

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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5.1 Booklet



MarramWind Offshore Windfarm

Consultation Two Booklet
2024



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Welcome

MarramWind is a proposed floating offshore windfarm located off the north-east 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 2023, Ocean Estate Scotland awarded ScottishPower and Shell an Option to Lease Agreement for the MarramWind offshore windfarm area. Following the Option to Lease proposals, from 26 May – 1 July 2023, we held our first round of statutory consultation, presenting our initial project and environmental impact assessments. We are continuing 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. Our second round of statutory consultation runs from 9 October to 19 November 2024. Throughout the information booklet, we have illustrated how stakeholders can respond to the consultation 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 preparation of our Environmental Impact Assessment (EIA) and consent applications, which we intend to submit in autumn 2025. We now invite you to read through this booklet to learn more about our proposed proposals and share your views. Your feedback is important and will help us to develop a final project design for MarramWind and to submit part of our consent applications to the relevant authorities.

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

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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 market and technology leader in wind energy. Responsible for progressing Iberdrola Group's renewable energy projects in the UK, ScottishPower manages the development, construction and operation of wind farms and solar farms. ScottishPower has 40 operational windfarm sites generating over three gigawatts (GW) of renewable energy.

ScottishPower continues to be one of the leading renewable developers in the UK, with a growing almost £3 billion pipeline by 2025 across onshore and offshore 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 £5bn every working day to make that happen.

About Shell

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

Shell today has more than 10GW 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.



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 briefly visible from shore.

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

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

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

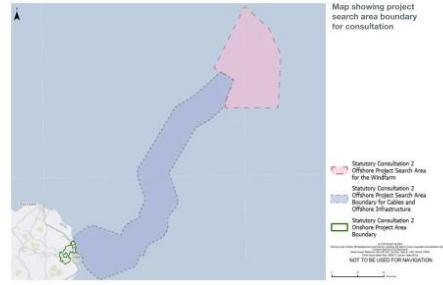
MarramWind has defined a project search area boundary shown on the map below, which has been refined since our first round of consultation. The expectation is that this boundary will be further refined in the future, as the best locations for the infrastructure are identified.

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



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

MarramWind, generating up to 5GW of power, will connect to the national grid via the proposed Scottish and Southern Electricity Network's (SSEN) Netherton substation to the west of Peterhead. This was confirmed by National Grid in their 'National Delivery Plan' report submitted to the UK's Ofgem in 2022. National Grid's vision 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 by 2050. This ambitious plan aligns with the UK Government's ambition to have a fully decarbonised electricity system by 2050 and will support delivery of the projects listed via ScotWind.



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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 Project, meaning the need to consent the project has been established through the planning policy. It is therefore necessary to seek planning permission, marine licences and other consents or licences are still required for construction and operation. The following table details the necessary applications for the following key consents for both the onshore and offshore elements of the project:

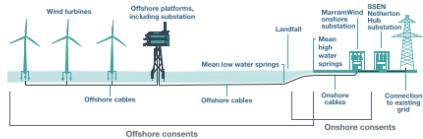
- Section 36 consent**, under the Electricity Act 1998 (S36), is required from the Scottish Ministers. Permission is granted by the Marine Directorate (on behalf of Scottish Ministers), referred onwards as the Marine Directorate.
- Marine consent**, under the Marine (Scotland) Act 2010 (12-12 nautical miles) and the Marine and Coastal Access Act 2009 (12-200 nautical miles), the Project is seeking marine licences. This is to undertake marine surveys, construction, operation and decommissioning 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 from Aberdeenshire Council to build 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 MHS and MLWS – this area is known as the intertidal zone. This consultation presents the project as a whole, reducing the number of individual consents and structures.

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 holding across the project area, will help us to 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 will 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.

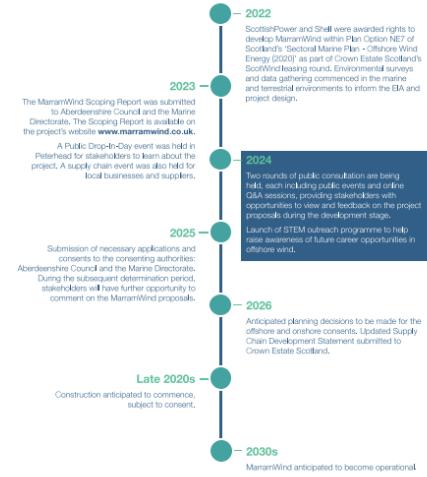
The diagram below shows the infrastructure that may be required for the development of the offshore elements of MarramWind, as well as which sections of the project are related to the different consents we need to apply for. Further information on the onshore and offshore infrastructure is provided in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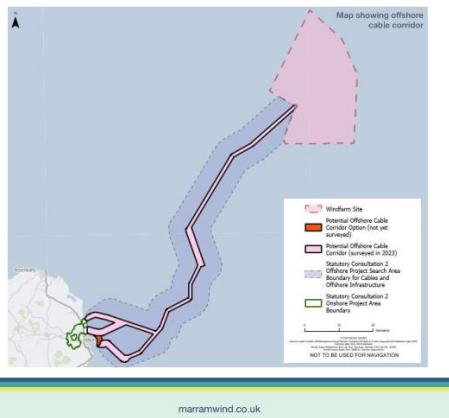
Offshore Project Updates

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 broader potential offshore cable corridor for cables and offshore infrastructure between the windfarm and the coast, as shown on the map below. The corridor

sets 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 NE7, which was identified for development by the Scottish Government's Sectoral Marine Plan - Offshore Wind Energy in 2020. The windfarm is 60km off shore and has water depths ranging from 10m to 130m. Work is ongoing to determine the windfarm site layout and exact locations of the required infrastructure. We are considering the marine environment, including 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 factors that need to be avoided, such as areas that could limit the technical feasibility of installation. We are engaging closely with technical stakeholders, such as NatureScot, compass, and the Scottish Environment 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 for the onshore cable corridor (OCC) could be located:

- Scattown Beach, north of Peterhead;
- Lunderston, 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 potential option for the onshore cable routing in conjunction with Sandford Bay landfall.

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. MarramWind has also been informed this iteration that the number of other projects in the vicinity that will limit space for routing the offshore and onshore cables and associated landfall infrastructure.

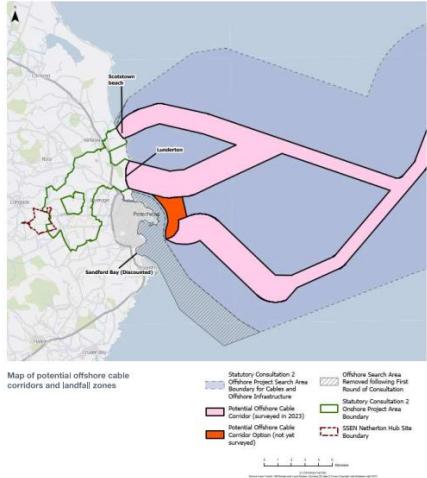
The offshore project search area boundary has also been refined since our first round of consultation. As the nearshore approach to Sandford Bay has been discounted, the offshore project search area boundary has also been reduced (shown in the grey hatched area on the map opposite). The southerly cable corridor remains the preferred route for the OCC in conjunction to the Lunderston 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 assessed for environmental impacts, which will govern the number of cables required. It is probable that the southerly route and the orange connecting corridor will be required, but the project is not yet able to make that decision.

Scattown Beach and Lunderston continue to be viewed as suitable locations for landfall from environmental and technical perspectives, enabling the routing of the offshore and onshore cables and associated infrastructure.

It is possible that both Scattown and Lunderston landfall locations will be taken forward, although this will be the preferred outcome as 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 be installed and space for the onshore infrastructure required for the correct power transmission, such as construction compounds. Within the chosen landfall(s), a more refined landfall site will be determined during the detailed engineering process. These decisions will depend on further engineering and environmental considerations and technical assessments. In order engagement, the location of other developments, the cable route itself, and the onshore substation location.



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Map of potential offshore cable corridors and landfall zones

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 ideas, and to work together to identify opportunities 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...

- “ MarramWind should consider the protecting a landfall area: • Seascapes, landscape and visual considerations, • Environmental protection, • Construction methods and installation, and • Intertidal wildlife, including birds.”

Our response...

Seascapes, landscape and visual considerations are extremely important; the effects from the project on these are to be minimised where possible. The project will be located within the Buchan Ness to Collieston Coast Special Protection Area. However, the lasting visual effect of the project at landfall will be negligible, as the onshore and offshore infrastructure will be located below ground level, and these types must be underground and the ground above them minimised.

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 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, from a technical 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 [landfill(s)] to the onshore substation and subsequently to the point of connection at the SSEN Netherston Hub substation.

Onshore cables

The cables will be laid underground within a cable corridor at an average depth of 1-2m. Plans of access will be in place during the construction phase of the cables during operation. It is expected that the width of the temporary onshore cable construction corridor and the underground cable will be approximately 130m. Full access will be provided to the cables to allow 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 minimised. Once the cables are in place and 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 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 assessments. Both a fully enclosed and a partially enclosed substation are shown here. As a final substation site has not been selected yet, these images are indicative of the potential options and are 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 switchgear, such as circuit breakers, isolators, and, if necessary, equipment to convert HVDC into HVAC. A transformer, which is electrical equipment that helps change the level of electricity voltage, will also be located at the substation. Once the substation is connected to the electricity network, the substation and associated buildings 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.

In our ongoing efforts to minimise the visual effects of the substation on sensitive views, we have carefully considered the siting of the substation using a natural screening method. By strategically placing trees around the substation, it would be possible to create a green buffer that blends seamlessly with the surrounding landscape. This approach not only helps to soften the industrial appearance of the substation but also enhances the overall aesthetics 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 a natural screen that obscures 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, including the use of natural screening 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 sites within the onshore 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 of the substation and cable corridor 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:

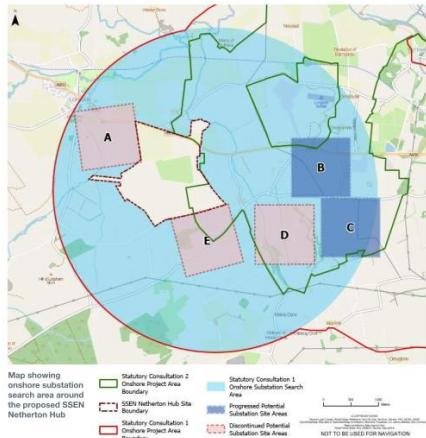
- the shortlisting of two onshore substation options that have been developed from the five options presented in the first round of consultation;
- the removal of Sandford Bay as a possible [landfill];
- confirmation that the project grid connection point will be in the southeastern corner of the SSEN Netherston Hub site; and
- refinement of the onshore cable corridor connecting [landfills] to the substation and subsequently to the SSEN Netherston Hub.



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This map shows the extent of the search area around the grid connection point at the proposed SSEN 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.



Ecological surveys being undertaken on site in the project area



Onshore cable corridor

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 the connection and operation. This assessment will take into consideration stakeholder feedback received as part of this consultation, further environmental and technical assessments, and engagement with statutory consultees. The outcome of this iterative design and site selection process will be reported on the Environmental Impact Assessment Report.

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

With the removal of Sandford Bay as a potential site, there is no requirement for an onshore cable corridor from Sandford Bay to the offshore substation. Furthermore, with the removal of three onshore substation options, there is also no longer the need to consider cable corridor locations. As a result, the onshore cable corridor search area has been adjusted to focus on a primary and an alternative cable corridor that connects the new substation to the transmission system. This has led 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 impacts on the surrounding area. However, the alternative corridor may be more suitable for local landowner engagement, stakeholder feedback and environmental and technical constraints that influence the selection of a preferred cable corridor. The assessment process 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 route will be informed by further stakeholder feedback and further assessment of local environmental and technical constraints. This allows us to develop a detailed design for the onshore substation and the SSEN 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 key themes identified by stakeholders. 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 sites for Options B and C provide 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 reduced 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 A950 via local roads. The sites are located further to the west and therefore closer to the A950, reducing the distance construction traffic will be required to travel on the local road network from the A950.



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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, which will be presented in a draft EA Report for consultation. This will be submitted to Aberdeenshire Council and the Marine Directorate, (including onshore cables and onshore substations) and the other focusing on offshore infrastructure (including wind turbines, access cables, and any ancillary offshore equipment).

The EA helps us understand any potential environmental effects from MarramWind, and how we can mitigate these effects. We will also present our findings 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 EA Scoping Report to Aberdeenshire Council and the Marine Directorate, which identified the key environmental topics that we proposed to undertake to identify the potential significant effects from the project. The Council and Marine Directorate provided their comments and guidance 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 and to collect baseline data, which information on the emerging baseline data findings in the section below. Alongside our surveys, we are also engaging with key stakeholders, including government and local authorities, to understand the requirements we are undertaking (as detailed in the following section). This allows these stakeholders to influence how we undertake our assessments so that the EA meets their expectations.

The EA assesses the likely significant effects of MarramWind for all project phases, including construction, operation, decommissioning 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 Blackhills.”

Our response...

Substation Site D has been discounted with substation options B and C now being taken forward for further assessment. Substation Site D is located in a primary 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 substation is well-mitigated, communicated and operated sensibly, managing any potential effects on health and wellbeing. In addition, we are exploring opportunities to improve and encourage local biodiversity and to maintain and enhance 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 EA Reports that will form part of our application for planning permission to 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.

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 surveying the offshore areas 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 environmental impacts;
- A Cetacean Survey to understand the distribution of fish species, which is a less intrusive method than traditional fish surveys. Cetacean sampling involves listening to the sounds made by marine mammals 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 fish are caught sustainably;
- 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 to reduce EMF in the marine areas of electrical energy associated with the use of electrical power.

Good practice 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.

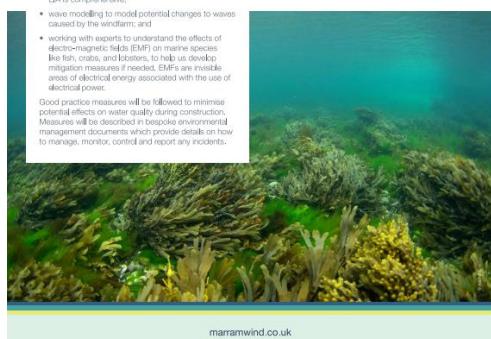
Listening to your feedback - protecting and enhancing marine environment

You said...

- "protecting and respecting marine life and habitat 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 understand the marine environment and meet the biodiversity requirements. The NPP will be submitted as part of our applications and there will be opportunities for public consultation through the consenting process in the same way as any mitigation and compensation measures.



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Commercial Fisheries

Respondents to our first round of statutory consultation rated commercial fisheries as the top five most important offshore topics that we should be considering.

To understand the activities of commercial fishing operators, MarramWind has met with fishing industry representatives, the project meets on a quarterly basis with various fishing organisations. We also met with the Scottish Fishermen's Federation and the Scottish Pelagic Fishermen's Association and their representatives during our first round of statutory consultation. These meetings highlighted an interest in understanding the potential impact of the project on fishing activity and cables to influence cetacean distribution. The fishing representatives shared their knowledge of certain areas that are good grounds for scallops, lobster pots, and trawlers 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. Burrows identified could possibly have been made by burrowing species such as the burrowing amphipod brown crab or European lobster. However, this does not indicate these species are not present as surveys are required to understand the species to understand marine areas, particularly in the nearshore areas, that are targeted for these species. Any potential requirement under the environmental permit during the pre-construction or post-construction stage of the project will be subject to advice from the Marine Directorate and NatureScot and consent conditions.



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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 will help us understand the patterns of other maritime users who pass through the windfarm site. This information is important as we prepare our Navigational Risk Assessment, following the guidance set out by the Oil and Gas Authority. The assessment will include detailed baseline data from our vessel traffic surveys, ensuring the safety and commercial viability of the windfarm site.

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 propose 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 proposed windfarm area boundary to better understand the local landscape character, key characteristics, landscape elements and visually sensitive areas.

Site location options B and C were assessed as most able to meet the visual requirements of the local landscape and visual sensitivity relative to the surrounding landscape. This largely down to the narrowness of the A950 corridor, which allows for a relatively narrow corridor to be installed along this part of the A950 corridor, which would allow a better fit with the existing landscape and visual context compared to other options. Options D and E and their relevance to a range of landscape and archaeological mitigation options to provide screening and improve the visual appearance of the development, including opportunities for landscape enhancement.



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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 very remote and a large substation in those locations would greatly exceed that of agricultural uses in the area. Therefore, there would be an eyesore in the local landscape."

You said...

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

Our response...

Substation option 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 scrubland. It is located between the two main roads 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 Wick and Thurso, resulting in some reduced sensitivity. It is also however acknowledged that the southern part of substation option C (around Hillhead of Cooksby) is visible from a wide area.

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



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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 reviews and field surveys, to inform the potential siting of onshore infrastructure. Surveys have been undertaken to identify local habitats and rare animal species, including two surveys of rare ground nesting ground nesting surveys, and collation of protected species data for otter, water vole, bats, and fish habitats.

Wherever possible, we will avoid identified nesting, roosting, commuting or foraging sites of protected or notable species, as well as sensitive seasonal periods for certain species. Where unavoidable, we will implement measures to restrict our works if they are considered to cause significant disturbance to waterbirds that use agricultural areas close to landfall. Habitats of high value to waterbirds, including wet meadows, wetland and river habitats, and dune habitats will be avoided wherever possible.

In addition to these measures, a Nature Positive Strategy has been developed, which sets out how MarramWind intends to measure, monitor and enhance biodiversity. The NPS will be used to develop an action plan 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 understand where necessary mitigation to protect local habitats and communities, as well as identifying opportunities for ecological enhancement. These enhancement opportunities will be used to inform the Nature Positive Strategy (NPS), which will identify a suite of measures to improve and encourage biodiversity and strengthen existing nature networks.



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Onshore water environment

The project area features various water bodies, including rivers, ditches and ponds. It is also home to a number of designated Areas of Special Interest, whose tributaries are 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 WFD 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 activities to the extent possible. For sensitive areas, such as the River Ugie, we will use techniques such as Horizontal Directional Drilling (HDD) to minimise impact. We will use a trenchless construction method for installing cables where it is necessary to cross sensitive features, such as rivers, and will use a cable puller to lay 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. We will also take measures to mitigate such developments 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 and will aim to avoid or minimise 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.

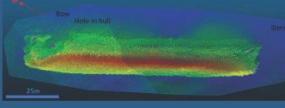
We have been undertaking surveys to obtain data crucial for identifying and protecting cultural and heritage assets. We will take care to ensure these and significant sites are avoided. Our survey methods include the use of sound waves to create detailed images of the seabed and what lies on and below it.

**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 *Chottenham* 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 Siberia. It was sunk by a German U-boat in 1917. It was torpedoed by the German U-boat U-52 on 11 September 1917 while sailing from Blyth to Archangelsk.

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 on local communities and the wider region. The two substation option sites are located near the A950 and the C888 Kinrara-Peterhead road. These roads are the main access routes to the proposed construction site from the A90. By choosing these substation sites, construction traffic will use the A90 and A950, which will minimise effects on the road network and reduce the impact on local roads. Major roads primarily pass through sparsely populated rural areas.

We will work with Transport Scotland and Aberdeenshire Council to identify and implement measures to mitigate any short-term effects on the road network to be used for construction access. Management and mitigation plans will be developed which will include a community liaison with other communities to manage effects of MarramWind and other sites being developed at the same time. The plans will include environmental management plans and measures 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 inconvenience of Site D on local traffic in Blackfriars.”

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 A950, which in turn can be accessed from the A90 via the Howie's Buchan Roundabout. The A950 passes through a generally rural area, is of a good standard and considered safe to use.

Site C is located adjacent to the undesignated road which links the A90 with Kinrara. The road is rural in nature, supports two-way operation and interchanges with the A90 via a large priority junction. The form of the undesignated road is considered able to accommodate the construction traffic.

Both sites are located within 5km of the A90 which is part of the main road network and provides a bypass around Peterhead. The location of these sites will support an access strategy which promotes access from the east to minimise the temporary effect of construction traffic on local communities including Blackfriars.

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 its supporting the implementation of measures to mitigate the temporary effects from construction traffic, particularly during the morning and evening peak periods. Measures will include:

- 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 congested areas;
- providing a suitable 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.

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

Air quality

The air quality in Peterhead and the wider Aberdeenshire area is very good. Aberdeenshire Council has been monitoring air quality in 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 activities, including construction traffic and dust along the exposed cable route and excavation points. These activities will be short-term 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 from the use of heavy machinery and vehicles. 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 level 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 assessments, noise and vibration 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 will be implemented to reduce the noise emissions.

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 proposed onshore substation for MarramWind. The assessment will draw on the results of background noise surveys carried out at sensitive locations around the proposed onshore substation. Any potential noise that could have a significant effect on sensitive locations will be evaluated within the EIA Report. Furthermore, noise limits will be agreed with Aberdeenshire Council and 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 will be 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 windfarm. A life cycle assessment of greenhouse gas emissions will be undertaken to identify appropriate mitigation measures. As part of the environmental management and development and environmental enhancements, we will be continuously looking for opportunities to incorporate measures that reduce greenhouse gas emissions during the construction and operational phases. Measures such as these will be reported within a carbon assessment as 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 independent consultant to renewable energy to conduct the research work. They will evaluate the overall effect of the windfarm on both civil and military aviation, including airspace users and radar systems. This will involve a detailed environmental impact assessment 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 the HRA are:

- **Special Areas of Conservation** (including those proposed but not yet formally designated), which are designated for the protection of rare or vulnerable species and habitats.

- **Special Protection Areas (SPA)** (including those proposed but not yet formally designated), which are designated for the presence of "qualifying features" that are rare or vulnerable in a European context, or requiring protection due to their habitat needs. Migratory bird species are also included as qualifying features in some cases.

- **Ramseur 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 potentially be affected. The report is submitted to Aberdeenshire Council and the Marine Directorate for review and consultation on 16th August 2024 as part of the statutory process. The report will be available 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 potential impacts on a qualifying feature on a designated site to occur and the Screening Opinion agrees with this conclusion, it will become necessary for the project to seek a formal opinion from both 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, it will provide information on the compensatory measures that could be delivered to mitigate impacts to designated sites. The Report to Inform Appropriate Assessment will be publicly available upon submission.

Listening to your feedback - climate considerations

You said...

“...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.”

Our response...

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 beyond. ScottishPower's parent company, has significant investment in renewable energy and low carbon projects, which includes offshore windfarms such as MarramWind.

MarramWind offshore windfarm is expected to generate enough electricity to power the equivalent of more than 3.5 million homes. This will reduce the carbon intensity of the UK energy system, as well as enhancing the UK's drive for energy security and green energy independence.

Our response...

Carbon emissions in the atmosphere have a global effect. Although when viewed on a local 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.

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How Will MarramWind Be Built?

Project Programme

Construction work is anticipated to commence in the late 2024/early 2025 period. 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 first turbines will be installed in 2026, with all to be installed sequentially. We will consider all options to minimise the impacts of a phased construction.

The total construction phase for the offshore infrastructure will be approximately 18 months, and the offshore wind turbines, is anticipated to be between eight and twelve years, but this timeline will be refined as design work begins and project planning, design and supply chain availability. The onshore cables and landfalls 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 cleared of any debris and any material 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. Burying the cables in the seabed will be done 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 on the floating unit offshore and then towed to site and connected to the pre-installed anchor and mooring system. Should there be advances in wind turbine installation technology, it is anticipated that turbines could be installed on the floating unit offshore.

Offshore substations

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

Offshore worker accommodation

The accommodation of crew will either be onshore vessels or within an accommodation and welfare block on the floating unit offshore. A separate accommodation platform is being considered but is unlikely to be taken forward due to the environmental effects and cost of a separate platform. The floating unit will 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 transhipment ahead of transit to the windfarm. Offshore windfarm activities are also dependent upon suitable port facilities.

We are currently engaging with a range of key stakeholders, including local authorities, port operators and other port users, to explore different options for port utilisation. We are also dedicated to investing in Scottish port and supply chain facilities to support the windfarm 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. In addition, the port will be used 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 required to support the delivery of the 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.

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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 or installed either directly in the trench or by HOD. Open cut construction involves digging a trench and laying the cables either directly in the trench or within a duct. The trench is then backfilled and the cable(s) are pulled or drawn through the duct at a later stage. A decision has not been made on the preferred option.

At the landfall, the required width of land required to install the cables will be 350m. The onshore part of the landfall will include up to six underground transition joint bays, which will be used to join the cables together. The offshore cable laying vessels will approach the shore as the marine cables will be pulled into the transition joint bays by machinery within a landfall.

This compound will be located above A90 at the landfall. The land will be reinstated after completion of the construction phase. An inspection chamber or access point will be located on the landfall, which will be in place at the transition joint bays. The location of the compound at the landfall is still to be determined.

Access to landfall construction steps may require temporary access routes and/or the strengthening of existing roads. The location of the landfall compound will be determined by the location of the temporary landfall construction area. MarramWind will require the temporary landfall construction area for the A90 for delivery and removal of construction materials.

Onshore

Onshore cables

The temporary onshore construction corridor is required to be 30m 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 to accommodate the required number of access at crossings, avoidance of obstacles, and HOD.

Up to two main, temporary, construction compounds will be required close to the onshore cable corridor. These will be used to store materials, equipment, facilities, storage, accommodate building materials, parking, and site offices. We will identify where these will be located through environmental and technical assessments and environmental management.

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 trench in multiples, or ducts may be installed in separate 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 completion of the trench, the trench and the trench compounds will be removed. Where it is necessary to cross sensitive features, such as watercourses, reinforced concrete structures will be used. Other protection methods such as HOD will be used to install ducts under the crossed feature. The cables are then pulled through the trench and laid out.

The underground cables will be installed in sections. Joint boxes will therefore be installed at intervals along the cable route to enable the cable installation and connection process. These joint boxes will be underground, and will be located at ground level or above ground level. Link boxes enable electrical connection and testing to be carried out during operation.

Access for construction vehicles to the temporary onshore construction compound and/or vendor 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, buildings, installation and commissioning of electrical equipment, drainage, environmental mitigation and landscaping. The onshore substation infrastructure will be built with the same materials as are being used over the anticipated eight to twelve year construction period (the expected period for the onshore infrastructure construction and decommissioning). This will allow for the delivery of construction materials and electrical components, so an interim compound will be constructed.

A temporary construction compound will also be required but will be demolished 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 plant. However, there will be the potential for abnormal loads to enable the delivery of large electrical equipment such as electrical transformers.

Onshore worker accommodation

The accommodation requirements for onshore workers will be determined by the number required and will be 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.



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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:

- careful planning and scheduling - we will develop a construction plan that sequences 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 the time required for each stage of the construction process;
- 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 manager. 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 manage 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 accountability between all contractors to ensure a safe, efficient, and timely completion of the offshore infrastructure. We are committed to engaging with stakeholders throughout the construction process, providing regular updates and addressing any concerns promptly.

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 input and have been able to refine our project design. Providing a completed project plan at consultation would have limited how much of our design stakeholders could influence.



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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 carried out. This will require access to the Link boxes along the cable route, which will involve attending the lighter or supply vessel, and will involve using marine field access.

The offshore 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 work will depend on the infrastructure used, depending on the type of wind turbines, floating platforms, 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 to support the removal of equipment during the operation of the windfarm. For major component repair, it may be necessary to tow turbines to port, although techniques 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 issues 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 ensure that the decommissioning process is designed during design and development. The decommissioning works are likely to be undertaken in reverse of the construction process of MarramWind. The decommissioning programme will be developed to define the decommissioning methodologies that might be used. It will be updated prior to construction and updated as the project progresses, with respect to account for any changes to industry best practice, relevant legislation and policy, or developments in technology.



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 bodies to support the growth of Scotland's offshore wind industry. These will be over and above the programmes Shell and SPP already support.

Industry and Supply Chain

Scotland is a pioneer in floating wind, having delivered the world's first floating wind farm in 2017. MarramWind will be the world's largest floating wind farm, located in the world's largest floating wind leasing round, ScotWind. We are committed to helping Scotland and the UK capitalise on this market-leading position, and to supporting the growth of the supply chain from Scottish and UK companies, as outlined in the MarramWind Supply Chain Development Statement.

The project is currently set to meet most of its early procurement and executive delivery 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 Survey 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 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
- continuing engagement with public and private sector partners to explore opportunities to support the growth of Scotland's offshore wind industry.



Employment and skills

The growth of Scottish offshore wind will create opportunities for people entering the workforce or pursuing further training and development in the oil and gas sector. MarramWind will increase demand for local labour when the opportunity from MarramWind and the project is realised.

To help local communities take advantage of these opportunities, we will continue working with the communities surrounding our energy projects and we want to support the local area of Scotland and receive feedback from our first round of statutory consultation on the MarramWind project. This will be one of 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.

Listening to your feedback - benefits and opportunities

You said...

- “...a scholarship should be created for local high schools e.g. Methil/Peterhead.”

Our response...

It is important for us that local communities to MarramWind see benefits from the project. One of these will be job creation during construction and operational phases, and the opportunity for local 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 be encouraged to charge electricity and roads and associated infrastructure should be upgraded.”

Our response...

The ability to deliver cheaper electricity from MarramWind to local communities will be a key benefit of the project. We will work 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, and then there would 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.

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 used 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 benefit. Community Benefit Funds are only used in the renewables 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 firms 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 potentially £9.5bn. Our commitments and ambitions are based on the capacity and capability 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, the supply of materials and services to the project during 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.



marramwind.co.uk

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 while 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 Floating 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 Cliestill Primary School;
- engaging in the Buchan Deal-Element 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 MarramWind 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 developer moves forward from project to project, and this poses significant challenges to coordination. However, some energy projects' plans in the northeast of Scotland have been delayed as they progress through the development phase. Where potential overlaps in proposed infrastructure are emerging, we are working closely with our neighbours to ensure 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 across the project area. The consultation, as well as a virtual exhibition space on our website, gave members of the local community and other interested stakeholders the chance to learn more about the proposals and influence how the project is progressed. Dedicated engagement sessions were also offered to locally elected representatives, Community Councils, business leaders and other stakeholders, providing 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 to follow us on social media, or email us with 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 enough information 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 consultation, we developed 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 Original 106;
- posters displayed in local public buildings;
- emails and letters sent to statutory and non-statutory stakeholders and key community representatives including Community Councils, Councillors, 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 (already underway), 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 project, we would like you to share your feedback with us and let us know what you think. Your feedback is important to us and all feedback 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 your comments at stakeholder@marramwind.com.
- Fill in a paper feedback form. These will be available through the post and available at our two consultation events and at Peterhead Library.

Write to us at **FREEPOST MarramWind**. This consultation will run from **9 October 2024 to 11:59pm 10 November 2024**. Feedback received after this deadline may be considered, but we cannot respond to individual responses.

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 and how it has influenced the final design. We will present all feedback received at this consultation and the one we delivered earlier this year, and provide a summary of this in the MarramWind 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 and will not be considered by the Scottish Ministers. Following the submission of our planning application, which we intend to submit in late 2025, we will seek formal and formalised 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, 10am – 7pm, Palace Hotel, Prince St, Peterhead AB42 1PL.
- Wednesday 30 October 2024, 1pm – 7pm, Longside Inn, Longside, Aberdeen, AB42 4GP.

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. Following the submission of our consent applications 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.

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Glossary

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

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

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

Digital twin survey: 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 environment.

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

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

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

Floating unit: a floating structure on which the wind turbines are installed, providing a wind boundary 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: a 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. Alternating current is used in homes and industry. 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 Transmission Company (NGE). It provides a recommended offshore and onshore design for connection of offshore wind projects to the UK electricity grid. The HND has been established to facilitate the UK Government's ambition for 50GW of offshore wind by 2030.

Offshore substation: the substation on land that connects the power generated 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.

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 where 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 total 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 total height throughout the year of two successive low waters during those periods of 24 hours when the range of the tide is at its lowest.

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

Offshore substation: an onshore substation generating electricity from wind turbines and preparing it for transmission to shore via cable.

Onshore substation: the substation on land that connects the power generated 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.

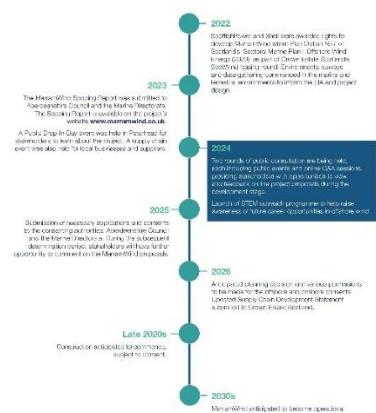
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Project Programme

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 reviewing options for the best way to 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 HVDC power directly into the cables, which then connect to the national grid. Due to the long distance of the cables, it is more effective to convert the HVDC transmission to HVAC transmission as HVDC cables are more expensive to lay and electricity is converted back to HVAC at a converter substation onshore.

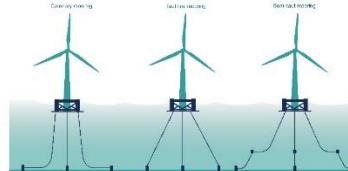
The infrastructure required for both options is broadly similar, but HVDC will require an offshore converter platform, whereas an offshore platform or equipment to stabilise the voltage of the electricity generated.

Differences include the number and size of the cables needed to deliver power to the national grid.

The floating wind turbines

The turbine technology is advancing quickly so we have not chosen the turbine models yet, but we expect each turbine to produce up to 25 megawatts (MW) of power. Depending on the chosen technology, the turbines will have a diameter of between 100m and 200m, with 225 turbines, each with three blades.

The hub height of the turbines is expected to be around 220m, with the nacelle and tower to be installed on the turbines and floating units to reduce navigational and aviation risk.



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 structures including 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 assessments.



Map showing offshore cable corridor

The windfarm site

The relevant site covers the area of Pittenpont Ness, which was identified for development by the Scottish Government's Strategic Marine Plan - Offshore Wind Energy in 2020. The area is approximately 10km from the coast and has water depths ranging between 17m and 134m. Work is ongoing to determine the windfarm site layout and exact locations of the turbines. The seabed is composed of sand and gravel, with some areas of rock and rock banks (a layer of fragmented rock) and rock bars (a layer of fragmented rock) laid over the seabed. The seabed is also being reviewed to determine opportunities to reduce impacts to marine life, such as those with licences in the region.

Offshore cable corridor

Initial work is also ongoing to identify the best route for the offshore cables between the windfarm site and landfall(s) on the coast. This considers environmental sensitivities, such as seabird colonies, and technical factors, such as the seabed morphology, to determine the best route that could fit in the technical feasibility of installation. We are engaging closely with technical stakeholders, such as National Grid, to determine the best route. The corridor is also being reviewed to reduce effects on marine life, such as those with licences in the region.



Offshore Project Updates

Landfall

At our previous consultation, the potential landfalls of Scalloway Beach, Lunderon and Sandness Bay were presented.

With consideration of environmental and technical requirements and stakeholder feedback, the northern route was chosen. This is due to the proximity to the Buchan Ness to Collieston Coast Special Protection Area (SPA) – a designated breeding ground for seabirds. Other projects in the vicinity that will limit space for cables and encroach into the corridor.

As the insurance approach to Sandness Bay has been discounted, the southern edge of the SPA is no longer a potential landfall. The area has been reduced (shown in the grey hatched area on the map). However, the southern cable corridor remains in place as it can form an alternative route for the cable to land. A section south of Peterhead (shown in grey on the map) is being explored for feasibility but has not yet been surveyed. It is planned to offer design flexibility. It is possible that the southern route and the orange corridor will be considered to discount, but this is to be determined.

Scalloway Beach and Lunderon are still available locations for landfalling from environmental and technical perspectives. It is possible that both will be taken forward, or a third location will be identified. Until then, it is not possible to confirm this yet as we must ensure these are suitable spaces for the cable to connect to, and for the cable to be敷設. Within the chosen landfalls, a more refined corridor will be identified where the offshore cables will be installed.

The location of the landfall will depend on further engineering and environmental considerations and ecological surveys.



Map of potential offshore cable corridor options



Onshore Key Infrastructure

The onshore infrastructure includes an onshore substation and onshore cables. The onshore cables run from (landfalls) to the onshore substation and subsequently to the point of connection at the SSE Netherne Hub substation.

Onshore cables

The cables will be laid underground within a cable corridor at an average depth of 1-3m. 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 cable corridor will be approximately 10m. The corridor for the underground cable will be approximately 135m. Following cable installation the project will require permanent access rights for maintenance purposes.

Onshore substation

The onshore substation is a key part of the project's onshore system. This is where the voltage of the electricity generated is transformed to the voltage levels required for the national grid.

The substation will be fully of partially enclosed as required by these regulations. Images of the final substation site have 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.

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 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 effects.

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

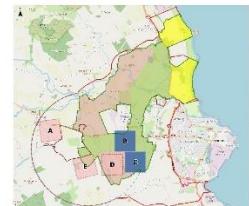
- the shortlisting of two onshore substation options (A and C) on the map from two:
- the removal of Sandford Bay as a finalist
- confirmation the project grid connection point will be in the southeastern corner of the search area
- the removal of the onshore cable corridor

The map shows the search area and the grid connection point of the proposed SSE Netherne Hub, and the previous five substation site options. The map requires the reader to zoom in to see the site in more detail.

Based on the results of further environmental and technical assessments undertaken since the first round of statutory consultation, we are seeking stakeholder and public feedback on the revised substation options A, B and C and have been re-projected to focus on a primary and alternative cable corridor (shown in green and brown respectively on the map).

These two cable corridors contain viable routes. The primary cable corridor is shorter and more direct than the alternative corridor. However, there are other factors to be considered, including engagement, stakeholder feedback, an environmental and technical assessment of the revised options A, B and C.

The next step will be to identify a preferred 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 Booklet.

Options, wildlife and habitats
We will need permission to lay our onshore cables and to build the substation. We will need to understand the potential effects on the environment and local communities. This assessment will take into consideration stakeholder feedback received as part of this consultation. Further to this, we will need to consider the effects of the cable corridor and the substation on the local environment and to work with statutory consultees. The outcome of this initial design and site selection process will be reported on in the Environmental Impact Assessment Report.
Onshore cable corridor
With the removal of Sandford Bay, there is no need to lay a cable from Sandford Bay to the substation. With three substation options also removed, no cable corridor is required to connect the remaining four substation sites. The cable corridor will be removed and adjusted to focus on a primary and alternative cable corridor (shown in green and brown respectively on the map). These two cable corridors contain viable routes. The primary cable corridor is shorter and more direct than the alternative corridor. However, there are other factors to be considered, including engagement, stakeholder feedback, an environmental and technical assessment of the revised options A, B and C.
Onshore substation
We will need permission to build the onshore substation. We will need to understand the potential effects on the environment and local communities. We will need to consider the effects of the substation on the local environment and to work with statutory consultees. The outcome of this initial design and site selection process will be reported on in the Environmental Impact Assessment Report.
Air quality
We will need to lay our onshore cables and to build the substation. We will need to understand the potential effects on the environment and local communities. We will need to consider the effects of the substation on the local environment and to work with statutory consultees. The outcome of this initial design and site selection process will be reported on in the Environmental Impact Assessment Report.
Climate change
We will need to lay our onshore cables and to build the substation. We will need to understand the potential effects on the environment and local communities. We will need to consider the effects of the substation on the local environment and to work with statutory consultees. The outcome of this initial design and site selection process will be reported on in the Environmental Impact Assessment Report.
Greenhouse gas emissions
We will need to lay our onshore cables and to build the substation. We will need to understand the potential effects on the environment and local communities. We will need to consider the effects of the substation on the local environment and to work with statutory consultees. The outcome of this initial design and site selection process will be reported on in the Environmental Impact Assessment Report.
Groundwater
We will need to lay our onshore cables and to build the substation. We will need to understand the potential effects on the environment and local communities. We will need to consider the effects of the substation on the local environment and to work with statutory consultees. The outcome of this initial design and site selection process will be reported on in the Environmental Impact Assessment Report.
Health and safety
We will need to lay our onshore cables and to build the substation. We will need to understand the potential effects on the environment and local communities. We will need to consider the effects of the substation on the local environment and to work with statutory consultees. The outcome of this initial design and site selection process will be reported on in the Environmental Impact Assessment Report.
Noise and vibration
We will need to lay our onshore cables and to build the substation. We will need to understand the potential effects on the environment and local communities. We will need to consider the effects of the substation on the local environment and to work with statutory consultees. The outcome of this initial design and site selection process will be reported on in the Environmental Impact Assessment Report.
Planning
We will need to lay our onshore cables and to build the substation. We will need to understand the potential effects on the environment and local communities. We will need to consider the effects of the substation on the local environment and to work with statutory consultees. The outcome of this initial design and site selection process will be reported on in the Environmental Impact Assessment Report.
Soil
We will need to lay our onshore cables and to build the substation. We will need to understand the potential effects on the environment and local communities. We will need to consider the effects of the substation on the local environment and to work with statutory consultees. The outcome of this initial design and site selection process will be reported on in the Environmental Impact Assessment Report.
Water
We will need to lay our onshore cables and to build the substation. We will need to understand the potential effects on the environment and local communities. We will need to consider the effects of the substation on the local environment and to work with statutory consultees. The outcome of this initial design and site selection process will be reported on in the Environmental Impact Assessment 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 sites considered in the HRA are:

- **Special Areas of Conservation** including those proposed but not yet formally designated, which are designated for the presence of "qualifying features". These may include specific habitats, communities of habitats, species or combinations of species or combinations of these.
- **Special Protection Areas (SPA)** including those proposed but not yet formally designated, which are designated for the presence of "qualifying features" that are important for the breeding, resting, feeding or roosting of birds. These sites are areas that are vulnerable, in danger of extinction, or requiring protection due to their habitat needs. Migratory bird species are also included in qualifying features in some SPAs.

- **Ramsar Sites**, which are designated for the presence of "qualifying features" that are different to other sites of international importance. These sites are areas that are vulnerable, in danger of extinction, or "likely significant effects" on a designated site to occur if the Screening Opinion agrees with this conclusion. It will become a nationally important Site of 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 PIA to support the consenting applications. If necessary, this will provide information on the compensatory measures that will be put in place to mitigate any negative effects to designated sites. The Report to inform Appropriate Assessment will be publicly available upon submission.



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 MarramWind

You Said...

Listening to your feedback - landscape and visual considerations

You Said...

...there is a concern about the visual impact of the turbines.

Our response...

The visual impact of the proposed turbines will be minimised through the design of the turbines and the siting of the turbines to ensure they are not visible from the public highway or any other public areas.

You Said...

...concern about G2 and G3 being visible from the public highway.

Our response...

Staggered approach to tower heights, combined with the tower design, will ensure the turbines are not visible from the public highway. The turbines will be located on the site to minimise the impact on the landscape and the visual impact will be minimised through the design of the turbines.

You Said...

...after the preferred option was selected, there is a concern about the visual impact of the turbines and the resulting landscape and visual impact of the turbines on the landscape.

Our response...

Staggered approach to tower heights, combined with the tower design, will ensure the turbines are not visible from the public highway. The turbines will be located on the site to minimise the impact on the landscape and the visual impact will be minimised through the design of the turbines.

Listening to your feedback - adapting and enhancing onshore environment

You Said...

...other local habitats, flora, fauna, flora and fauna, and the environment in general, are a concern about damage to habitat and loss of habitat.

Our response...

of 2010, the UK's first biodiversity strategy, makes clear that habitat protection and enhancement must be a key priority for the development of the energy sector. MarramWind has developed a detailed environmental mitigation plan to ensure that the proposed development will not have a significant impact on the local environment.

Listening to your feedback - onshore water environment considerations

You Said...

...there is concern about damage to drinking water from salts.

Our response...

Our detailed environmental impact assessment and mitigation plan will ensure that the proposed development will not have a significant impact on the local environment.

You Said...

...there is concern about local drainage and damage to water courses.

Our response...

Our detailed environmental impact assessment and mitigation plan will ensure that the proposed development will not have a significant impact on the local environment.

Listening to your feedback - climate considerations

You Said...

...there is concern that there may be an increase in reducing rainfall and the impact of the turbines on the local environment.

Our response...

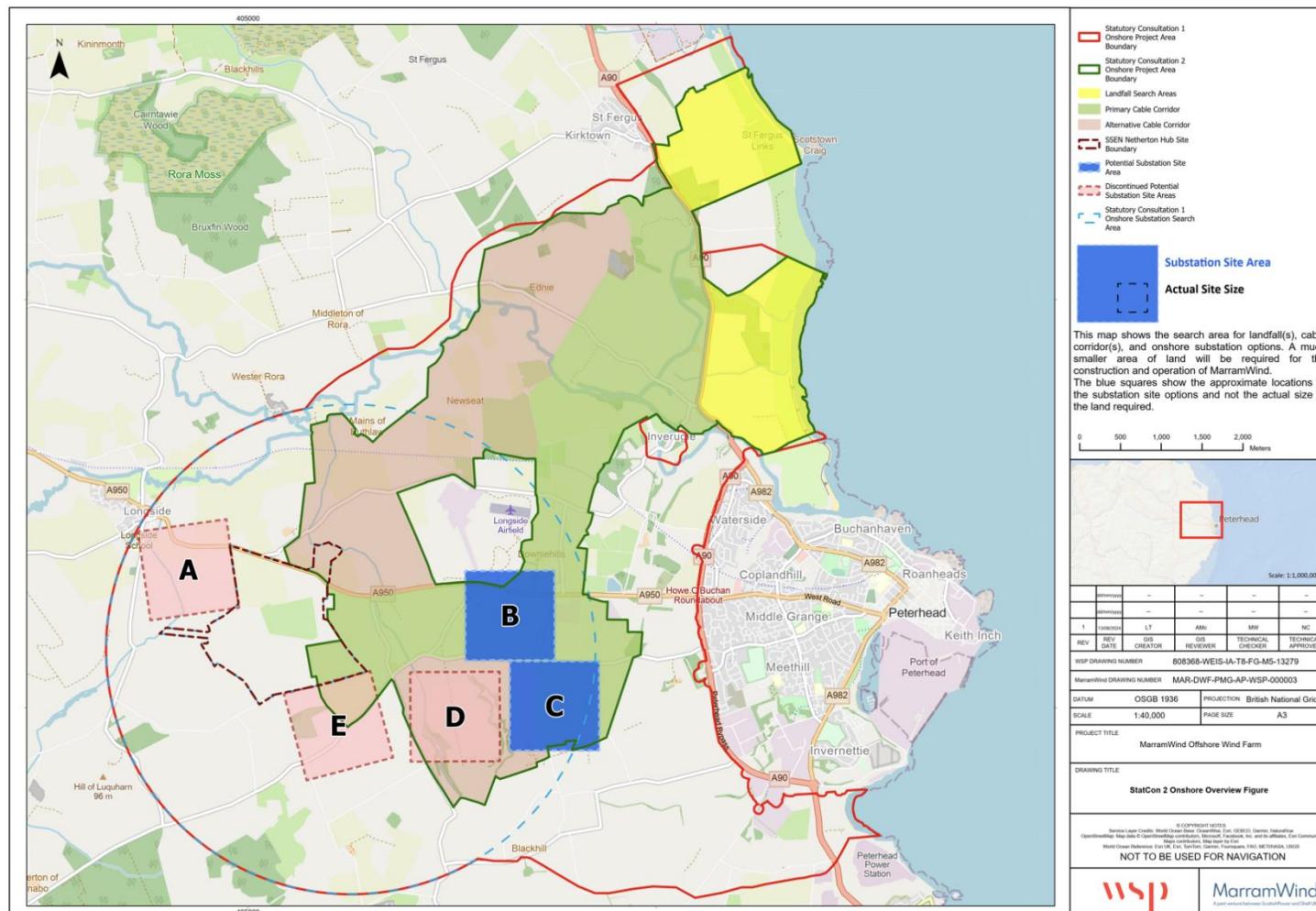
Our detailed environmental impact assessment and mitigation plan will ensure that the proposed development will not have a significant impact on the local environment.

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

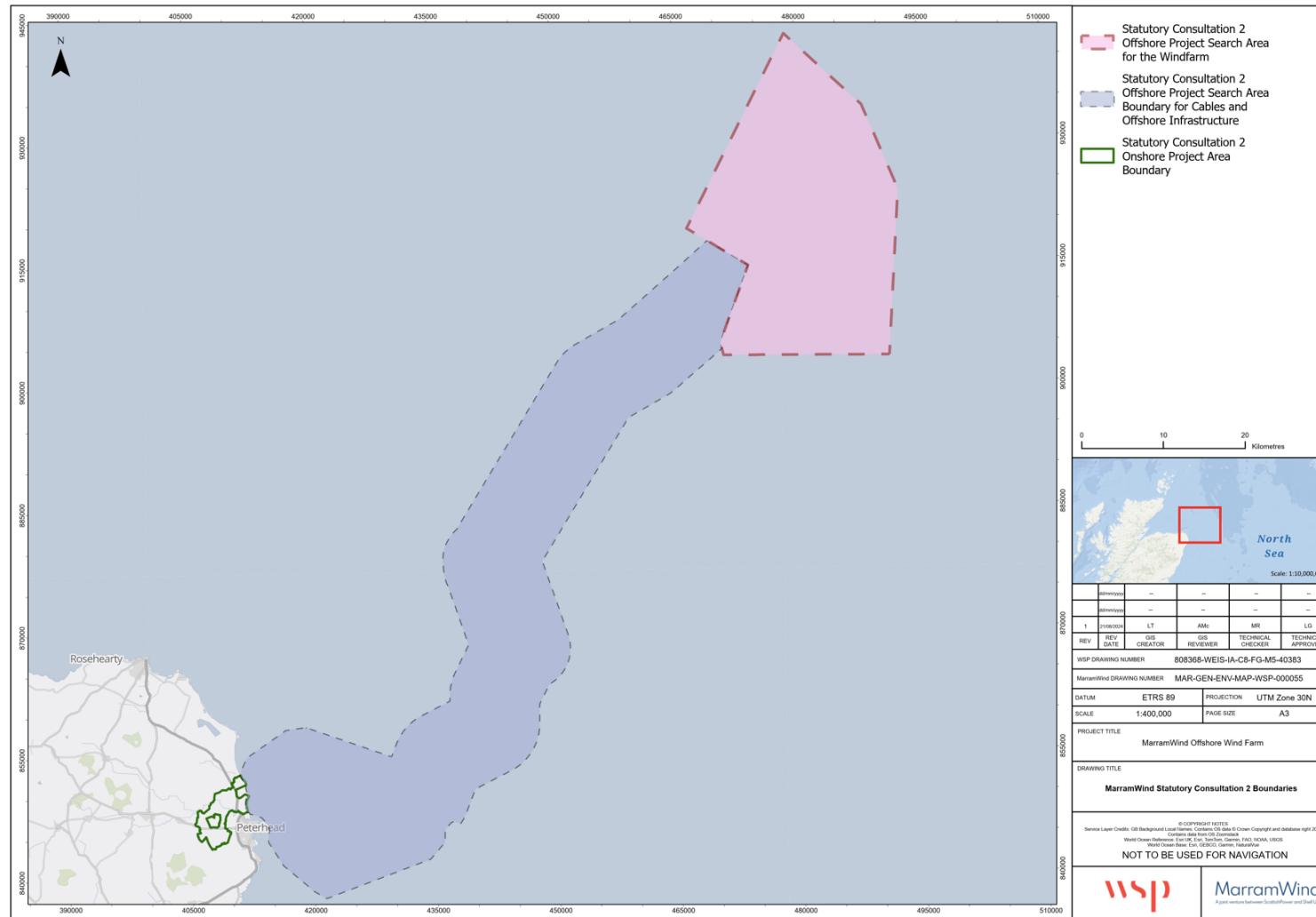
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5.2 Maps

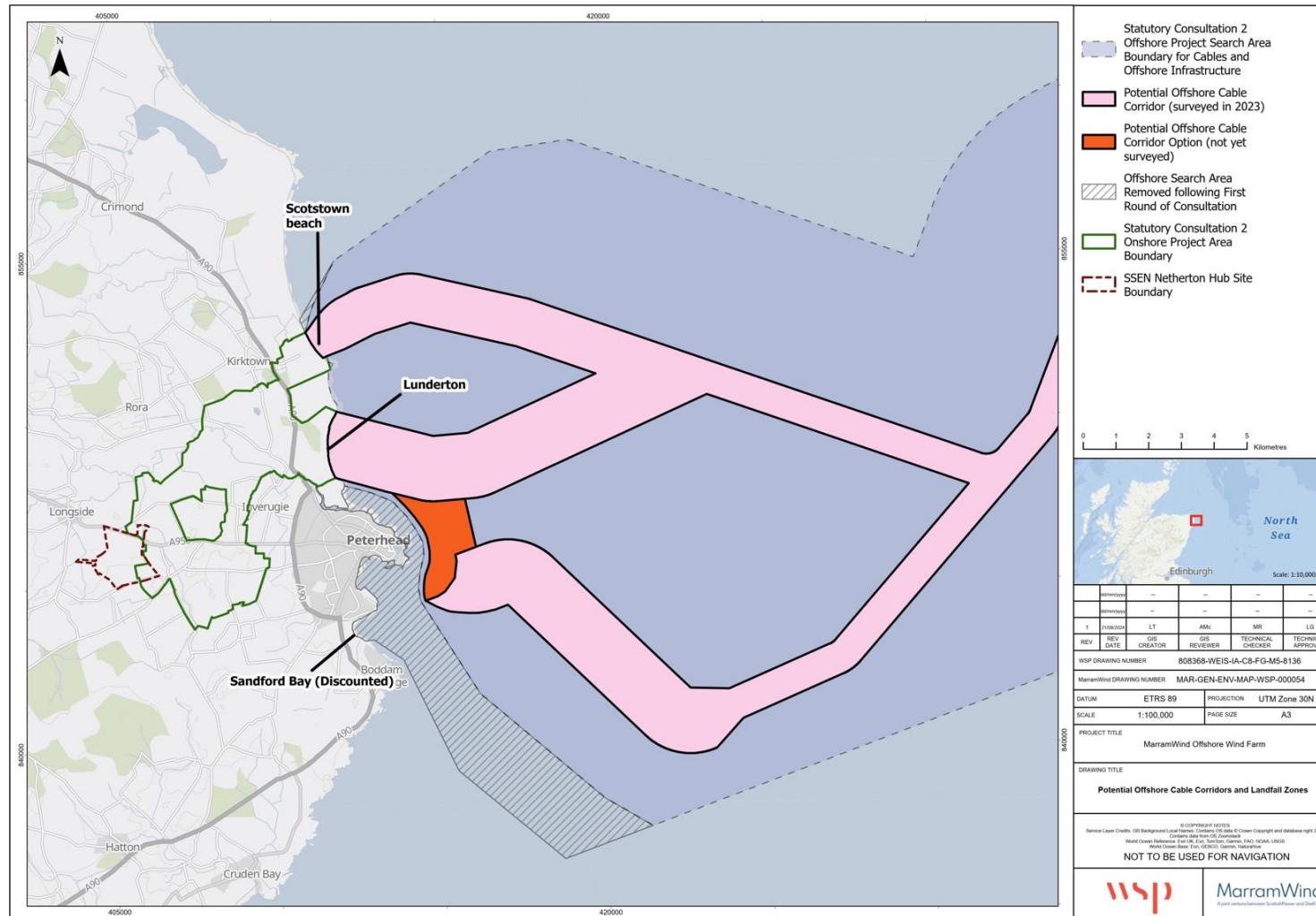
5.2.1 Statutory Consultation 2 onshore overview figure



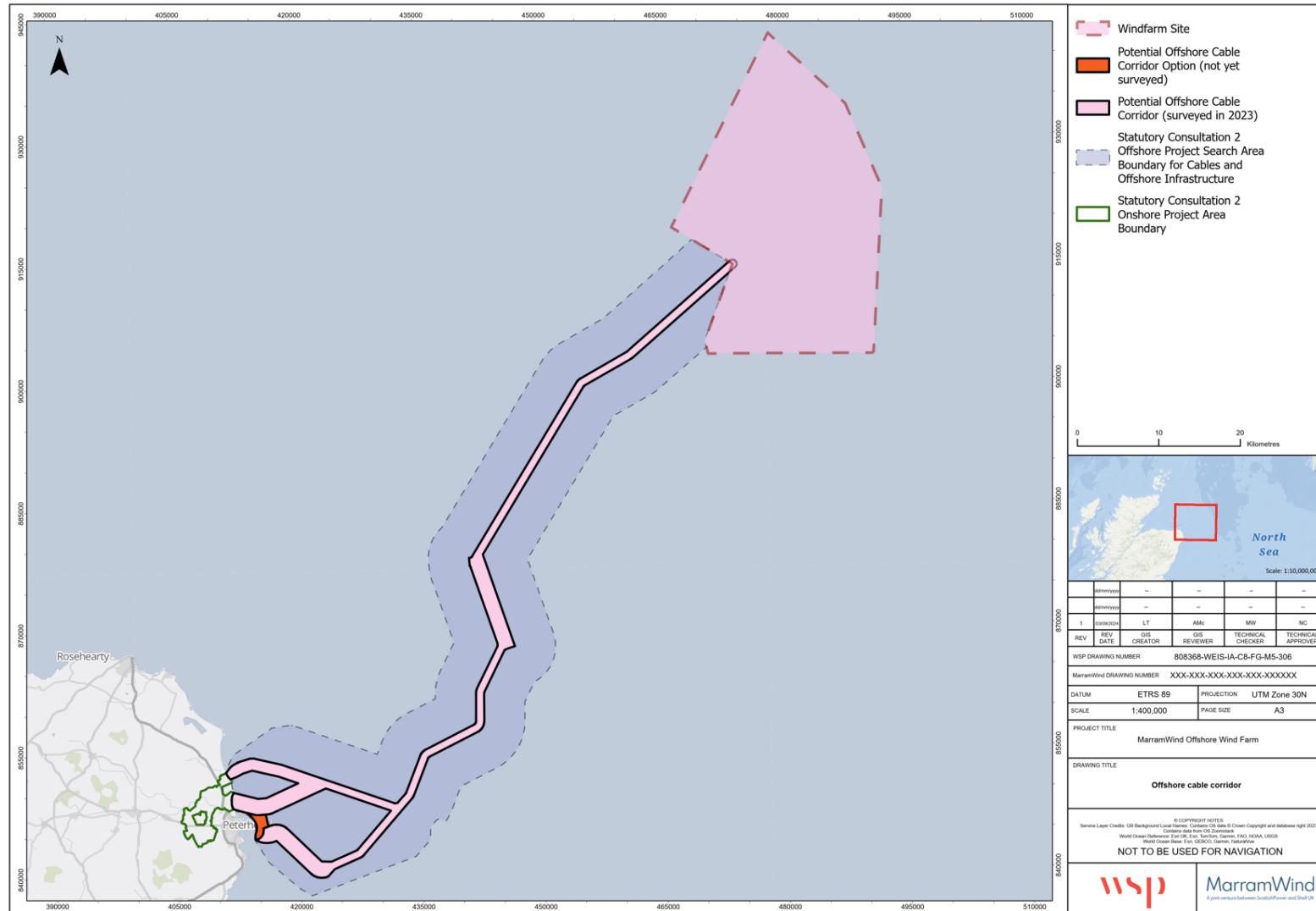
5.2.2 MarramWind Statutory Consultation 2 boundaries



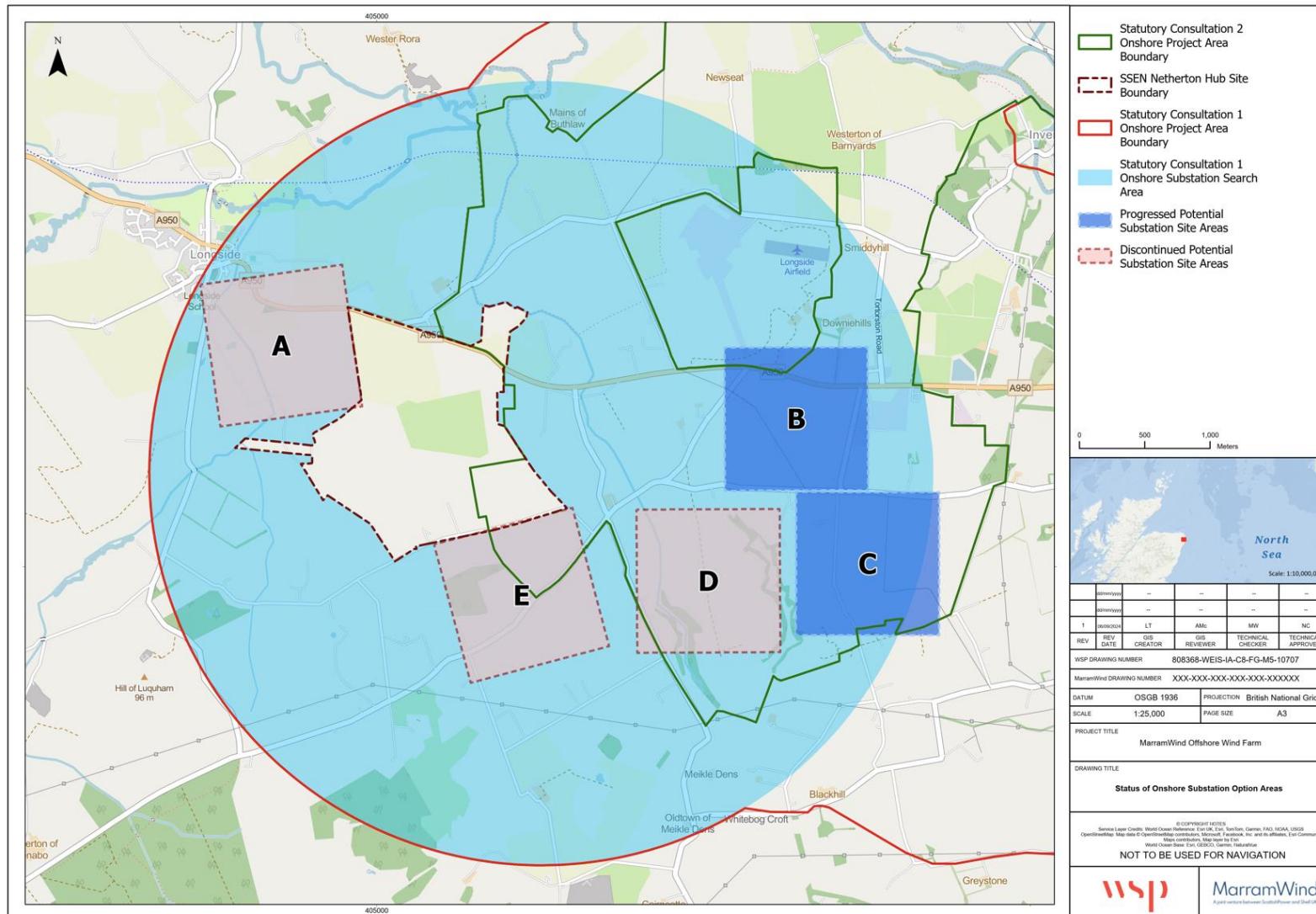
5.2.3 Potential offshore cable corridors and landfall zones



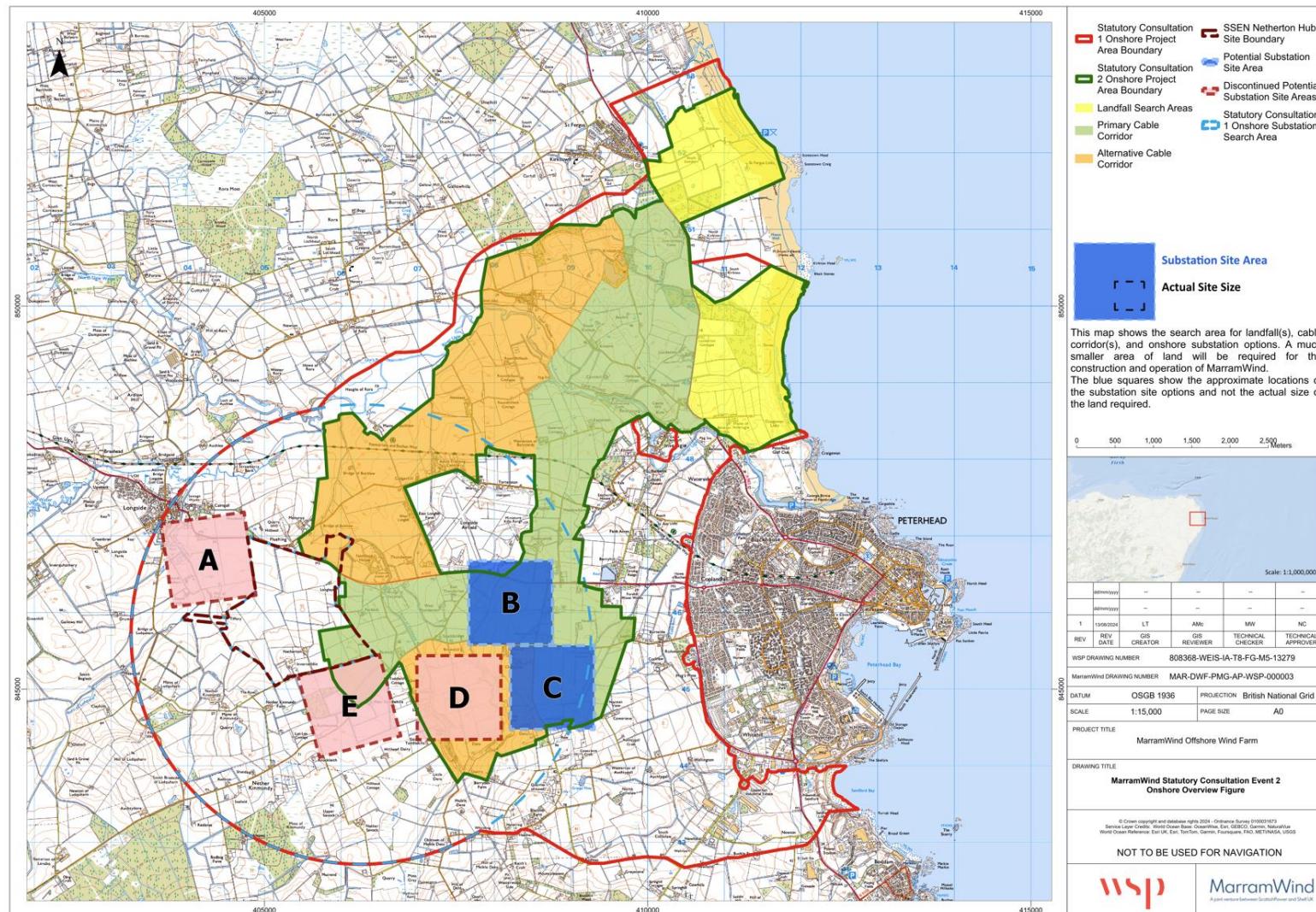
5.2.4 Offshore cable corridor



5.2.5 MarramWind Offshore Wind Farm



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.

Benefits and Opportunities

This section focuses on the benefits and opportunities that could be delivered as a result of MarramWind (including supply chains, employment and skills and a Community Benefit Fund), as presented on pages 37 to 38 of the consultation booklet.

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

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

Feedback on consultation

We would now appreciate some feedback on our consultation itself.

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

Very good Good Fair Poor Very poor

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

Very good Good Fair Poor Very poor N/A

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



Handwriting practice lines consisting of five horizontal rows. Each row is defined by a solid top line, a dashed midline, and a solid bottom line. The rows are evenly spaced vertically across the page.

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

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



The slide features the MarramWind logo in the top left corner, which includes the text 'MarramWind' and a stylized circular icon. The main title 'Second Statutory Consultation' is in large white font, with 'Q&A' in a smaller white font below it. To the right of the text is a graphic of blue and green concentric circles. At the bottom right are the logos for ScottishPower Renewables and Shell.

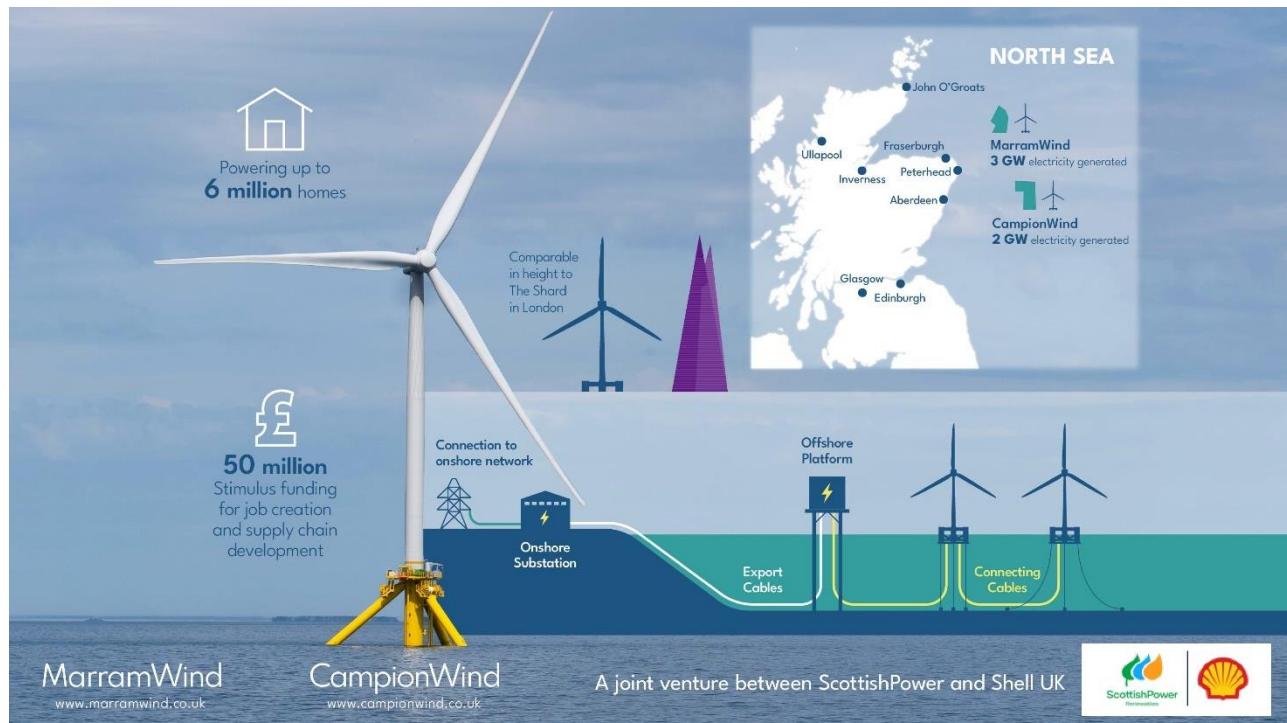
Agenda

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



Project Overview

Richard Eakin, Project Director



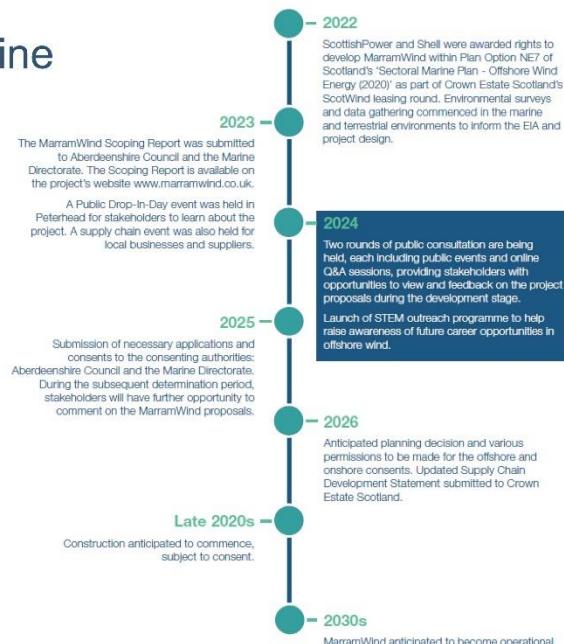


Developing MarramWind

Colin Anderson, Development Manager

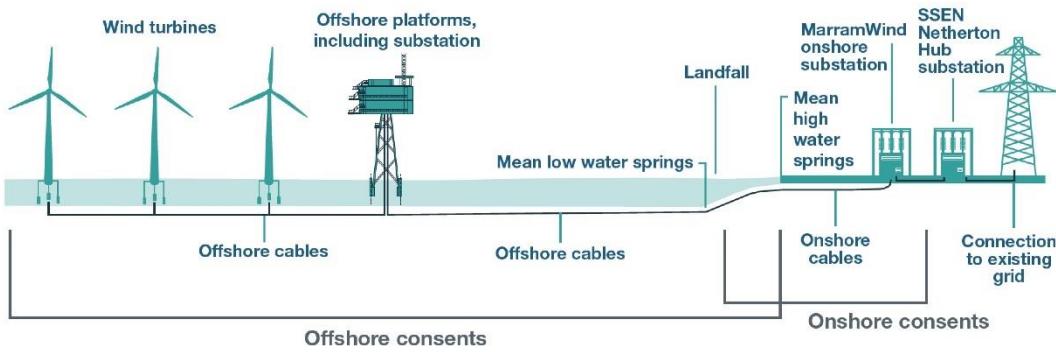


Project Timeline



Developing MarramWind

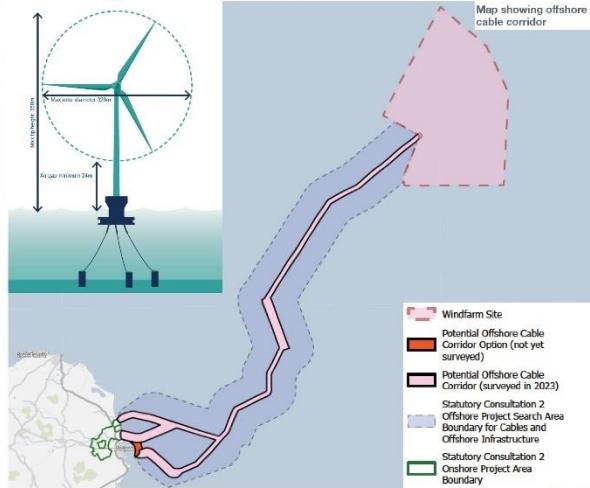
The consenting process



Offshore infrastructure

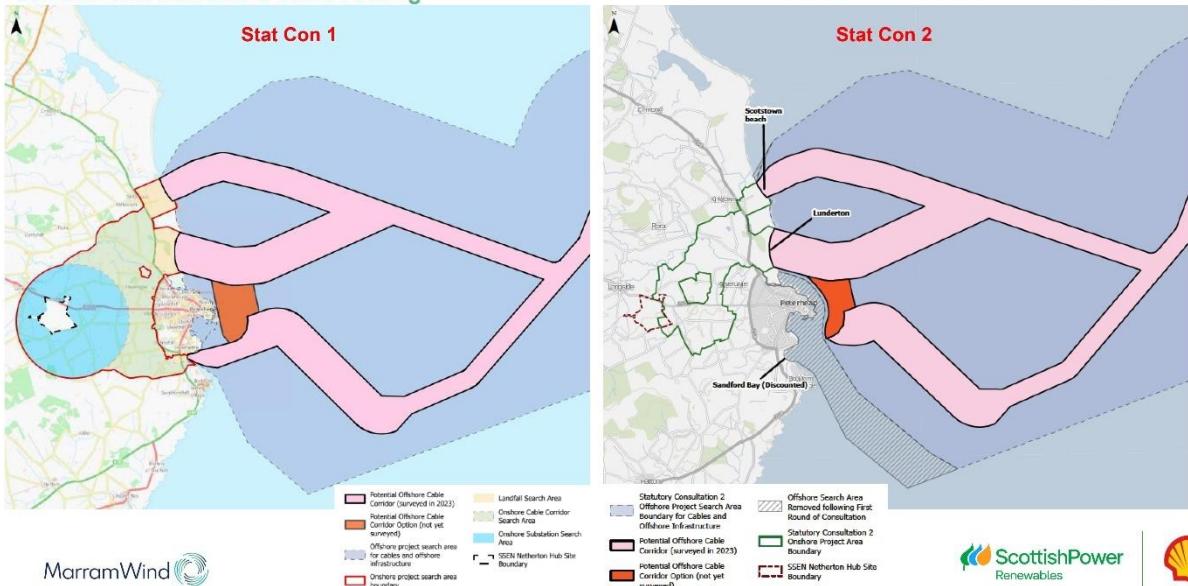
The windfarm expects to produce up to 3GW of clean energy

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*



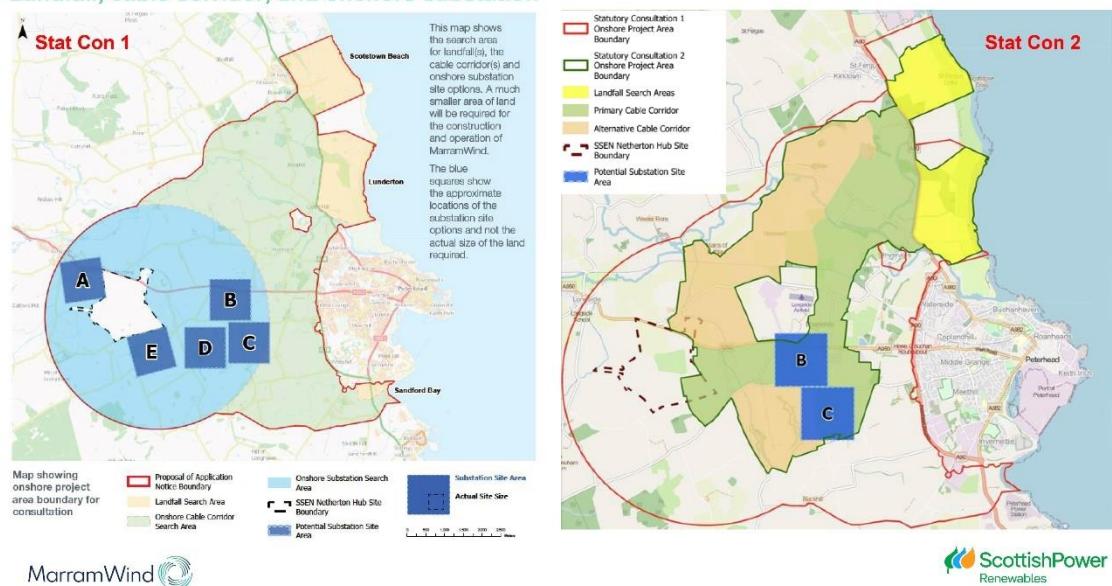
Offshore infrastructure (ctd)

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 a 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 Maclarens – Landowner Engagement

MarramWind 



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



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Supply Chain Portal

Register your interest in being a supplier to MarramWind

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

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

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

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



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.





Thank you



5.4 Full analysis of feedback

5.2.7 Offshore

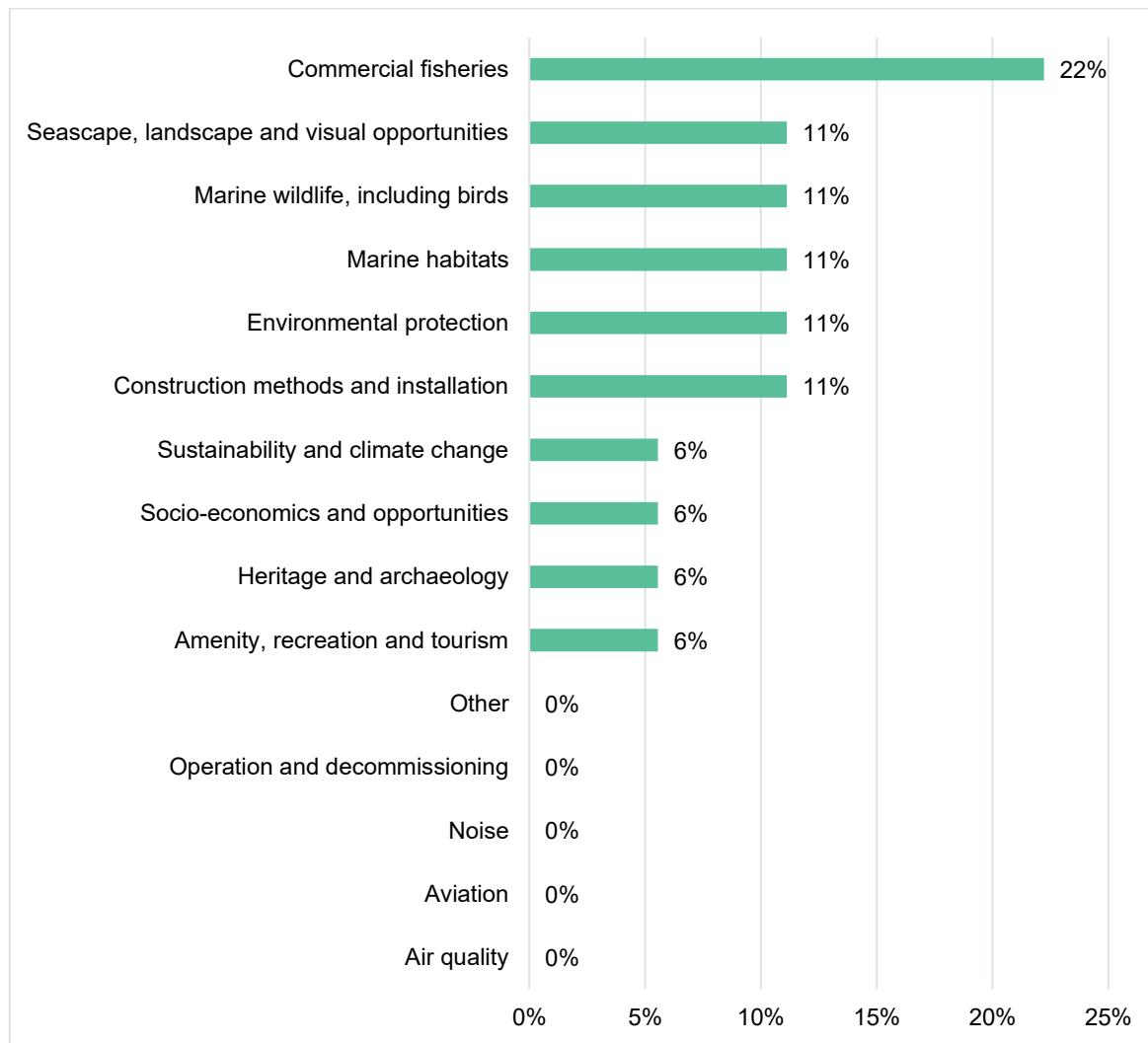
Question 1) With consideration to our updated proposals for the offshore project design and infrastructure, which of the following aspects are most important to you?

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.

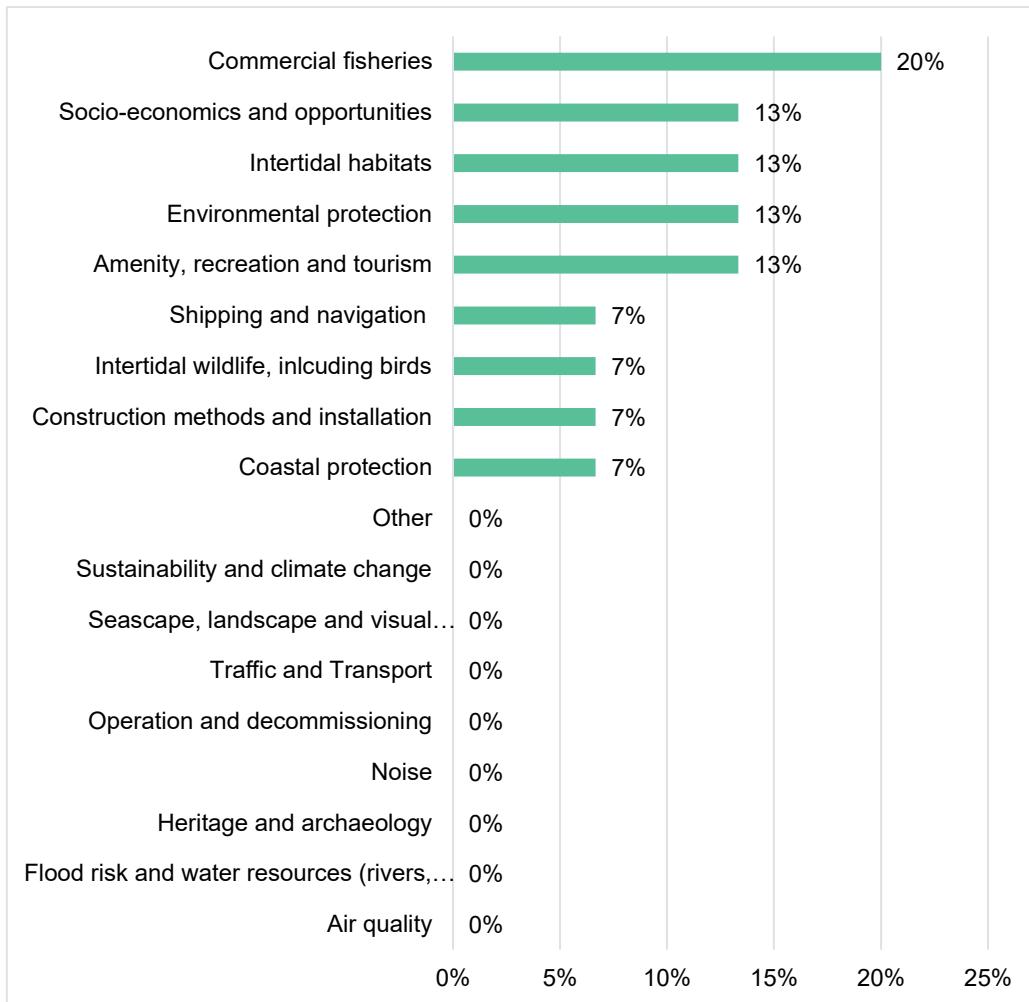
Each respondent was allowed to select up to three aspects.

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.

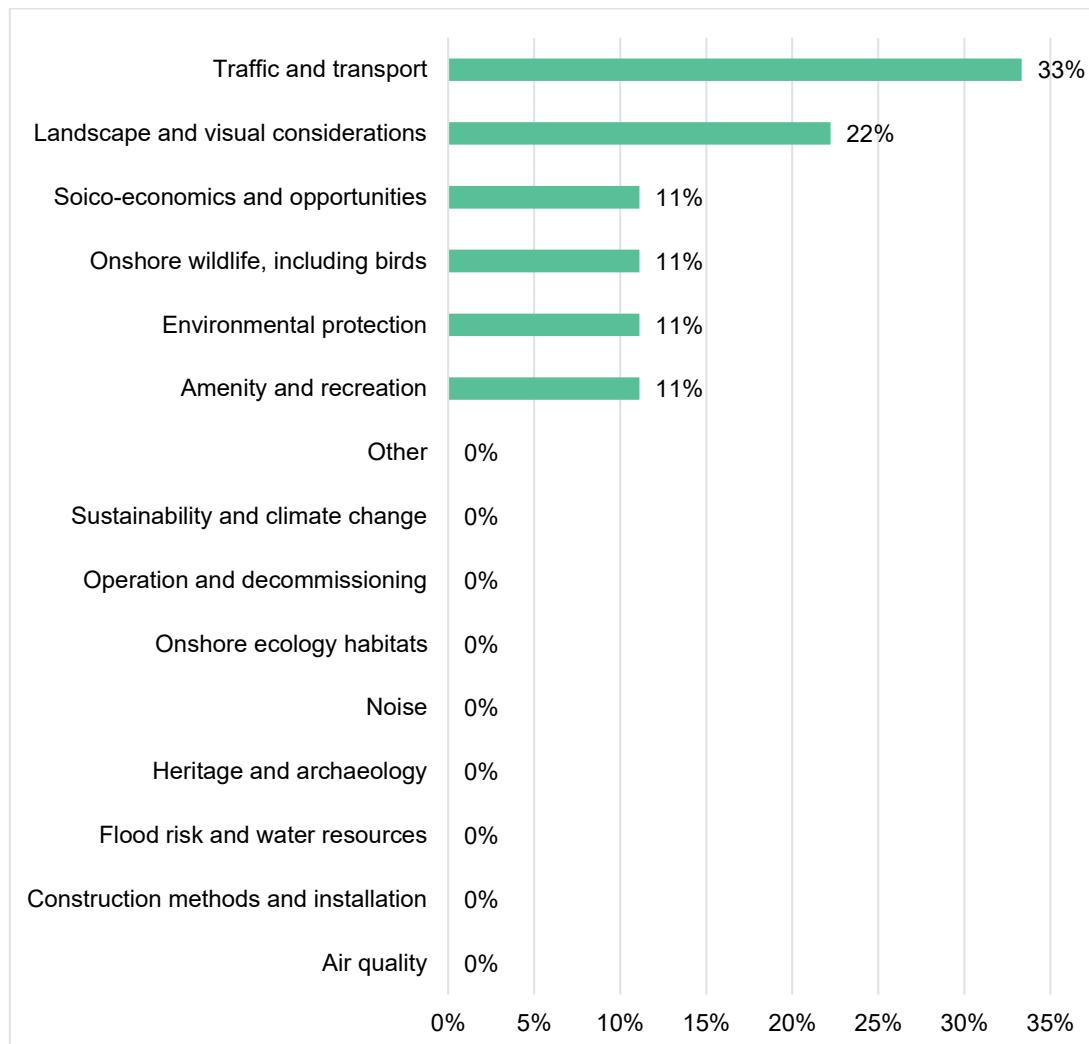
Respondents were able to select up to three aspects as most important.

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

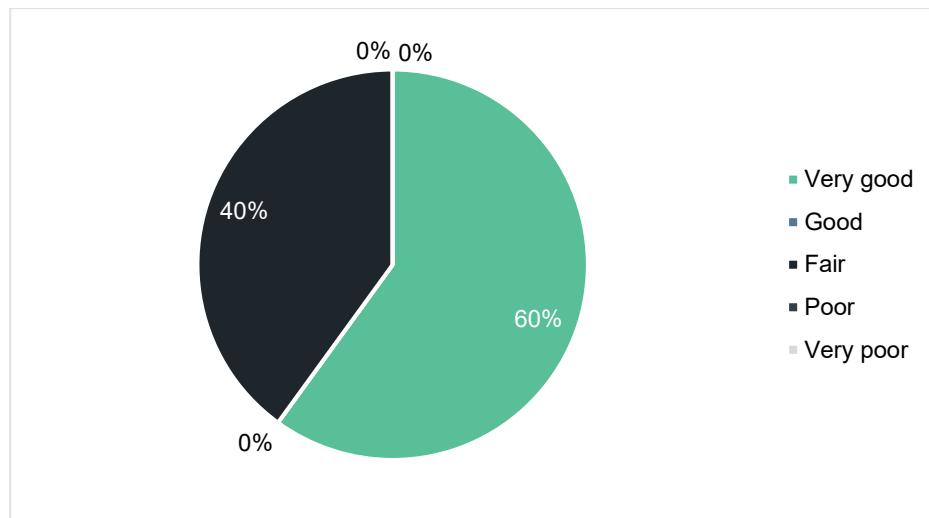
Code	Frequency
Recommendation for benefits and opportunities	3
Recommendation for marine wildlife assessment	1
Concern about the lack of labour availability	1
Recommendation for education/skills development for young people	1
Recommendation for enhancing landscape onshore	1

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.

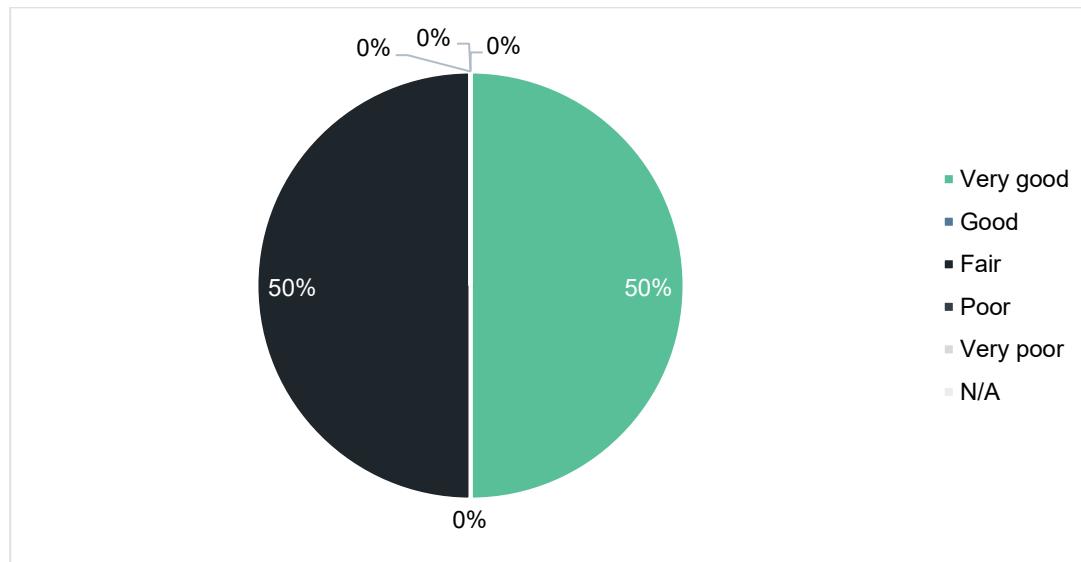
Plate 5.4 Statutory Consultation 2 - Q12



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.

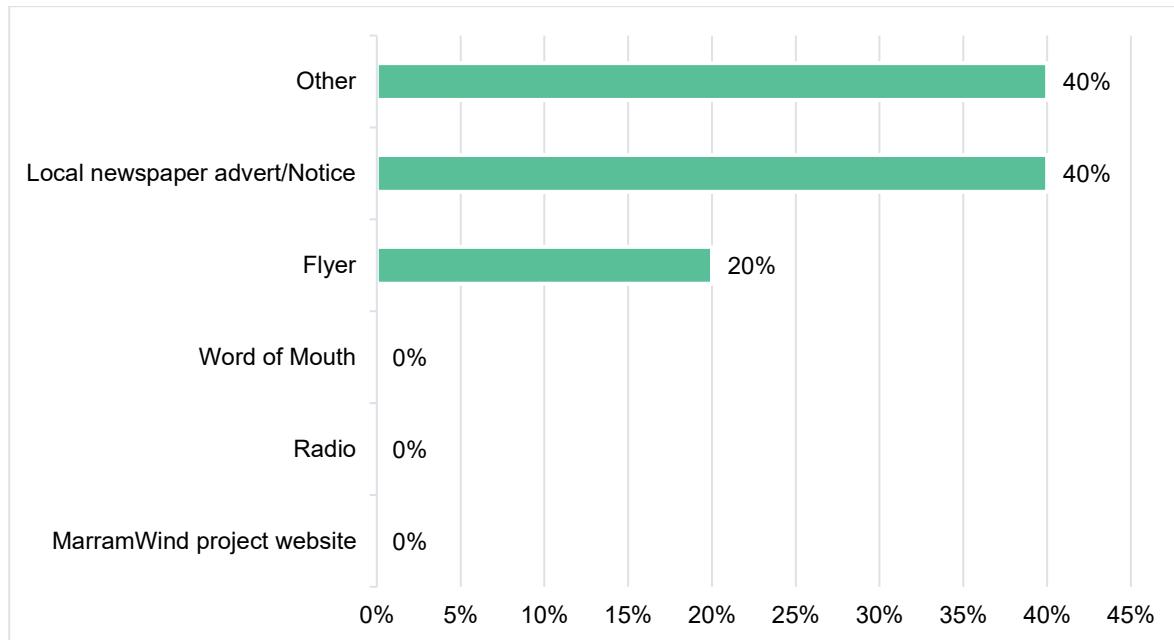
Table 5.9 Statutory Consultation 2 - Q14

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.

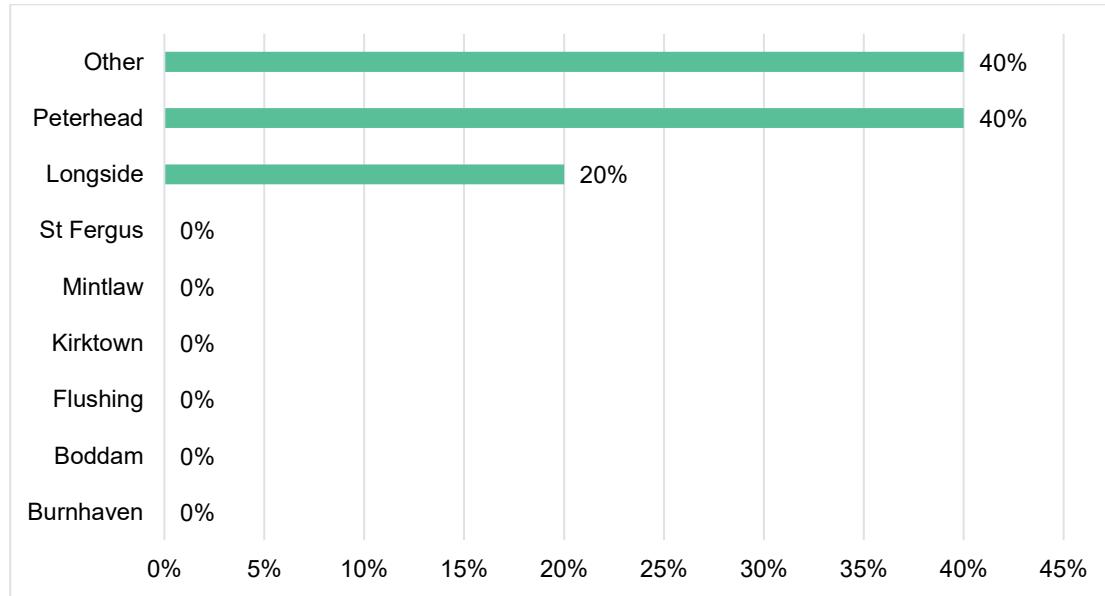
Plate 5.6 Statutory Consultation 2 - Q15

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.

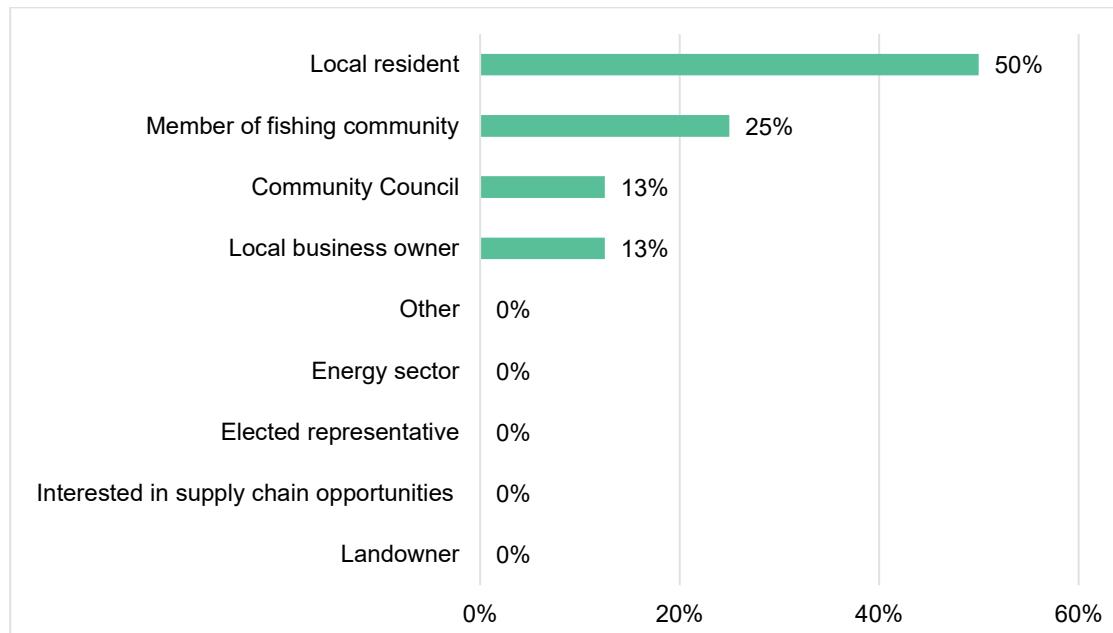
Plate 5.7 Statutory Consultation 2 - Q16



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: <ul style="list-style-type: none"> - 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 29th 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.

