown Beach and Lunderton), which of the following aspects are most important to you?

Please select your top three.

- | | |
|---|--|
| <input type="checkbox"/> Air quality | <input type="checkbox"/> Amenity, recreation and tourism |
| <input type="checkbox"/> Coastal protection | <input type="checkbox"/> Construction methods and installation |
| <input type="checkbox"/> Commercial fisheries | <input type="checkbox"/> Environmental protection |
| <input type="checkbox"/> Flood risk and water resources (rivers, lochs, water supply) | |
| <input type="checkbox"/> Intertidal habitats | <input type="checkbox"/> Intertidal wildlife, including birds |
| <input type="checkbox"/> Heritage and archaeology | <input type="checkbox"/> Noise |
| <input type="checkbox"/> Operation and decommissioning | <input type="checkbox"/> Traffic and transport |
| <input type="checkbox"/> Shipping and navigation | <input type="checkbox"/> Seascape, landscape and visual considerations |
| <input type="checkbox"/> Socio-economics and opportunities | <input type="checkbox"/> Sustainability and climate change |
| <input type="checkbox"/> Other (please specify) _____ | |

5. Please explain the reason for your answer to Question 4

6. Are there any specific environmental, social or economic sensitivities related to the landfall project design or infrastructure that you wish to provide feedback on?

Please share with us anything you feel we should consider as we develop the project e.g. sensitive areas, species, or community interests.

Onshore

This section focuses on the proposed onshore project design and infrastructure (including cables and substation) as presented on pages 15 to 20 of the consultation booklet.

7. With consideration to our updated proposals for the onshore project design and infrastructure, which of the following aspects are most important to you?

Please select your top three.

- | | |
|---|--|
| <input type="checkbox"/> Air quality | <input type="checkbox"/> Amenity, recreation and tourism |
| <input type="checkbox"/> Construction methods and installation | <input type="checkbox"/> Environmental protection |
| <input type="checkbox"/> Flood risk and water resources (rivers, lochs, water supply) | |
| <input type="checkbox"/> Landscape and visual considerations | <input type="checkbox"/> Heritage and archaeology |
| <input type="checkbox"/> Noise | <input type="checkbox"/> Onshore ecology habitats |
| <input type="checkbox"/> Onshore wildlife, including birds | <input type="checkbox"/> Operation and decommissioning |
| <input type="checkbox"/> Traffic and transport | <input type="checkbox"/> Socio-economics and opportunities |
| <input type="checkbox"/> Sustainability and climate change | |
| <input type="checkbox"/> Other | |

8. Please explain the reason for your answer to Question 7

9. Are there any specific environmental, social or economic sensitivities related to the onshore project design or infrastructure that you wish to provide feedback on?

Please share with us anything you feel we should consider as we develop the project
e.g. sensitive areas, species, or community interests.

10. If MarramWind was to implement a Community Benefit Fund, what sort of projects would you want to see funded?

12. Based on the information presented in this consultation, how would you describe your understanding of the MarramWind project?

13. If you attended one of our in-person consultation events or online Q&A sessions, how would you rate your overall satisfaction?

14. If there is anything you hoped or expected to learn about MarramWind at this consultation that we did not present, please share.

Please select 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) and SPR (www.scottishpowerrenewables.com/pages/privacy) in respect of how your data will be processed.

16. Where do you live?

Please select one.

- | | | |
|------------------------------------|-------------------------------------|-----------------------------------|
| <input type="checkbox"/> Burnhaven | <input type="checkbox"/> Boddam | <input type="checkbox"/> Flushing |
| <input type="checkbox"/> Longside | <input type="checkbox"/> Kirktown | <input type="checkbox"/> Mintlaw |
| <input type="checkbox"/> Peterhead | <input type="checkbox"/> St. Fergus | |
| <input type="checkbox"/> Other | ----- | |

17. Please tick the following, as appropriate to your status

- | | |
|--|---|
| <input type="checkbox"/> Local resident | <input type="checkbox"/> Landowner |
| <input type="checkbox"/> Local business owner | <input type="checkbox"/> Interested in supply chain opportunities |
| <input type="checkbox"/> Community Council | <input type="checkbox"/> Elected representative |
| <input type="checkbox"/> Member of fishing community | <input type="checkbox"/> Energy sector |
| <input type="checkbox"/> Other | ----- |


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.

5.3 Online Q&A presentation



Second Statutory Consultation

Q&A



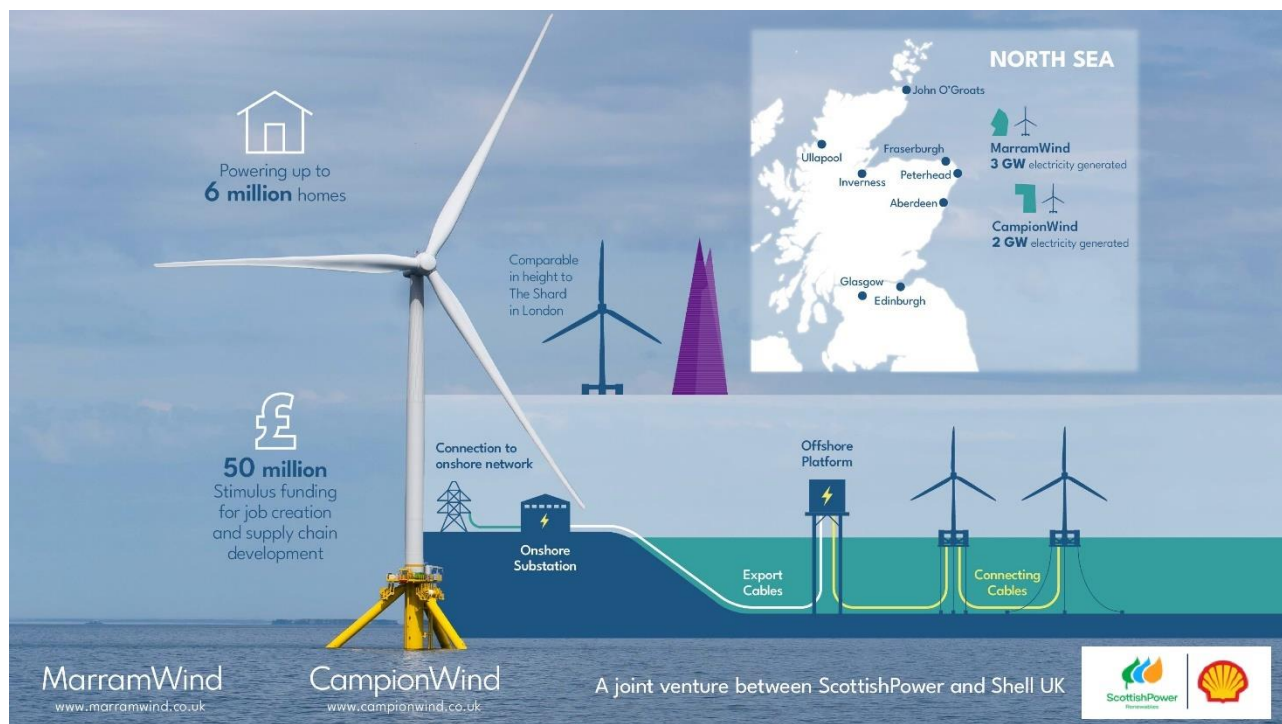
Agenda

Timings	Content
18:00 – 18:05	Introduction & Welcome Ross Williams, Stakeholder Manager
18:05 – 18:10	Project Overview Richard Eakin, Project Director
18:10 – 18:20	Developing MarramWind Colin Anderson, Development Manager
18:25 – 18:40	Supply Chain Development Ian McDonald, Supply Chain Development Manager
18:40 – 19:00	Q&A

MarramWind

Project Overview

Richard Eakin, Project Director



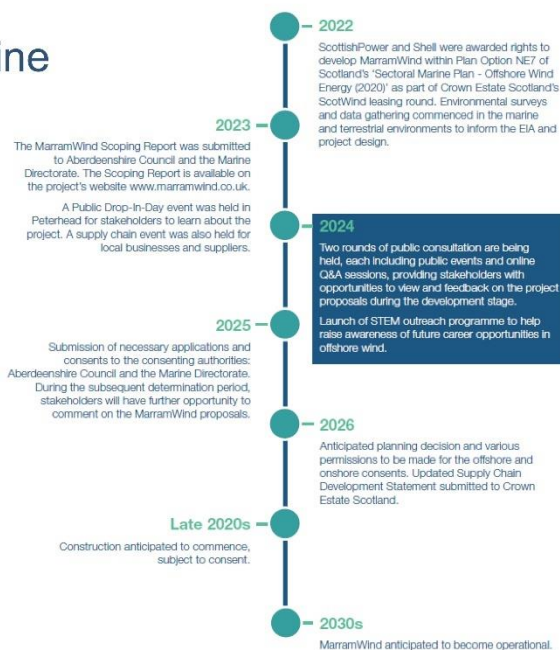
MarramWind 

Developing MarramWind

Colin Anderson, Development Manager



Project Timeline

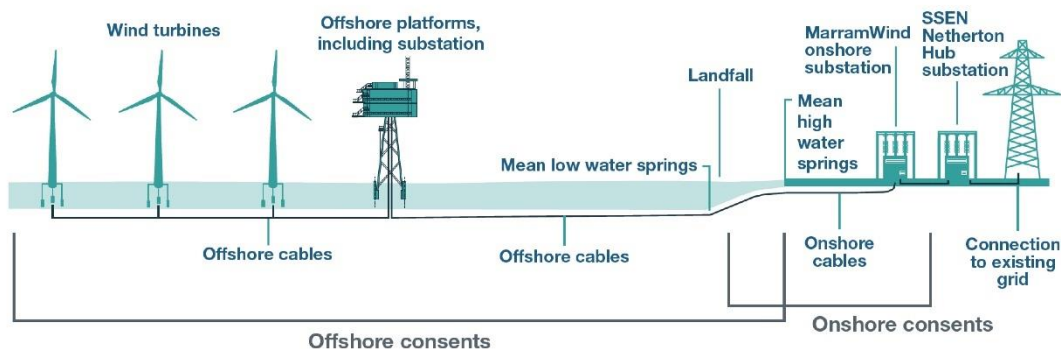


MarramWind 



Developing MarramWind

The consenting process



MarramWind

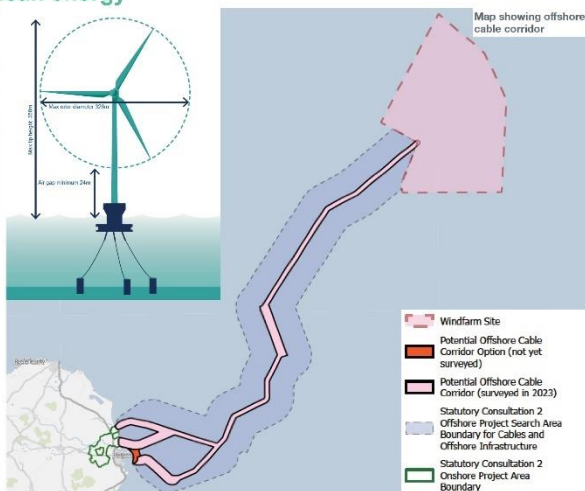
ScottishPower
Renewables



Offshore infrastructure

The windfarm expects 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*



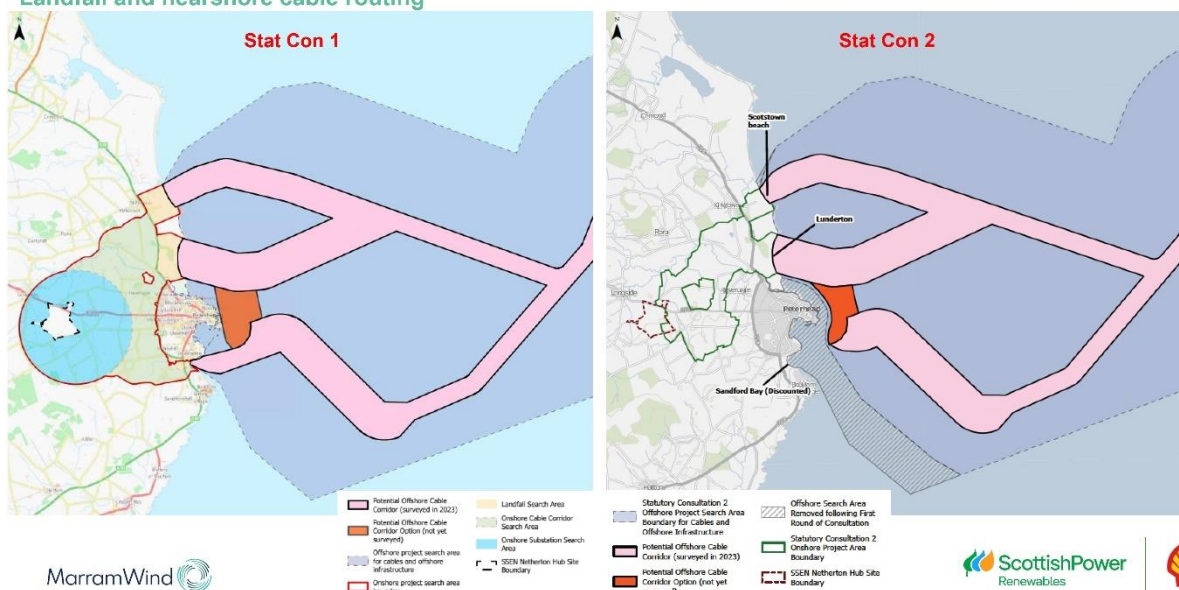
MarramWind

ScottishPower
Renewables



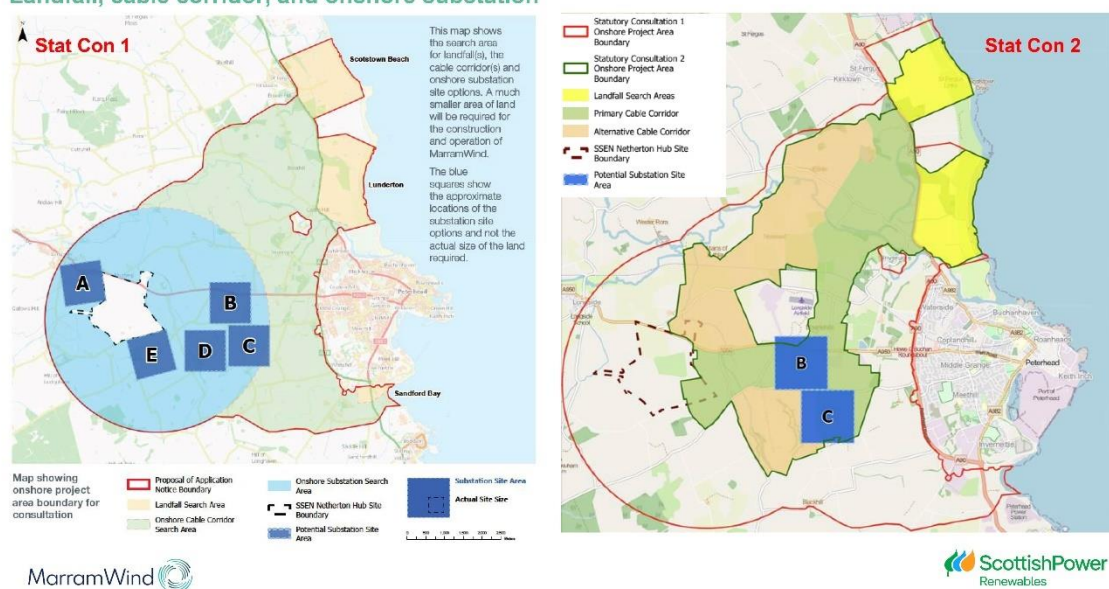
Offshore infrastructure (ctd)

Landfall and nearshore cable routing



Onshore infrastructure

Landfall, cable corridor, and onshore substation





Supply Chain Development

Ian McDonald, Supply Chain Development Manager



Supply Chain Development

Supporting the Scottish and UK Offshore Wind Industry

ScottishPower and Shell are committed to leaving positive, lasting legacy from MarramWind. We have committed to making **£25m** available via an Offshore Wind Stimulus Fund, which will be used to support investment in supply chain infrastructure, facilities, innovation and upskilling, to help Scotland's businesses and communities maximise the socioeconomic benefits of offshore wind.

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

The project team have already undertaken a range of activities to engage the supply chain and support the development of Scotland's offshore wind industry, including:

- Running a supply chain opportunities event in Peterhead in November 2023 with the **DeepWind** cluster;
- Launching an updated **MarramWind Supplier Interest Portal** in July 2024, which will be used to help notify supply chain companies of future events, activities and contract opportunities; and
- Providing ongoing support to Scotland's **Strategic Investment Model**, which seeks to build the case for investment in vital new supply chain facilities and port infrastructure.



Supply Chain Partners

Over £110m invested to date, including circa £30m in supply chain contracts

EIA:

- WSP – Lead EIA consultant

Surveys:

- Fugro – Preliminary Geophysical/Geotechnical and Environmental surveys
- OWC – Preliminary Geophysical survey analysis
- 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
- Dalcour Maclaren – Landowner Engagement

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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
- Maximise local content while remaining competitive



MarramWind 

ScottishPower
Renewables 

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:

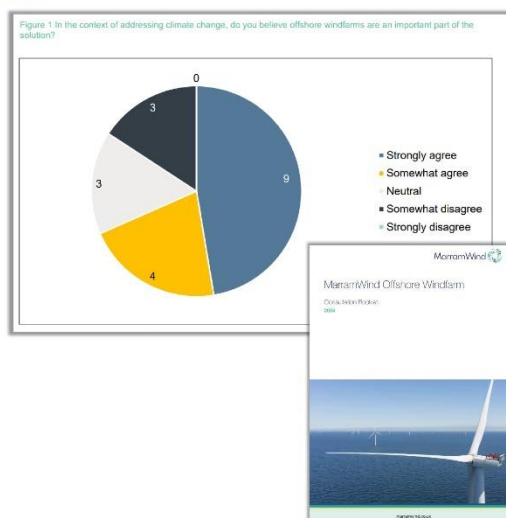
- **DeepWind Cluster:** <https://www.offshorewindsotland.org.uk/deepwind-cluster>
- **Forth & Tay Offshore Cluster:** <https://www.forthandtayoffshore.co.uk>
- **Scottish Renewables Supply Chain Forum:** <https://www.scottishrenewables.com/our-industry/supply-chain>
- **Energy Pathfinder:** <https://www.nstauthority.co.uk/regulatory-information/supporting-the-su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



Stat con 1 feedback and response

Stakeholder feedback:

- MarramWind should share cable corridors with other developers at landfall
- Construction methods and installation should be efficient and limit disruption during construction
- Visual impacts from offshore infrastructure
- MarramWind should focus on skills and job creation
- Will the project establish a Community Benefit Fund?





Q&A

- Submit questions via the Q&A function on Teams; or
- Email stakeholder@marramwind.com



Providing formal feedback

Channels

- Email us your comments at stakeholder@marramwind.com
- Fill in a feedback form in our 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 is open from **9 October 2024 to 11:59pm 19 November 2024**.

Next steps

A further non-statutory public information event is planned to take place in 2025. The purpose of this event is to provide an update on how the Project has considered stakeholder feedback and to explain what the final Project proposals will look like.



MarramWind 

Thank you



5.4 Full analysis of feedback

5.2.7 Offshore

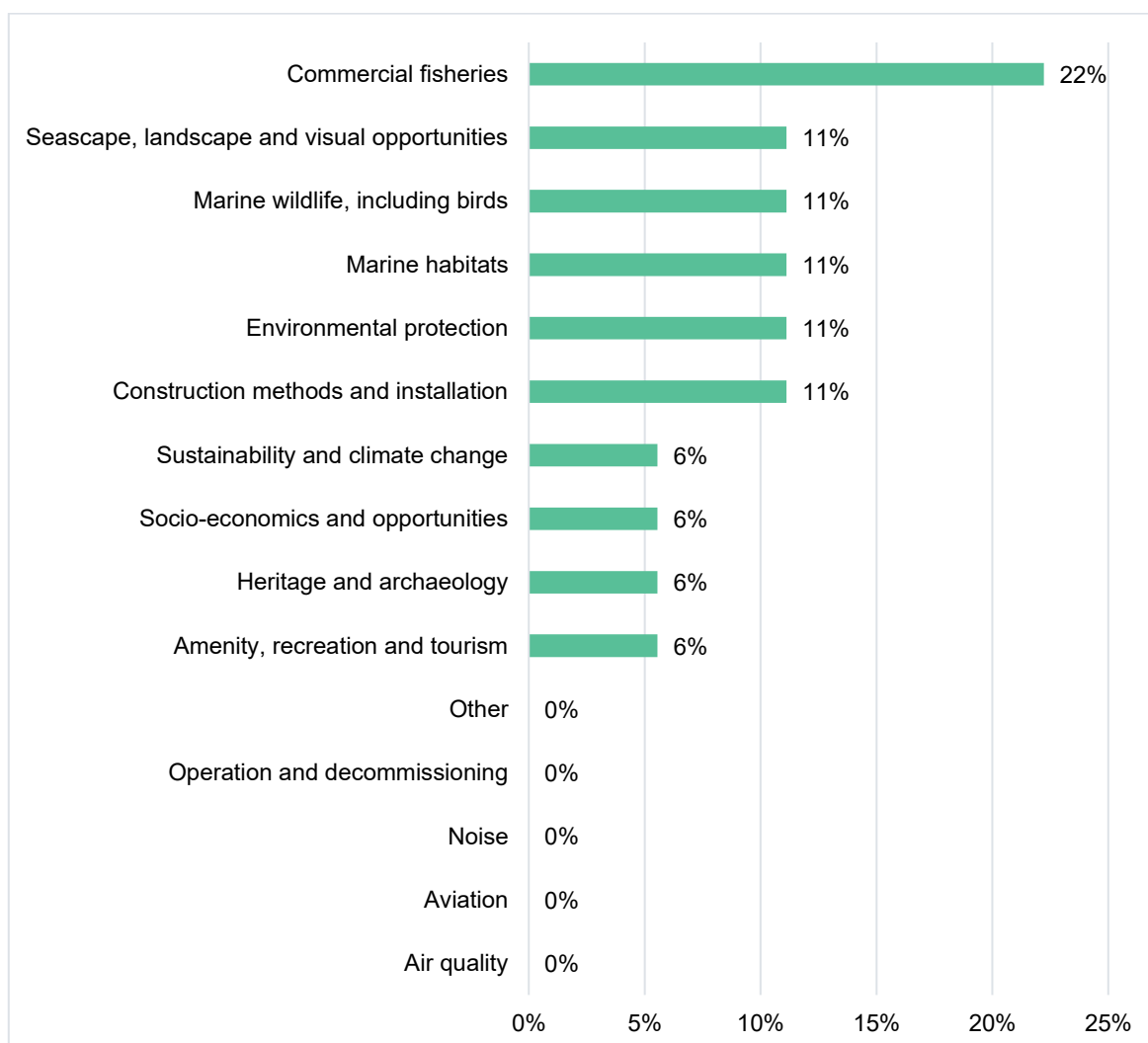
Question 1) With consideration to our updated proposals for the offshore project design and infrastructure, which of the following aspects are most important to you?

6 respondents answered this question.

22% selected commercial fisheries as the most important aspect.

11% selected the aspects seascape, landscape, and visual impacts; construction methods and installation; environmental protection; and marine habitats and wildlife (including birds) respectively.

Plate 5.1 Statutory Consultation 2 - Q1



Percentages do not total 100% due to rounding.

Question 2) Please explain the reason for your answer to Question 1.

The analysis of the five free-text responses, nine key themes emerged. The Applicant found that requests for information was the most common (two mentions), with participants requesting clarity on long-term community benefits and project effects.

One comment raised environmental concerns (one mention), including the potential effects of offshore cables on seabed habitats, marine wildlife, and the fishing industry, which was noted as being “extremely important” to the Peterhead economy.

Community impacts were also cited, with dissatisfaction over energy costs and the need for equitable benefits in the community. Recommendations included adopting international practices for offshore power transmission and mitigating onshore cable corridor effects.

Table 5.1 Statutory Consultation 2 - Q2

Code	Frequency
Request for information	2
Concern about project location (general)	1
Impacts on communities	1
Impacts from wind farm on fishing	1
Impacts from cables on geology/seabed	1
Impacts from cables on marine wildlife	1
Impacts from cables on marine habitats	1
Recommendation for mitigation for onshore cable corridor	1
Support for benefits and opportunities	1

Question 3) Are there any specific environmental, social or economic sensitivities related to the updated offshore project design or infrastructure that you wish to provide feedback on?

4 respondents answered this question.

Two comments raised concerns about impacts on communities and local services, with comments emphasising a potential strain on housing, healthcare, schools, and transport due to the proposed project.

Recommendations for offshore cable corridor mitigation also featured (two mentions), with comments including suggestions of horizontal directional drilling (HDD) from the shore and trenching or rock dumping to minimise environmental effects.

Other concerns (one mention each) included effects on roads, fishing, worker accommodation, labour shortages, and a potential economic impact was noted, particularly on tourism and local agriculture, if cultural heritage is affected by construction or infrastructure.

One comment voiced a general objection to the project citing dissatisfaction over perceived inequities in energy distribution and costs (one mention).

Table 5.2 Statutory Consultation 2 - Q3

Code	Frequency
Impacts on communities	2
Recommendation for mitigation for offshore cable corridor	2
Impacts on local services	2
Objection to project	1
Impacts on historic features and cultural heritage	1
Impacts on roads and transport	1
Concern that power won't stay in Scotland	1
Impacts from wind farm on fishing	1
Concern about disruption from construction	1
Concern about worker accommodation	1
Concern about the lack of labour availability	1
Support for benefits and opportunities	1

5.2.8 Landfall

Question 4) With consideration to our updated proposals for landfall options (Scotstown Beach and Lunderton), which of the following aspects are most important to you?

6 respondents answered this question.

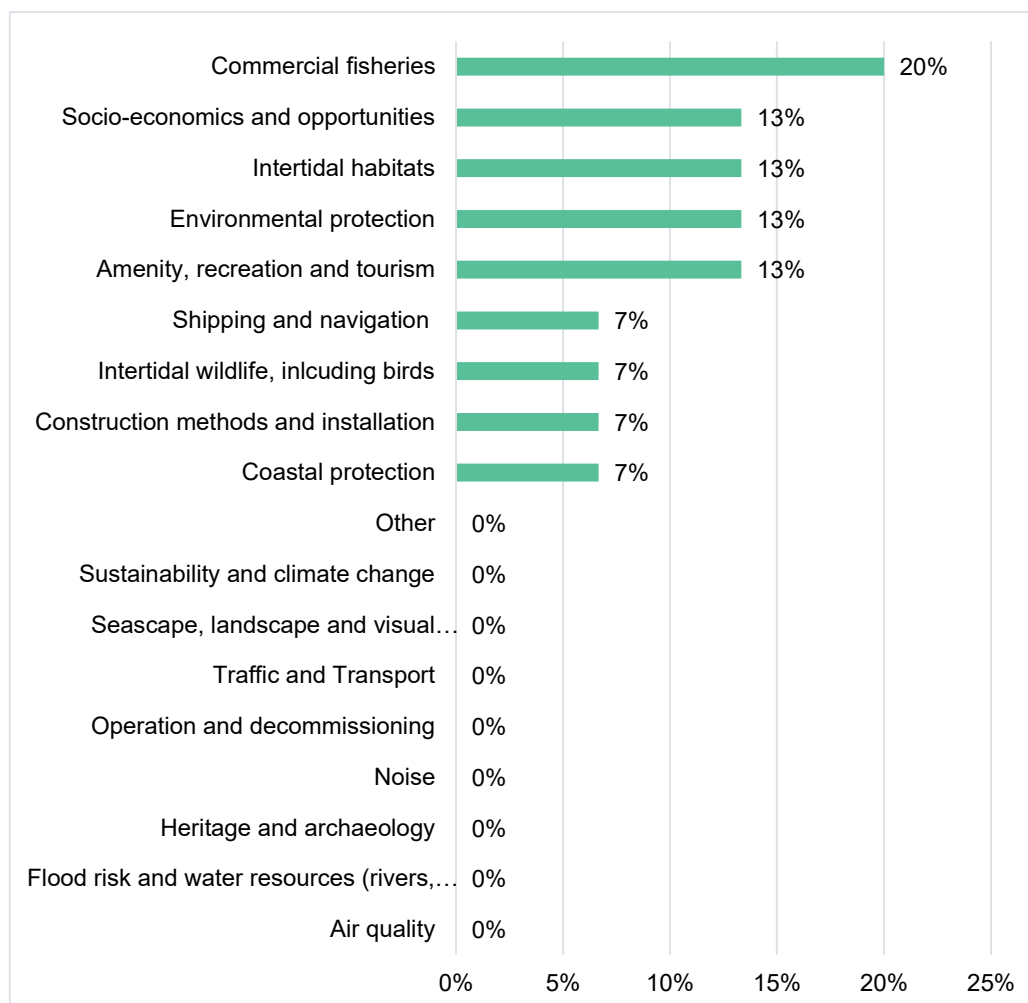
Each respondent was allowed to select up to three aspects.

Three respondents selected commercial fisheries as most important.

Socioeconomics and opportunities, intertidal habitats, environmental protection, and amenity, recreation, and tourism were each selected by two respondents respectively.

Coastal protection, construction methods and installation, intertidal wildlife including birds, and shipping and navigation were each selected by one respondent respectively.

Plate 5.2 Statutory Consultation 2 - Q4



Percentages do not total 100% due to rounding.

Question 5) Please explain the reason for your answer to Question 4.

6 respondents answered the free-text question.

Six different themes were raised once each. Community impacts included objections to fencing off beaches and calls for inclusive access, such as free parking and opportunities for site visits for locals and schools during construction.

Environmental and economic effects on inshore fisheries were raised with one respondent recommending Lunderton as the landfall site due to minimal disruption to the fishing industry.

Other feedback included objections to the use of onshore cable infrastructure funded by electricity consumers for private gain and suggestions to avoid sonar surveys as part of the EIA due to potential links to whale beaching.

There was one other comment not related to the question.

Table 5.3 Statutory Consultation 2 - Q5

Code	Frequency
Impacts on communities	1
Impacts from wind farm on fishing	1
Support for Lunderton landfall site	1
Objection to onshore cable corridor	1
Recommendation to approach to EIA/HRA	1
Recommendation for site visits for local people/schools	1
Response not related to the question (NA)	1

Question 6) Are there any specific environmental, social or economic sensitivities related to the landfall project design or infrastructure that you wish to provide feedback on?

4 respondents answered this question.

Two respondents expressed support for benefits and opportunities, emphasising the need for transformative local investment.

There was a recommendation for engagement which suggested consulting knowledgeable stakeholders to address community needs effectively (one mention).

Environmental concerns raised focused on the potential effects of offshore cables on marine wildlife and the need for comprehensive pre and post-installation assessments to evaluate effects on inshore fisheries (one mention each).

One respondent voiced strong objections to the project and another indicated no specific concerns.

Table 5.4 Statutory Consultation 2 - Q6

Code	Frequency
Support for benefits and opportunities	2
Objection to project	1
Impacts from cables on marine wildlife	1
Recommendation for marine wildlife assessment	1
Recommendation/request for engagement	1
No other comments	1

5.2.9 Onshore

Question 7) With consideration to our updated proposals for the onshore project design and infrastructure, which of the following aspects are most important to you?"

3 respondents answered this question.

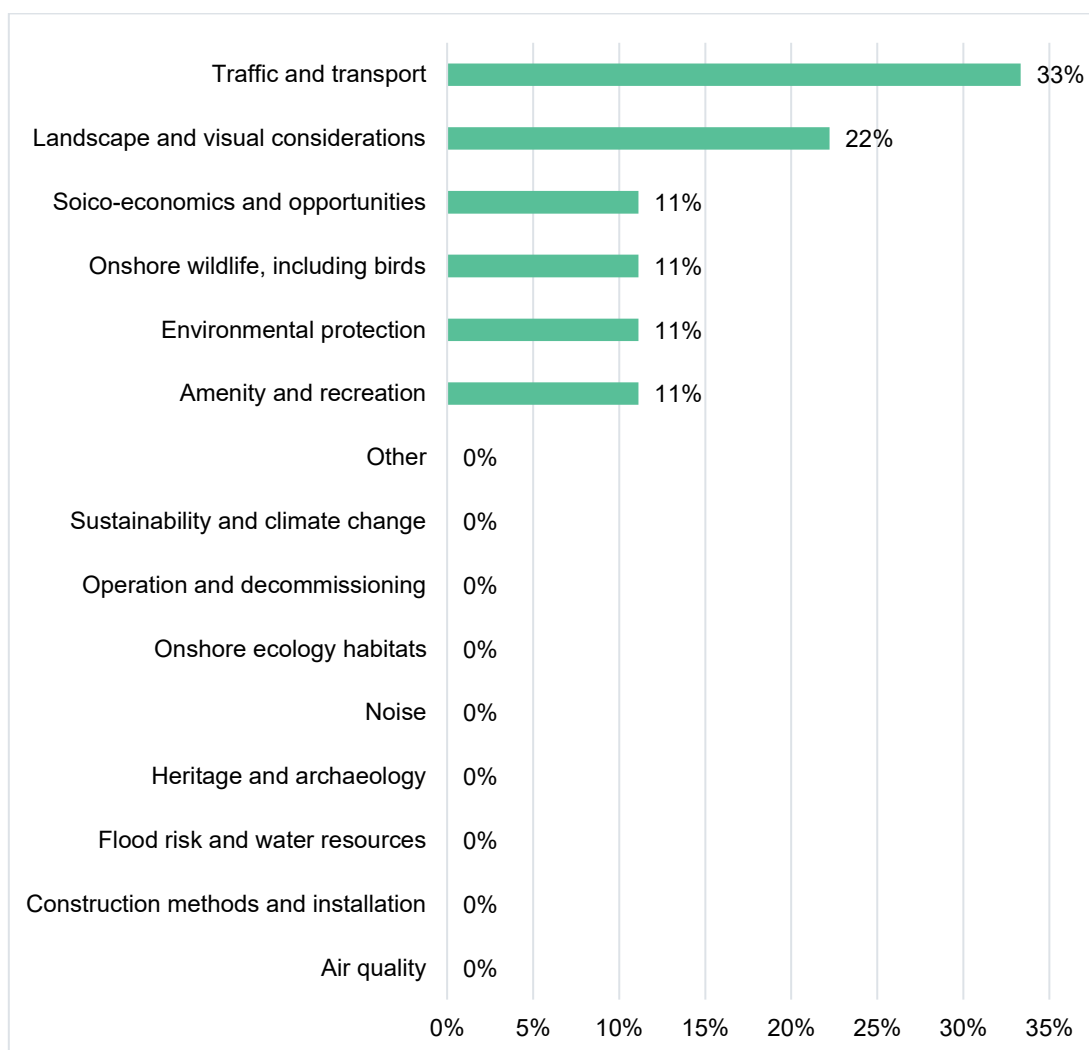
Respondents were able to select up to three aspects as most important.

33% selected traffic and transport as the most important (selected by all three respondents).

22% selected was landscape and visual considerations (two respondents).

11% selected each of the following aspects: amenity and recreation; environmental protection; onshore wildlife (including birds); and socioeconomics and opportunities (one respondent per aspect).

Plate 5.3 Statutory Consultation 2 - Q7



Question 8) Please explain the reason for your answer to Question 7.

3 respondents answered this free-text question.

Four themes were raised once each and there was one objection to the project. Respondents were concerned about the impact of the project on the community, noting objections to living in an industrialised area with reduced access to the shore and dissatisfaction with perceived inequities.

One respondent emphasised the need for transformative community investment and stakeholder consultation to address local needs effectively. One respondent had no additional comments.

Table 5.5 Statutory Consultation 2 - Q8

Code	Frequency
Objection to project	1
Impacts on communities	1
Impacts on communities (including recreation)	1
Support for benefits and opportunities	1
Recommendation/request for engagement	1
No other comments	1

Question 9 Are there any specific environmental, social or economic sensitivities related to the onshore project design or infrastructure that you wish to provide feedback on?

Three respondents answered this question. Two themes were raised and two objections. One comment called for electricity discounts, highlighting dissatisfaction with perceived inequities, particularly in comparison to other regions like London (one mention).

Objections included concerns that the project would use infrastructure funded by electricity bill payers for private gain and opposition to the project's onshore cable corridor (one mention each). One respondent had no additional comments.

Table 5.6: Statutory Consultation 2 - Q9

Code	Frequency
Objection to project	1
Concern that power won't stay in Scotland	1
Objection to onshore cable corridor	1
Recommendation for electricity discount	1

Code	Frequency
No other comments	1

5.2.10 Benefits and Opportunities

Question 10) If MarramWind was to implement a Community Benefit Fund, what sort of projects would you want to see funded?

Through analysis of the four free-text responses, the Applicant found that there was a strong focus on community improvements and development opportunities.

Respondents also made recommendations for benefits and opportunities (50%, three mentions), with suggestions including significant capital investment to improve local facilities, create transformative change, and support community hubs like Port Errol Harbour and the Old Congi Church. There was also an emphasis on improving healthcare, such as refurbishing the Ugie Hospital and investing in medical equipment.

Other feedback included a concern about local residents potentially being “fenced off” from the shore due to landfall infrastructure, and it was requested that this be avoided (17%, one mention). Education and skills development for young people was highlighted, with a proposal to train new entrants into the inshore fishing industry (17%, 1 mention).

Additionally, one respondent recommended maintaining engagement with the local community to ensure the fund aligns with their needs (17%, 1 mention).

Table 5.7 Statutory Consultation 2 - Q10

Code	Frequency
Recommendation for benefits and opportunities	3
Impacts on communities (including recreation)	1
Recommendation for education/skills development for young people	1
Recommendation/request for engagement	1

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

Through analysis of the responses, the Applicant found that most suggestions focused on community benefits and opportunities (three mentions). Respondents recommended sustained investment in local groups and facilities beyond construction, as well as improving healthcare infrastructure, such as refurbishing Ugie Hospital to attract and retain staff.

One mentioned education and skills development for young people, including support for new entrants into inshore fisheries (one mention). The other comments raised environmental considerations including conducting pre- and post-cable marine wildlife assessments (one mention) and enhancing onshore landscapes like the coastal footpath (one mention).

Table 5.8 Statutory Consultation 2 - Q11

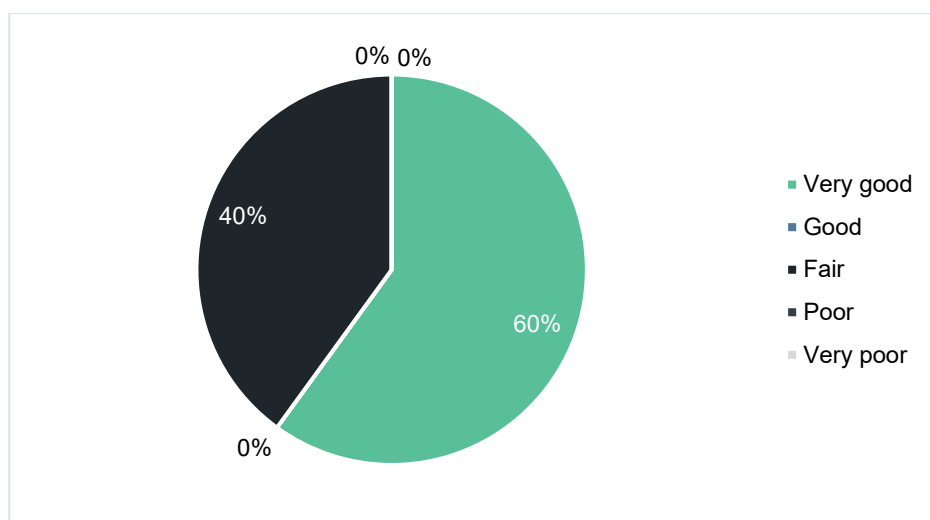
Code	Frequency
Recommendation for benefits and opportunities	3
Recommendation for marine wildlife assessment	1
Concern about the lack of labour availability	1
Recommendation for education/skills development for young people	1
Recommendation for enhancing landscape onshore	1

5.2.11 Feedback on consultation

Question 12) Based on the information presented in this consultation, how would you describe your understanding of the MarramWind Offshore Wind Farm project? Please add any other ideas you have for MarramWind to leave a positive legacy.

A total of five respondents answered this question. Three respondents described their understanding of the project as very good and two respondents indicated that their understanding was fair.

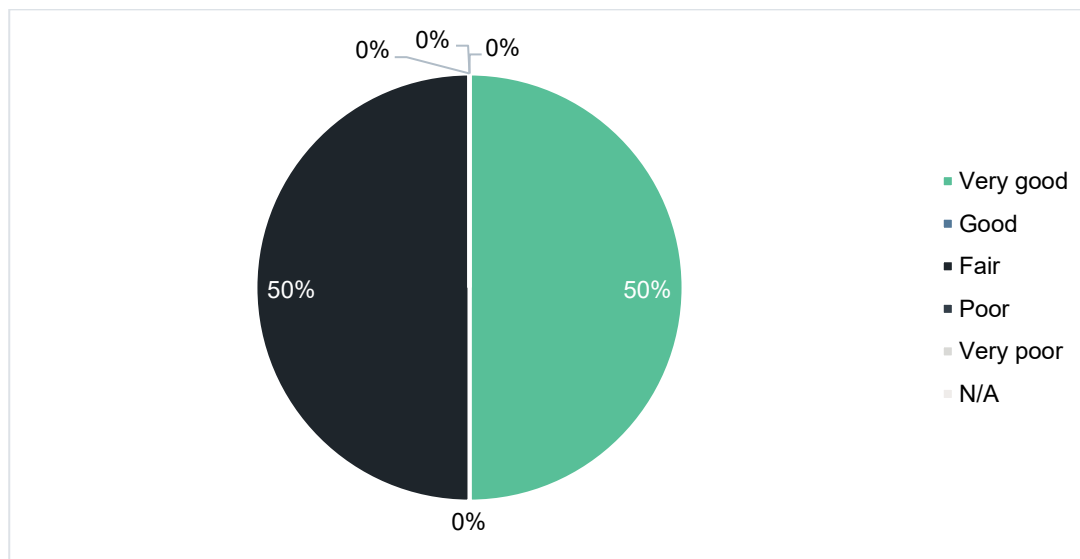
Plate 5.4 Statutory Consultation 2 - Q12



Question 13) If you attended one of our in-person consultation events or online Q&A sessions, how would you rate your overall satisfaction?

Four respondents answered this question. Two respondents rated their satisfaction as very good, while the remaining two rated it as fair.

Plate 5.5 Statutory Consultation 2 - Q13



Question 14) If there is anything you hoped or expected to learn about MarramWind at this consultation that we did not present, please share.

Three respondents answered this question. Half of respondents (two mentions) expressed satisfaction with the information presented, praising the quality of the consultation and the responsiveness of staff.

One respondent was satisfied with the event overall, stating that their expectations were met.

However, another respondent was dissatisfied with the promotion of the consultation, suggesting that better reminders could have helped increase attendance.

Table 5.9 Statutory Consultation 2 - Q14

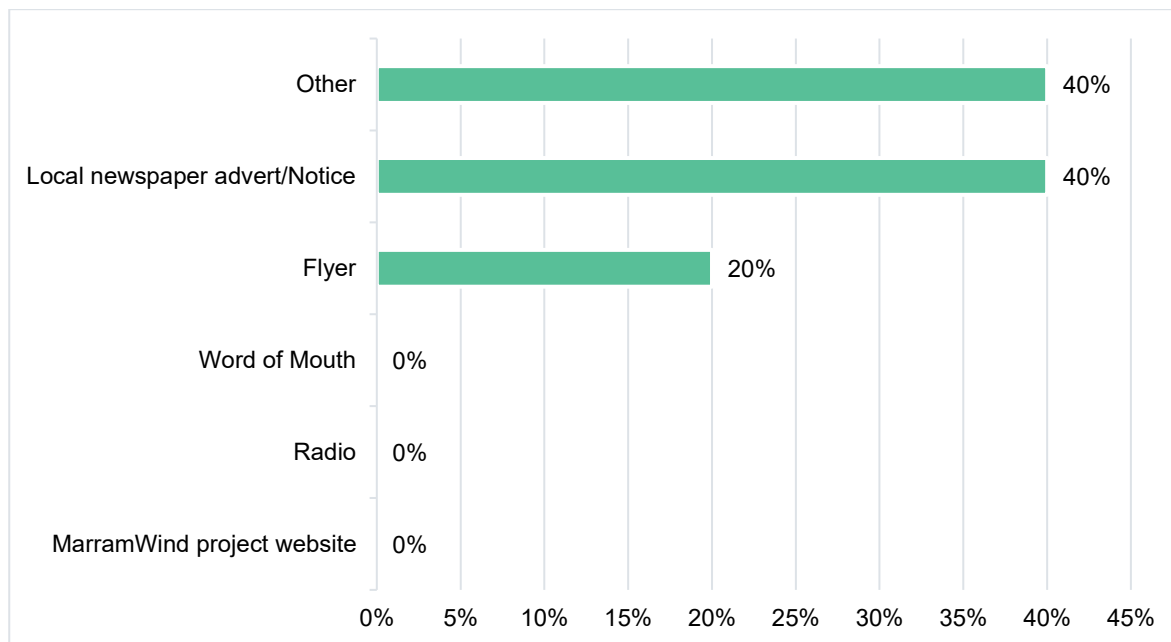
Code	Frequency
Satisfied with the information presented	2
Satisfied with events	1
Dissatisfied with promotion	1

Question 15) How did you hear about the MarramWind Offshore Wind Farm consultation?

Five respondents answered this question. The most frequently mentioned source was a local newspaper advert or notice which was selected by two respondents.

Similarly, two respondents selected “other” and specified that they heard about the consultation through Brown & May and Community Council sources. One respondent indicated that they learned about the consultation via a flyer.

Plate 5.6 Statutory Consultation 2 - Q15

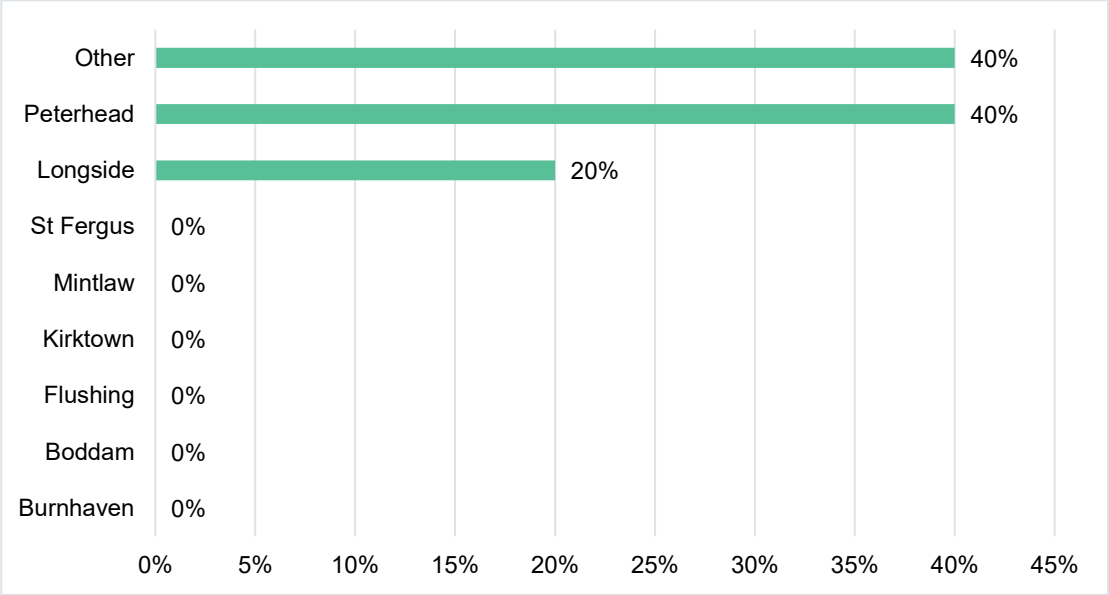


5.2.12 About you

Question 16) Where do you live?

Five respondents answered this question. Two respondents indicated that they live in Peterhead. Two respondents selected “other” and specified that they live in Auchnagatt and Longhaven and one respondent indicated they reside in Longside.

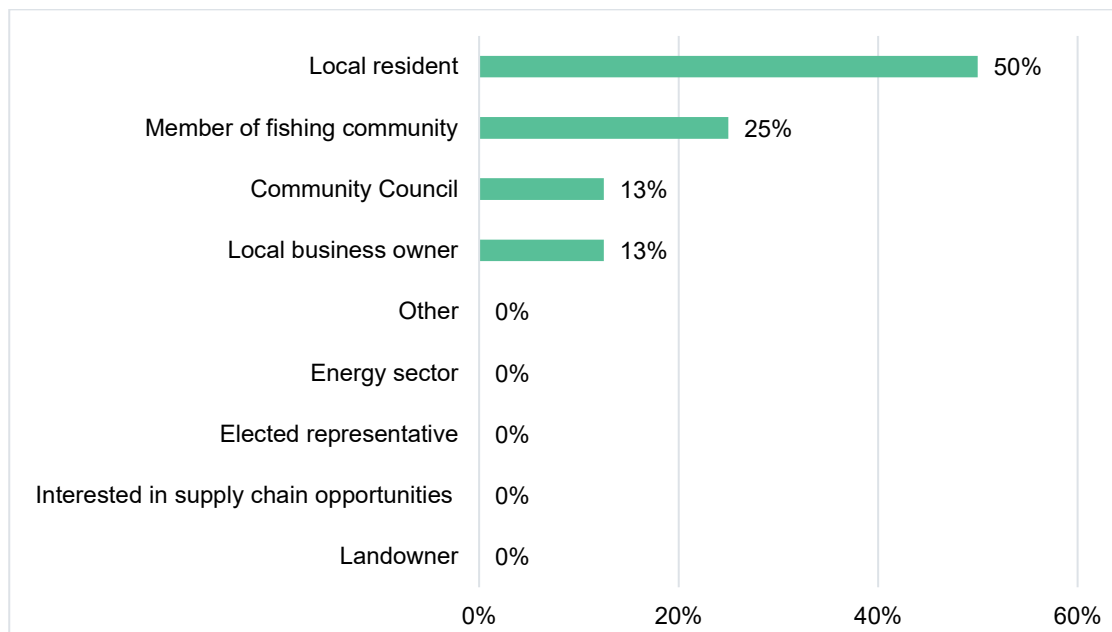
Plate 5.7 Statutory Consultation 2 - Q16



Question 17) Please tick the following, as appropriate to your status.

Five respondents answered this question. Three respondents were local residents, while two were members of the fishing community. Furthermore, one respondent was a member of the County Council and one respondent was a local business owner.

Plate 5.8 Statutory Consultation 2 - Q17



5.5 Applicant's response to feedback

Table 5.10 The Applicant's Response to Feedback Received: Second Statutory Consultation

Topic	Nature of comment	The Applicant's response
Landfall	Concerned that the local villages are being cut off from the coast due to the onshore/landfall infrastructure.	A construction traffic management plan will be implemented during the construction phase with measures to minimise any impacts on the local road networks. The landfall and onshore export cable infrastructure will be below ground with construction areas reinstated following completion. Consequently, it is not envisaged that onshore / landfall infrastructure, either during construction or for the operational phase, will restrict access or cut off the coast from local villages.
	Suggestion that the best location for landfall is Lunderton, as it would have the smallest effect on the fishing industry.	Landfall selection is based on a range of environmental, social and commercial variables including landowner negotiations and competition for space with other developers. The landfall option at Scotstown has some constraints in the nearshore environment that limit the number of circuits that could be routed to shore. This landfall is retained as an option however, given ongoing uncertainties in relation to grid and landownership.
	Suggests horizontal directional drilling (HDD) from the shore side as far out as possible.	HDD is likely to be the option for landfall, subject to further ground investigations & analysis of bore hole data, which will indeed be from the shore side. Initial indications are that it would extend approx. 1km from the landfall location. There is bedrock in the near shore area which will limit how far out HDD can successfully be taken. Other drilling options could be micro tunnelling but this is more complex.
Offshore Infrastructure	Suggestion for all offshore generated power to remain offshore via offshore switching stations, rather than bringing it onshore.	The power generated offshore will have to come onshore at some point to serve the demand requirements. The location for connecting into the grid is determined by National Electricity System Operator (NESO) and the Transmission Operators (TO's), and is outwith the control of the developer. A Holistic Network Design exercise was undertaken by NESO, in consultation with the TO's who determined the most efficient & economic location for the generated electricity to enter the grid. There are "bootstraps" (HVDC

Topic	Nature of comment	The Applicant's response
		interconnectors) that will take the power from the Peterhead area in an offshore route and into connection points in North Yorkshire (EGL2) and Lincolnshire (EGL3), to avoid greater onshore reinforcements, which will be installed by the TOs. There are still technology advancements necessary to achieve offshore switching stations, which are being developed and may be in place in time for SPR/Shell's other ScotWind Project, CampionWind, which is expected to be on a later timeline, and may indeed connect into an offshore switching station or multi-terminal HVDC converter station.
	Suggests trenching and rock dumping over the offshore cable corridor to reduce the effect of magnetic fields on wildlife and habitats.	The project intends to bury the offshore cable wherever possible as the most effective method for protecting the cable from damage and for avoiding changes to marine habitats. Cable protection will only be used where cable burial is not possible.
	Concern about the impact of the environmental surveys on marine life – a suggestion that sonar surveys are avoided to prevent whale breaches.	Environmental surveys for the project are subject to risk assessment for their potential to impact upon sensitive marine species including whales, and to licensing under UK law. Surveys are approved where the competent authority deems the risk to be adequately mitigated and managed via the survey methods and programme in relation to the seasonality of the species in question.
Benefits and Opportunities	Suggests MarramWind offers a reduced energy price for local residents as remuneration for the disruption caused.	MarramWind is committed to ensuring that the wind farm's onshore infrastructure is designed, constructed and operated sensitively, minimising any potential disruption for local residents. We are also focused on maximising the socio-economic opportunities associated with the project to create a positive, lasting legacy for local communities, which will include the creation of a Community Benefit Fund. The focus of this fund will be shaped by local stakeholder feedback, best practice learning from across the industry, and guidance from government. This will include the Scottish Government's Good Practice Principles for Community Benefits from Onshore and Offshore Wind, which is currently being consulted on and includes local electricity bill discounts amongst a range of potential community benefit options.
	Suggests ongoing engagement with key stakeholders knowledgeable of the local community's needs.	MarramWind is committed to ensuring that the wind farm is developed in a way that reflects community priorities and supports regional infrastructure.

Topic	Nature of comment	The Applicant's response
		We will continue to engage with key local bodies to explore opportunities for collaboration throughout the planning, construction, and operational phases of the project. Early and ongoing dialogue will be essential to identifying shared goals and ensuring that local expertise informs decision-making.
	Suggests significant capital investment in the community to improve facilities (general).	As a multi £billion capital investment project, MarramWind Offshore Wind Farm is anticipated to support a number of significant investments in and around the North-East of Scotland. These will include investment in a dedicated operations and maintenance base at a port in proximity to the wind farm site. MarramWind has also committed to making up to £25m available to support Scottish supply chain companies to invest in new infrastructure, facilities, skills and innovation to help them secure work in the offshore wind farm sector. We are also committed to creating a Community Benefit Fund, the use of which will be informed by local stakeholder feedback, so may include facilities and infrastructure for use by the public.
	Suggests the Applicant take on and train new entrants into the inshore fishing industry as part of the community benefit.	ScotWind projects such as MarramWind Offshore Wind Farm will create an increased demand for skilled labour within the North-East of Scotland. Therefore, the initial focus of our skills activity will be to leverage our £25m supply chain stimulus fund to support the skills required for Scotland's future offshore wind workforce. MarramWind's Community Benefit Fund could, however, be used for wider skills support beyond the offshore wind industry, if there is sufficient interest and demand from the local communities and stakeholders to see the fund utilised in this fashion.
	Requests that a community benefit fund is created to: - Fix the Harbour Wall at Port Errol - Improve hospital equipment - Create a coastal footpath - Refurbish the Ugie Hospital	MarramWind are at an early state of scoping out the design of our Community Benefit Fund, which will be launched around the time the wind farm becomes operational in the 2030s. We will take onboard these suggestions and the other suggestions we have received during the statutory consultation process, which will be useful for shaping the fund's design. As a general principle, MarramWind believes that local people are best placed to determine the initiatives that will deliver the greatest impact for their communities. Therefore, we will continue to engage and consult local stakeholders on the design and operations of the fund, to ensure that it is directed towards local priorities that deliver tangible benefits to people living in proximity to our wind farm.

Topic	Nature of comment	The Applicant's response
	A suggestion that the landfall site is opened occasionally for the community to see the progress.	This is something that we will take on board and see how we could facilitate before, during and/or after the construction campaign. We are keen to keep the local community informed as we progress through the project. Thank you for this suggestion.
	Concerned about the strain on local infrastructure that will come from the project workforce.	<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"> -specifying acceptable construction traffic access routes, -identifying any times HGV deliveries will be required to avoid, -management of deliveries via a booking system to avoid vehicles arriving in convoy, -providing a suitably sized storage area onsite to support the stockpiling of materials and reducing the number of deliveries, where possible, -providing access arrangements to minimise vehicle delays; and -car sharing to reduce employee vehicles.
	Concerned about the lack of services available for the project workforce, including housing, hospitals, dentists, and schools.	<p>The Socio-Economic Chapter of the Environmental Impact Assessment (EIA) will include assessment of demand community facilities related to the project workforce.</p> <p>In addition, we will create a Socio-Economic Action Plan which will put forward our commitments for MarramWind. The assessment for this work will be undertaken in accordance with National Planning Framework 4 which will include a Local Needs Assessment with data analysis to understand socio-economic issues, opportunities and community wealth building priorities.</p> <p>We will explore locally relevant opportunities relating to supply chains, skills development and a community fund and work in collaboration with Aberdeenshire Economic Development and Place Economy Teams.</p> <p>We have committed to producing the Socio-Economic Action Plan in plain English and in a reader-friendly format so that it is accessible and meaningful to everyone with an interest in how the project will interact with the local area.</p>

Topic	Nature of comment	The Applicant's response
	Worried about the shortage of a suitable workforce in the local area.	<p>MarramWind is committed to enhancing local employment opportunities and relevant skills development opportunities where appropriate.</p> <p>Where possible, apprenticeship and trainee opportunities will be made available to enable entry level job seekers to find roles.</p> <p>Jobs will be advertised as early as possible, ensuring local people have opportunity to apply, but also to enable a wider recruitment pool to ensure the workforce has the best possible skillset to deliver on behalf of the project in a way that is mindful of and meets the needs of local communities.</p>
	Concerned about the local area being industrialised.	<p>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.</p> <p>Our inclusion of a combined landscape and architectural strategy has the potential to ensure the development fits well with the surrounding land uses. Yes, some of these are industrial, but our development will aim for a high-tech, leafy, clean, and coordinated appearance that will 'build better' and offers the opportunity for enhancing the area.</p>
Landscape and visual	Concerned about the effect of the proposed infrastructure on the local landscapes and communities - perception that it is going to be devastating for the rural landscape. Also worried about the subsequent effect on tourism, agriculture, and forestry.	<p>We are undertaking a full landscape design and visual impact assessment, and our landscape architects have helped guide the site selection and approach to design. The locations of Options B and C minimise the number of properties in proximity to the sites. In addition, due to 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.</p> <p>Furthermore, the sites offer the best potential for screening views of the substation. We have undertaken a detailed viewpoint analysis to ensure that the design of the development can mitigate (avoid or reduce) the landscape and visual effects. In addition, we will use various mitigation techniques involving a landscape master plan that will provide native planting to screen the development. This will have the additional benefits of connecting the ecology of</p>

Topic	Nature of comment	The Applicant's response
		the area and enhancing the landscape character and quality once established. We will also employ architectural techniques to ensure the appearance of the development can achieve a best fit with its surroundings through use of colour, materials and detailing. This may also have the added benefit of enhancing the appearance of the site and surroundings presenting a high-tech, tidy and coordinated response.
Fishing	Concerned about the short- and long-term effects on the local inshore fishery.	Effects on the local inshore fishing industry will be assessed in the EIA.
	Concerned about the cumulative effect of the offshore cables on seabed habitats (and subsequently, the offshore fishing industry).	Cumulative effects will be assessed in the EIA Report including in relation to offshore cabling, marine habitats and fisheries.
	What are the long-term effects on lobster, crab, and velvet crab within the onshore cable corridor?	The EIA Report will assess impacts to marine species that are identified as being present along the offshore cable corridor. The scope of this assessment is set out in the MarramWind Scoping Report and will include consideration of habitat disturbance and/or loss, increased suspended sediments, seabed disturbance resulting in release of sediment contaminants, risk of introduction of invasive non-native species, colonisation of hard substrates, accidental pollution events, and electro-magnetic fields.

Topic	Nature of comment	The Applicant's response
	<p>Suggests a pre-cable installation fishing assessment to provide a baseline followed by a post-cable assessment after installation to indicate any effect on the inshore fisheries.</p>	<p>To ensure a comprehensive understanding of commercial fishing activities in the region and to address concerns from the fishing industry, the project has maintained a structured and ongoing engagement process. Quarterly meetings are held with a range of fishing organisations to discuss project developments and gather feedback. During the first round of statutory consultation, the project team also met with the Scottish Fishermen's Federation (SFF), the Scottish Pelagic Fishermen's Association (SPFA), and individual inshore fishers. These discussions provided valuable insights, including the identification of productive grounds for scalloping, lobster potting, and trawling for white fish and prawns. Fishing representatives also expressed a particular interest in the potential influence of electro-magnetic fields (EMF) from buried subsea cables on crustacean distribution.</p> <p>To support continued collaboration and address potential impacts on the commercial fishing industry, a Fisheries Mitigation, Monitoring and Communication Plan (FMMCP) will be developed and submitted alongside the Application for Consent. This comprehensive plan will outline the approach to commercial fisheries-related monitoring and mitigation for both the export cable and the offshore wind farm.</p> <p>The FMMCP will include:</p> <ul style="list-style-type: none"> -Monitoring of fisheries statistics; -Analysis of Vessel Monitoring System (VMS) data; -Incorporation of inshore VMS (iVMS) data as it becomes available across Scottish vessels; -Records of observation from Guard Vessels, where available; -Information collated by the Fisheries Liaison Officer; -Any other sources of information identified through the EIA process. <p>The impact assessment process will further inform the development of additional mitigation measures aimed at reducing potential impacts on the fishing sector. The FMMCP will be prepared in close consultation with the fishing industry, including key stakeholders such as the SFF, the Scottish White Fish Producers Association (SWFPA), and the SPFA, to ensure that industry perspectives are adequately represented.</p>

Topic	Nature of comment	The Applicant's response
		Furthermore, any requirement for species-specific surveys, either before or after construction, will be guided by advice from the Marine Directorate and NatureScot, and may be stipulated as part of consent conditions.
	Concern about fishing within the Offshore Wind Farm	The Applicant acknowledged concerns about access within the Offshore Wind Farm site, and committed to sharing cable route coordinates, reviewing mooring designs to minimise footprint, and incorporating mitigation measures in the EIA.
	Query about approach to engagement with fishing industry representatives	During the Statutory Consultation event on 29 th October 2024, a dedicated room was made available for fishers to discuss their concerns. The issues raised by fishers that are relevant to the development stage have been 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.
Wildlife and habitats	Concerned about the cumulative effect of the onshore cables on seabed habitats.	Cumulative effects will be assessed in the EIA Report including in relation to offshore cabling and marine habitats.
	Suggests trenching and rock dumping over the offshore cable corridor to reduce the effect of magnetic fields on wildlife and habitats.	The project intends to bury the offshore cable wherever possible as the most effective method for protecting the cable from damage and for avoiding changes to marine habitats. Cable protection will only be used where cable burial is not possible.

Topic	Nature of comment	The Applicant's response
Statutory Consultation	Suggestion to send out a community reminder a few days before future events.	The promotional campaign adopted for the second round of consultation exceeded statutory requirements and was approved by Aberdeenshire Council through the Proposal of Application Notice. Promotion included leaflets distributed approximately two weeks before the consultation events to approximately 13,000 properties in the area, eight newspaper adverts in two local newspapers in the run up to the events, online adverts, a two-week radio advert in the run up to the events and posters displayed in publicly accessible buildings. We believe that this is an appropriate level of promotion for a project on the scale of MarramWind.

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