Kirsten Watson
Marine Directorate Licencing and Operations Team
375 Victoria Road
Aberdeen
AB11 9DB

Ref: UKCAL-CWF-CON-PRT-APL-00001
Date: 14/11/2024

Dear Kirsten
Subject: Caledonia North Offshore Wind Farm

Electricity Act 1989
The Electricity (Applications for Consent) Regulations 1990
The Electricity Works (Environmental Impact Assessment) (Scotland) Regulations 2017
Marine and Coastal Access Act 2009
Marine (Scotland) Act 2010
The Marine Works (Environmental Impact Assessment) Regulations 2007
The Marine Works (Environmental Impact Assessment) (Scotland) Regulations 2017

Application by Caledonia Offshore Wind Farm Limited for Consent to Construct and Operate a Generating Station, Caledonia North Offshore Wind Farm.

Caledonia Offshore Wind Farm Limited is a project company of Ocean Winds (OW). OW is a 50:50 joint venture by EDP Renewables (EDPR) and ENGIE, leading global renewable energy companies which develop and build offshore wind farms in the UK.

Caledonia Offshore Wind Farm Limited hereby submits, for the Caledonia North Offshore Wind Farm in the Outer Moray Firth, an application for consent under Section 36 of the Electricity Act 1989 for the construction and operation of an offshore generating station ('Section 36 consent'). An application submitted under (1) Part 4 of the Marine and Coastal Access Act 2009 for the deposit of substances and objects and the construction, alteration or improvement of works within the Scottish Offshore Region for the Caledonia North Offshore Wind Farm and (2) Part 4 of the Marine (Scotland) Act 2010 for deposits in the sea or under the seabed from a vessel which is loaded in Scotland or in the Scottish Marine Area is also enclosed with this letter.

The Caledonia North Array Area is approximately 218.5 km^2, the northern limit is approximately 28km from Wick and southern limit approximately 48km from Banff and lies within the Scottish Offshore Region (as defined in the Marine and Coastal Access Act 2009). The proposed Caledonia North Offshore Wind Farm comprises:

- Up to 77 Wind Turbine Generators (WTGs), spaced no less than 944m and no more than 1860 m downwind and crosswind with a maximum rotor blade diameter of 310 m, maximum blade tip height of 355m (above MSL) and a minimum blade clearance of 35 m (above MSL);
- Up to 360 km of up to 132 kV inter-array cables;
- Scour protection around substructures and cable protection (if required);
- Deployment of buoys (including construction marker buoys and metocean buoys if required); and
- All foundations, substructures, fixtures, fittings, fixings and protections.

Caledonia Offshore Wind Farm Ltd
5th Floor Atria One, 144 Morrison St.
EDINBURGH EH3 8EX

The accompanying Environmental Impact Assessment (EIA) considers up to 77 WTGs in Caledonia North and up to 78 WTGs in Caledonia South (for which a separate S36 and Generation Marine Licence are being sought by the Applicant), however the total number of WTGs of Caledonia North and Caledonia South Offshore Wind Farms will not exceed 140 WTGs.

Power will be exported to the National Electricity Transmission System via a substation located within the New Deer area, Aberdeenshire. Some elements of the offshore transmission infrastructure may be located within the Caledonia North Offshore Wind Farm Site boundaries but will be covered by a separate, accompanying, Marine Licence application.

Documentation Enclosed and Application Fees

Caledonia OWF has been in regular correspondence with Marine Directorate Licensing Operations Team regarding the Section 36 consent and Marine Licence application for the proposed Caledonia North Offshore Wind Farm. The application documents submitted consist of the following:

- Application Form
- Pre-Application Consultation (PAC) Report
- Site Drawings
- Planning Statement
- EIAR (including non-technical summary and EIAR guide – the EIAR covers the Proposed Development (Offshore) and the Proposed Development (Onshore))
- Report to Inform Appropriate Assessment
- Derogation Case (including compensation plan)
- Gap Analysis
- Supporting Documentation and appendices (outline management plans, MPA assessment)

Application fees for the Section 36 consent and for the Marine Licence for the proposed Caledonia North Offshore Wind Farm will be submitted electronically to the Scottish Government.

Related Applications

A separate Marine Licence application has been submitted under Part 4 of the Marine (Scotland) Act 2010 and Part 4 of the Marine and Coastal Access Act 2009 for the deposit of substances and objects and the construction, alteration or improvement of works within the Scottish Marine Area and Scottish Offshore Region in relation to the Caledonia North Offshore Transmission Infrastructure (OfTI).

A separate set of Section 36 and Marine Licence applications has been submitted for the Caledonia South Offshore Wind Farm. Caledonia North and Caledonia South collectively make up the Caledonia Offshore Wind Farm. The interrelationship between these two proposed Offshore Wind Farms is described within the EIAR Report and other accompanying documentation.

The Caledonia Onshore Transmission Infrastructure (OnTI) associated with the Caledonia North Offshore Wind Farm and Caledonia South Offshore Wind Farm is subject to a separate application for planning under the Town and Country Planning (Scotland) Act 1997.

The Applicant is a generation licence holder under Section 6 of the Electricity Act 1989.

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Public Notices

We confirm that public notices regarding the applications will be placed on the Caledonia website, in the Edinburgh Gazette and a national newspaper on one occasion and in at least one newspaper circulating in the locality in which the Caledonia North Offshore Wind Farm is situated for two successive weeks.

A copy of applications, with a plan showing the area to which they relate, together with a copy of the EIA Report presenting Caledonia North Offshore Wind Farm's proposal and an analysis of the environmental implications will be made available for public inspection at the below locations. Due to available space, only physical copies of the NTS, EIAR Guide and offshore visualisations will be provided, QR codes and online access will be provided for the full application documents and EIAR.

Public Libraries
Buckie Library Cluny Place Buckie AB56 1HB
Wick Library East Caithness Community Facility, 7 Newton Rd, Wick KW1 5SA
*Turiff Library Grange Villa The Square Turriff AB53 4AE
Banff Library High Street Banff AB45 1AE

**Offshore visualisations will not be provided to Turiff Library, as it lies outside the offshore Zone of Theoretical Visibility.*

Once the applications have been accepted by Marine Directorate Licensing Operations Team, the EIA Report and Non-Technical Summary will be published online at: https://www.caledoniaoffshorewind.com/.

We look forward to hearing from you in relation to the formal acceptance of the applications. Please do not hesitate to contact Aleks Schmidt-Sweetingham (via caledonia.info@oceanwinds.com) if we can be of assistance.

Yours Faithfully,

<Redacted>

Mark Baxter
Project Director

Caledonia Offshore Wind Farm Ltd
5th Floor Atria One, 144 Morrison St.
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marinescotland

The Scottish Government

T:+44 (0)1224 295579 F: +44 (0)1224 295524
E: MS.MarineLicensing@scotland.gsi.gov.uk

Marine Renewable Energy Projects in the Territorial Sea and UK Controlled Waters Adjacent to Scotland

Marine (Scotland) Act 2010

IMPORTANT: Before completing this form, please read these notes carefully.

The following numbered paragraphs correspond to the questions on the application form and are intended to assist applicants in completing the form. These explanatory notes are specific to this application and so applicants are advised to read these in conjunction with the General Guidance document. If further clarification is needed please contact Marine Scotland Licensing Operations Team (MS-LOT) on 01224 295579 or email:

MS.MarineLicensing@scotland.gsi.gov.uk

Please refer to the General Guidance for information regarding payment methods.

Explanatory Notes

2. Applicant

The person, company or organisation making the application that will be named as the licensee on any licence issued.

3. Agent

Any person, company or organisation acting under contract (or other agreement) on behalf of any party listed in the answer to question 2, and having responsibility for the control, management or physical deposit of materials anywhere below the tidal limit of the mean high water springs (MHWS) (e.g. a consultancy company submitting the application or a contractor who will be carrying out the works.)

4. Duration of Project

Provide details of the proposed commencement and completion dates of the project. The start date will not normally be backdated, except in exceptional circumstances, since to commence a project for which a licence has not been obtained may constitute an offence resulting in appropriate legal action. A licence is normally valid for 1 calendar year or the duration of the project (whichever is longer). After this period, it may be necessary for licence holders to re-apply for a further licence to continue any ongoing work (i.e. the project will be reviewed to establish whether original details are being adhered to). Although Marine Scotland Licensing Operations Team (MS-LOT) will aim to write to licence holders one month before the expiry date of a licence, it is the licensee's responsibility to apply for any further licences or an extension prior to the expiry of the initial licence.

5. Description and Cost of the Proposed Project

(a) This estimate should only cover work taking place below the tidal level of MHWS and should take into consideration the cost of materials, labour fees etc.

(b) Where the project is expected to take longer than 12 consecutive months, this description must detail which elements are to be undertaken in the first 12 months, with an outline of the schedule for each further 12 month period (the method of work should be described in the answer to question 7). In the event that MS-LOT must undertake a wider consultation on your application this description may be used as a basis for informing other bodies as to the nature of the proposed work.

(c) Best describe the type of work proposed. Where the project involves a number of elements, please complete all appropriate boxes.

6. Location of Project

Include a list of the National Grid References (NGR) or latitude and longitude co-ordinates of the boundary points of the proposed project. In some cases, (e.g. the laying of cables) it may only be practicable to supply NGR or latitude and longitude co-ordinates for the start and end points.

NGR: Should consist of two letters followed by 10 digits (e.g. TL6320031700) where the first 5 digits are the eastings (read from the south west corner of an Ordnance Survey map) and the last 5 digits are northings.

Latitude & longitude: For positions read from charts of 1:25,000 scale or smaller, the format should be, e.g. 5555.55'N 222.22'W. The decimal point specifies that decimals of minutes are used and the datum is stated explicitly. If seconds are used then the datum should be explicitly marked, e.g. 55°55'44''N 2°22'11''W. For positions read from larger scale charts, e.g. 1:10,000, three decimal places of minutes should be used, e.g. 55°55.444'N 2°22.222'W.

It is important that the correct positions are included with this application, as any errors may result in the application being refused or delayed.

To supplement the information given in section 6, the following must be provided with the completed application form:

- a suitably scaled extract of an Ordnance Survey Map (1:2,500 scale but not more than 1:10,000) or Admiralty Chart which should be marked to indicate:
    - the full extent of the project in relation to the surrounding area;
    - either NGR or latitude and longitude co-ordinates defining the area of operation.
    - the level of MHWS;
    - any adjacent Special Area of Conservation (SAC), Special Protection Area (SPA), Site of Special Scientific Interest (SSSI), Ramsar or similar conservation area boundary.

These drawings/plans may be copied to others as part of the MS-LOT consultation process. If they are subject to copyright, **it is the responsibility of the applicant to obtain necessary approvals to reproduce the documents and to submit suitably annotated copies with the application.**

7. Method Statement

Please provide a full method statement, including details of any temporary structures/deposits that may be required below MHWS during the project, the ultimate fate of the structure and material used in its construction. Details of temporary structures will be included in any licence issued.

Proposed measures to ensure the marine environment is adequately safeguarded during the project should also be described, as should those taken to minimise any interference with other uses of the sea or foreshore.

8. Permanent (and Temporary) Deposits

(a) Complete the appropriate box(es) to indicate all materials to be deposited below MHWS. If you propose using types of materials for which a specific box is not provided, please describe the nature of such material in the box marked “Other”.

(b) If any materials to be placed below MHWS are to be brought to the site by sea, give details of the material (e.g. clean rock, average particle size)the vessels to be used,

A chart should also be provided showing the proposed vessel route to the project site and details of any trans-shipment areas (i.e. where material may be off-loaded to smaller vessels/barges for transport inshore).

If temporary deposits are required, please provide details as with the permanent deposits above. The temporary deposit location details (NGR or Lat/Long) should be added to section 6 of the form, and the period of time the site will be used must be provided. If issuing a licence, MS-LOT will include on the document details of any area that has been approved as a temporary deposit site

9. Producer/Contractor

The person, company or organisation whose activities produce the material intended for deposit in the sea (e.g. the dredging or excavation contractor).

10. Holder

The person, company or organisation that will be in possession of the waste prior to its deposit in the sea. This will include those providing temporary storage facilities or transporting the material to the vessel for conveyance to the sea disposal site etc.

11. Agent

Any person, company or organisation acting under contract (or other agreement) on behalf of any party listed in the answer to sections 1, 9 or 10 and having responsibility for the control, management or deposit anywhere below the tidal limit of MHWS (e.g. a consultancy company submitting the application or a contractor who will be carrying out the operations).

12. Duration of Dredging/Drilling Operation

Provide details of the proposed commencement and completion dates of the operations. The start date will not normally be backdated, except in exceptional circumstances, since to commence a project for which a licence has not been obtained may constitute an offence resulting in appropriate legal action. A licence may be issued for up to 3 calendar years, although MS-LOT will aim to write to licence holders two months before the expiry date of a licence, it is the licensee's responsibility to apply for any further licences or an extension prior to the expiry of the initial licence.

13. Details of Dredging/Drilling and Disposal Vessel(s)

The name, operator and type of vessel, including the type of dredging/drilling plant (e.g. cutter-suction) should be entered. If vessel details are not available at the time of application, please indicate this on the form as these details will be required prior to licence issue.

14. Method Statement of Dredging/Drilling Operation

Provide a full method statement of the dredging/drilling operation. This should include details such as the rate of dredging/drilling, timing of the operation, order of the areas to be dredged/drilled and the precautions taken to protect both navigation and the environment.

15. Use of Explosives

Indicate whether explosives are to be used as part of the dredging operations. If yes, please indicate if a method statement has been provided with your application. If a method statement has been produced but is not available, please provide an explanation in the space provided.

16. Details of Areas to be Dredged/Drilled

This section requires data to be provided about the source area to be dredged and the type of material to be deposited.

Name of Area - An annotated chart/location plan (either at A3 or A4 format) of suitable scale (1:2,500 but no more than 1:10,000) should be provided, with each proposed dredge area marked and named. The chart/location plan should show the full extent of the project in relation to the surrounding area. These drawings/plans may be copied to others as part of MS-LOT consultation procedures. If they are subject to copyright, **it is the responsibility of the applicant to obtain necessary approvals to reproduce the documents and to submit suitably annotated copies with the application.**

Co-ordinates - Include a list of the National Grid References (NGR) or latitude and longitude co-ordinates of the boundary points for the proposed dredge areas.

- **NGR:** Should consist of two letters followed by 10 digits (e.g. TL6320031700) where the first 5 digits are the eastings (read from the south west corner of an Ordnance Survey map) and the last 5 digits are northings.

- **Latitude & longitude:** For positions read from charts of 1:25,000 scale or smaller, the format should be, e.g. 55°55.55'N 2°22.22'W. The decimal point specifies that decimals of minutes are used and the datum is stated explicitly. If seconds are used then the datum should be explicitly marked, e.g. 55°55'44''N 2°22'11''W. For positions read from larger scale charts, e.g. 1:10,000, three decimal

places of minutes should be used, e.g. 55°55.444'N 2°22.222'W.

Nature of Dredge/Drill Area - provide a description of the type of area to be dredged/drilled (e.g. river bed, sea, harbour, approach channel, estuary)

17. Details of Material to be Dredged/Drilled

Information is required for each of the areas listed in the answer to section 16. The applicant should indicate the following:

A pre-dredge survey and sediment chemical analysis report will be required by MS-LOT prior to the issue of a sea disposal licence. Please contact MS-LOT for details in relation to specific projects. In addition to those samples analysed by the applicant, sediment sub-samples must be submitted to MS-LOT as check monitoring may be required.

Physical Composition of Material - indicate the approximate proportions (by volume) of the different types of dredged materials which are expected to be removed from each area.

For the purposes of this application the following descriptions should be used:

Average particle size (Based on the Wentworth Table)		
Description	**Lower range**	**Upper range**
Boulders	256 mm+	
Cobbles	64 mm	256 mm
Pebbles	4mm	64 mm
Granules	2 mm	4mm
Sand	62 microns	2mm
Silt and clay		62 microns

Depth of Material to be Removed - indicate the maximum depth (in metres) below the current seabed level, to which it is expected dredging is to be carried out.

Estimated Specific Gravity - indicate the specific gravity of the material to be disposed.

Quantity to be Dredged/Drilled per Year - the amount of material to be dredged (per year) from each area. Indicate unit of measure, either in-situ cubic metres or metric tonnes.

18. Dredged/Drilled Material: Additional Information

Contamination - information should be given regarding contamination in any of the areas to be dredged/drilled e.g. waste discharges, man-made rubbish or industrial activity in close proximity.

Type of dredger - indicate the type of dredging plant to be used within each area.

Beneficial uses – include any intended beneficial use of material (details to be provided in the BPEO).

19. Details of Dredged/Drilled Material Quality

The applicant is required to have representative sediment samples analysed at a laboratory of choice. This is liable to extend the time required to consider your application **as no licence will be issued without provision of this chemistry data.** As part of the application consideration process, an assessment will be made of the

chemical and physical characteristics of the material to be deposited at sea and its potential effects upon the marine environment.

As part of the licence conditions, you may be required to take representative samples of the dredged/drilled material during the dredging/sea disposal operations for analysis by MS-LOT. In such cases, samples should be taken at specified locations and depths and placed in containers which will be provided. The samples should then be returned to MS-LOT at the Marine Laboratory Aberdeen. This process enables the UK to fulfil its obligations under international conventions.

20. Best Practicable Environmental Option (BPEO) Assessment

Under Part 4, Section 27(2) of the Marine (Scotland) Act 2010 (there is no equivalent provision under the Marine and Coastal Access Act 2009), the Licensing Authority has an obligation to consider the availability of practical alternatives when considering applications involving disposal of material at sea. In order for Marine Scotland to thoroughly assess the available alternative options and reach a properly considered decision, all sea disposal licence applications must be supported by a detailed assessment of the alternative options - a Best Practicable Environmental Option (BPEO) assessment. This should include a statement setting out the reasons which have led to the conclusion that deposit of the materials at sea is the BPEO. **Sea disposal applications will not be considered unless they are accompanied by a BPEO assessment.** All options in the BPEO should be explored fully (as per the guidance documents) otherwise your form and BPEO are liable to be returned to you thereby delaying processing of the application.

21. Sea Disposal Site Details

Provide details of the proposed sea disposal site for the dredged material and, if necessary, any alternative sea disposal site(s) considered. In determining whether to issue a licence, MS-LOT will take into account any site nominated by the applicant. However, should this site be unsuitable, the nearest suitable disposal site for the dredged material will be identified. Should you wish to establish a new site, please provide details in a covering letter with your application and MS-LOT will contact you to discuss your proposal before your application is determined. The cost of any site investigations to identify any new sea disposal site will normally be the responsibility of the applicant.

22. Other Consents

Detail all consents required for the proposed project and indicate those that you have applied for or received. In all cases the applicant must provide the name and address of the nearest Local Planning Authority for the location of the project.

23. Statutory Consenting Powers

Please describe in the answer to this question what (if any) statutory responsibilities you (or your client) have to consent any aspect of the project.

24. Advertising and Consultation

(a) Confirm whether the proposed project has been advertised, and if so how and where?

(b) Have the public been invited to comment on the proposed project? If so to whom and what was the closing date?

(c) Have any consultation meetings been held with the public? If so where and when?

25. Consultation with Conservation Bodies

Consenting Authorities have a duty to ensure marine projects will not have a significant adverse environmental impact, particularly upon designated conservation areas (e.g. SSSI, SAC, SPA, Ramsar sites etc). All details of

consultations with conservation bodies (e.g. SNH, JNCC) should be given, particularly where the applicant has statutory powers for consenting aspects of the project

In addition, guidance can be obtained from www.foodstandards.gov.uk/ with regards to the Shellfish Waters Directive (2006/113/EC) which has parameters set to protect the water quality in which edible shellfish are grown.

26. Designated Conservation Areas

Indicate whether the proposed project is located within or close to the boundaries of a conservation area such as a SAC, SPA, SSSI or Ramsar site (further information can be found on the SNH SiteLink webpage http://gateway.snh.gov.uk).

27. Environmental Assessment

Under the Marine Works (EIA) Regulations 2007, there may be a requirement for certain projects to undergo an Environmental |Impact Assessment (EIA) and produce an Environmental Statement (ES). If an EIA/ES is deemed necessary, MS-LOT cannot issue a marine Licence until the outcome of the EIA/ES has been determined. Please indicate whether any EIA has been carried out in respect of the proposed project, either under your own powers or as required by another authority. If such an assessment has been undertaken, please indicate if a copy has been provided with your application. If the statement/assessment has been completed but is not available, please provide an explanation in the space provided.

Additionally, please also give details regarding if and where a copy has been/is being made available for public inspection.

Other Considerations

Applicants should also be aware of the need to pay due regard to coastal and marine archaeological matters and attention is drawn to Historic Scotland's Operational Policy Paper HP6, "Conserving the Underwater Heritage". Please ensure that you have:

- completed **all** applicable sections of the application form;
- signed and dated the declaration;
- provided the correct relevant documents, charts, and continuation sheets (where necessary); and
- enclosed the correct payment (together with the remittance slip) or paid by means of BACS (if appropriate).

Otherwise your application may be delayed or returned to you.

Application for Marine Renewable Energy Projects in the Territorial Sea and UK Controlled Waters Adjacent to Scotland

(ML-003)

Marine (Scotland) Act 2010

It is the responsibility of the applicant to obtain any other consents or authorisations that may be required.

Under Part 4, Section 54 of the Marine (Scotland) Act 2010 and Section 101 of the Marine and Coastal Access Act 2009 all information contained within or provided in support of this application will be placed on the Public Register. There is no national security grounds for application information not going on the Register under the 2010 Act. Under the 2009 Act, application information goes on the Register unless the Secretary of State determines that it's disclosure in the Register would be contrary to the interests of national security.

Public Register

Is there any information contained within or provided in support of this application that you consider should not be included on the Public Register on the grounds that its disclosure

(a) would be contrary to the interests of national security; or YES ☐ NO ■

(b) would adversely affect the confidentiality of commercial or industrial information where such confidentiality is provided by law to protect a legitimate commercial interest? YES ■ NO ☐

If **YES**, to either (a) or (b), please provide full justification as to why all or part of the information you have provided should be withheld.

Publication of the information provided in Section 5a regarding the estimated cost of the works may prejudice the ongoing commercial tendering process. Confidential Annexes included within the EIAR provided should be withheld.

1. Project Title and Payment Details

Please give a brief identifiable description, including the location, of the project.

Caledonia North Offshore Wind Farm located in the Outer Moray Firth

Payment: Enclosed payment ☐ BACS ■ **OR** Invoice ☐

2. Applicant Details

Title Initials Surname

Trading Title (if appropriate) Caledonia Offshore Wind Farm Limited

Address 5th Floor, Atria One, 144 Morrison Street, Edinburgh, EH3 8EX

Name of contact (if different) Aleks Schmidt-Sweetingham

Position within Company (if appropriate) Offshore Consents Manager

Telephone No. (inc. dialing code) <Redacted>

Fax No. (inc. dialing code) N/A

Company Registration No. 13844888

Email aleks.schmidtsweetingham@oceanwinds

3. Agent Details (if any)

Title Initials Surname

Trading Title (if appropriate)

Address

Name of contact (if different)

Position within Company (if appropriate)

Telephone No. (inc. dialing code)

Fax No. (inc. dialing code)

Company Registration No.

Email

4. Duration of Project

Start date 2028

Expected completion date 2068

5. Description and Cost of the Proposed Project

(a) Estimated gross cost of the works proposed seawards of the tidal limit of MHWS

<Redacted> .

(b) Give a detailed description of the proposed schedule of work.

See separate sheet.
Detailed information is also provided within the accompanying EIA Report:
Volume 1: Chapter 3 'Offshore Proposed Project Description'
Volume 1: Chapter 5 'Proposed Development Phasing'

(c) Types of Work Proposed

General Marine Project (e.g. wave, tidal device, monopile turbine)

Offshore wind farm of up to 77 wind turbines (see separate sheet and Volume 1: Chapter 3 of EIAR)

Scientific/Marine Survey (e.g. geotechnical, geophysical, waverider):

Pre-construction geophysical and geotechnical surveys and deployment of metocean survey equipment.

Moorings (e.g. private, commercial):

Moorings may be established to support construction activities (including buoys).

Dredging/Drilling Operations

A separate licence for dredging and/or drilling will be applied for if required.

6. Location of Project (including any temporary deposit locations)

This should include either National Grid References (NGR) or Latitude and Longitude co-ordinates defining the extent of the project.

Please see enclosed offshore wind farm location plan and list of co-ordinates.

7. Method Statement

Please refer to Volume 1: Chapter 3 'Offshore Proposed Project Description' and Volume 1: Chapter 5 'Proposed Development Phasing' of the EIAR. A detailed Construction Method Statement, Cable Plan and Construction Programme will be submitted for approval in advance of construction works commencing.

8. Permanent (and Temporary) Deposits

(a) Quantity of permanent (and temporary, where applicable) materials to be deposited below MHWS:

Type of Deposit	Nature of Deposit (P = Permanent, T = Temporary)	Deposit Quantity
Steel/Iron	P	See separate sheet Tonnes No. (if applicable)
Timber	N/A	See separate sheet m^3/tonnes
Plastic/Synthetic	P	See separate sheet m^2
Concrete	P	See separate sheet m^3
Silt	N/A	See separate sheet m^3
Sand	P	See separate sheet m^3
Stone/Rock/Gravel	P	See separate sheet Size range (mm) Total m^3
Concrete bags/mattresses	P	See separate sheet No. Dimensions Total m^3
Cable	P	See separate sheet Length (m)

Other (please describe below):
N/A

(b) Method of delivery of material. (see Guidance Notes)

By vessel. Details of vessels and routes to be used will be provided in a Vessel Management Plan that will be submitted for approval in advance of works commencing.

If necessary, please continue on a separate sheet and tick this box ☐

IF THE PROJECT INVOLVES DREDGING/DRILLING (AND DISPOSAL OF DREDGED MATERIALS AT SEA) THEN PLEASE COMPLETE THE FOLLOWING SECTIONS, OTHERWISE PROCEED TO SECTION 22

9. Dredging/Drilling Contractor/Producer Details

Title Initials Surname

Trading Title (if appropriate)

Address

Name of contact
(if different)

Position within Company
(if appropriate) Offshore Consents Manager

Telephone No.
(inc. dialing code)

Fax No.
(inc. dialing code)

Company Registration No. Email

10. Holder

If the Holder is also the Applicant (shown at 2) tick the box and go to section 11 ☐

If the Holder is also the Producer (shown at 9) of the material tick the box and go to section 11 ☐

Title Initials Surname

Trading Title (if appropriate)

Address

Name of contact
(if different)

Position within Company
(if appropriate)

Telephone No.
(inc. dialing code)

Fax No.
(inc. dialing code)

Company Registration No. Email

11. Agent

Title Initials Surname

Trading Title (if appropriate)

Address

Name of contact
(if different)

Position within Company (if appropriate) Offshore Consents Manager

Telephone No. (inc. dialing code)

Fax No. (inc. dialing code)

Company Registration No.

Email

If more than one 'Agent' please continue on a separate sheet and tick the box ☐

12. Duration of Dredging/Drilling Operation

When is it proposed to begin the dredging/drilling operation?

When are dredging/drilling and disposal operations expected to be completed?

13. Details of Dredging/Drilling and Disposal Vessel(s)

	Name of Vessel and Operator	Type of Vessel
(a)		
(b)		
(c)		
(d)		

14. Method Statement for Dredging/Drilling Operation

15. Use of Explosives

Will any part of the dredging operation involve the use of explosives? YES ☐ NO ☐

If YES,
Has a method statement regarding the use of explosives been submitted with this application?
YES ☐ NO ☐

If a method statement is not being submitted, please provide an explanation as to why.

16. Details of Areas to be Dredged/Drilled

Dredge/Drill Areas	Name of Area to be Dredged/Drilled	Co-ordinates	Nature of Dredged/Drilled Area
A			
B			
C			
D			
E			

If necessary please continue on a separate sheet and tick this box ☐

17. Details of Material to be Dredged/Drilled

For each of the areas at rows A –E above (plus any listed separately), provide the following information:

Dredge/Drill Areas	Estimated Specific Gravity	Physical Composition of Material	Depth of Material to be Removed (metres)	Quantity to be Dredged/Drilled per Year (either in-situ m^3 or metric tonnes)
A				
B				
C				
D				
E				

If necessary please continue on a separate sheet and tick this box ☐

18. Dredged/Drilled Material: Additional Information

For each of the areas at rows A – E above (plus any listed separately), provide the following information:

Dredge/Drill Areas	Type of Contamination	Type of Dredger	Beneficial Uses
A			
B			
C			
D			
E			

If necessary please continue on a separate sheet and tick this box ☐

19. Details of Dredged Material Quality

Has the dredged/drilled material been chemically analysed in the last 3 years? YES ☐ NO ☐

Can the samples be made available if required? YES ☐ NO ☐

If **NO**, when will they be available? ____

20. Best Practicable Environmental Option (BPEO) Assessment

Has an up to date BPEO assessment been included with your application? YES ☐ NO ☐

21. Sea Disposal Site Details

Name of Disposal Site (or Oslo Code)	Co-ordinates of Disposal Site

22. Other Consents

Provide details below of all consents you have applied for or received.

Type of Consent	(Tick appropriate box) Applied for	Not Applied for	Reference No.	Date of Issue of Consent
1. Local Planning Authority (LPA) (e.g. Town and Country Planning Act)	✓		N/A	Awaiting
Name and address of LPA for Location of proposed works:	Aberdeenshire Council Planning Permission in Principle application submitted for onshore elements of the project (landward of MLWS)			
2. Land Owner e.g. The Crown Estate	✓		Agreement for Lease	Awaiting
3. Local Port or Harbour Authority e.g. local work licence		✓		
4. Scottish Environment Protection Agency (SEPA)		✓		
5. Others		✓		

23. Statutory Consenting Powers

Do you, or (if appropriate) your client, have statutory powers to consent any aspect of this project?

No.

24. Advertising and Consultation

Have these proposals been advertised to the public? YES ■ NO ☐
If **YES**, how and where?

See separate sheet for full text.

Have the public been invited to submit comments? YES ■ NO ☐
If **YES**, to whom and by what closing date?

See separate sheet for full text.

Have any consultation meetings with the public been arranged? YES ■ NO ☐
If **YES**, where and when are these to be held?

See separate sheet for full text.

25. Consultation with Conservation Bodies

Provide details of any consultation with Conservations Bodies, and, if appropriate, include copies of any correspondence with your application.

NatureScot and RSPB have been consulted with extensively. Please see enclosed EIAR, each topic chapter has a record of consultations relevant to that topic and a short summary of consultations is provided in Volume 1: Chapter 7 - 'Methodology'.

26. Designated Conservation Areas

Are any parts of the proposed project located within the boundaries of a designated conservation area?

If yes, indicate approximate distance of the project from the boundary of the nearest conservation area(s)

N/A

If appropriate, are any parts of the proposed dredging and/or deposit operations located within the boundaries of a designated conservation area?

If yes, indicate approximate distance of the operations from the boundary of the nearest conservation area(s)

N/A

27. Environmental Assessment

Has an Environmental Impact Assessment (EIA)/Environmental Statement (ES) been undertaken to support any application in respect of the project, your own statutory powers (if applicable) or any other reason? YES ■ NO ☐

If **YES**, is a copy of the EIA/ES included with this application? YES ■ NO ☐

If the EIA/ES has been undertaken but has not been included with this application, please provide an

explanation below.

Is the EIA/ES available for public inspection? YES ■ NO □
If **YES**, at what locations:

A copy of applications together with a copy of the EIA Report discussing Caledonia North Offshore Wind Farm's proposal in more detail will be made available for public inspection at the following locations: Buckie Library, Wick Library, Turiff Library, Banff Library.

Declaration

I declare to the best of my knowledge and belief that the information given in this form and related papers is true.

WARNING

It is an offence under the Act under which this application is made to fail to disclose information or to provide false or misleading information.

Signature <Redacted> Date 14-Nov-2024

Name in BLOCK LETTERS	MARK BAXTER
Position within company (if appropriate)	PROJECT DIRECTOR

Please check carefully the information you have given and that all the enclosures (including copies) have been included.

Application Check List

1. Electronic Application

• Completed application form **x 1**	✓
• Project drawings **x 1**	✓
• Method Statement **x 1**	✓
• Maps/Charts **x 1**	✓
• Additional environmental information, eg. Photographs, Environmental Impact Assessment etc (if required) **x 1**	✓
• Payment (signed cheque or BACS details)	✓

2. Non-electronic Application

• Completed, signed application form **x 7**	
• Project drawings **x 7**	
• Method Statement **x 7**	
• Maps/Charts **x 7**	
• Additional information, eg. photographs, Environmental Impact Assessment etc (if required) **x 7 (dependent on size and relevance to consultees)**	
• Payment (signed cheque or BACS details)	

Marine Laboratory, PO Box 101, 375 Victoria Road,
Aberdeen AB11 9DB
www.scotland.gov.uk/marinescotland

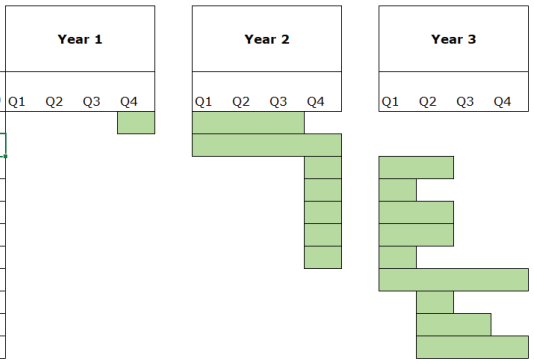
Caledonia North Offshore Wind Farm Marine Licence Application Supporting Information

Section 5 (b) Give a detailed description of the proposed schedule of work.

A high-level indicative construction programme is presented in the figure below. The programme illustrates the likely duration of the major construction activities, and how they may relate to one another if built out in a single construction campaign. It covers installation of the major components (including offshore transmission (OfTI) works which will be licenced under a separate Marine Licence application) and does not include elements such as preliminary site preparation and commissioning of the wind farm post-construction. Caledonia North is currently predicted to be fully commissioned in early 2030s.

Timing of construction works will be subject to Caledonia North reaching Final Investment Decision and actual works durations will be dependent on a number of factors including, component and vessel availability, weather and final construction strategy. Construction is intended to take place 24 hours per day, 365 days per year, subject to weather conditions, until construction is complete.

Indicative Construction Activities for Caledonia North works	Estimated Duration (Months)
Seabed Preparation (boulders, UXO, PLGR, etc.)	12
Install piling/anchors (e.g., monopiles or jacket pin piles)	9-18
Install foundation substructures (bottom-fixed)	7-9
Install OSPs	4-5
Install inter-array cables	8
Inter-array cable termination and testing	8-9
Lay offshore export cables	6
Install WTGs (bottom-fixed)	8-12
Offshore export cable termination and testing	3
Commission OSPs	6
Commission WTGs	7-9



The sequence of activities associated with the construction of the Caledonia North Offshore Wind Farm and OfTI are likely to be as follows, with various activities set out below being undertaken concurrently:

- Detailed pre-construction site investigations – some of these may be subject to separate licence applications;
- Seabed preparation works;
- Transport to site and installation of fixed-foundations foundations (monopiles, pin-piles or suction caissons);
- Transport to site and installation of substructures (Transition Pieces and/or jacket structures) on pre-installed foundation structures;
- Transport to site and installation of inter-array cables;
- *Transport to site and installation of Offshore Substation Platforms*;*
- *Transport to site and installation of export cables*;*
- Transport to site and installation of wind turbine generators (WTGs); and
- System testing and commissioning.

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5th Floor Atria One, 144 Morrison St.
EDINBURGH EH3 8EX

Covered by a separate transmission marine licence.

Section 5(c) Types of Work Proposed

General Marine Project (e.g. wave, tidal device, monopile turbine)

Offshore Wind Farm comprised of:

- Up to 77 WTGs, spaced no less than 944m and no more than 1,860m downwind and crosswind with a maximum rotor blade diameter of 310m, maximum blade tip height of 355m (above MSL) and a minimum blade clearance of 35m (above MSL);
- Up to 360km of up to 132kV inter-array cables;
- Scour protection around substructures and cable protection (if required);
- Deployment of buoys (including construction marker buoys and metocean buoys if required); and
- All foundations, substructures, fixtures, fittings, fixings and protections.

Section 8 (a) Quantity of permanent (and temporary, where applicable) materials to be deposited below MHWS:

Type of Deposit	**Nature of Deposit (P = Permanent, T = Temporary)**	**Deposit Quantity**
Steel/Iron	P	Estimate approximately 520,000 tonnes (substructures/foundations, WTGs, etc)
Timber	N/A	N/A
Plastic/Synthetic	P	Estimate approximately 3,000 tonnes (IAC insulation/protection layers)
Concrete	P	Estimate up to 600,000 tonnes for grouting WTG structures.
Silt	N/A	N/A
Sand	P	Estimate up to 3,500,000 m^3 for IAC trench infill
Stone/Rock/Gravel	P	Size range (mm) typically 15 - 400 mm. Estimate approximately 4,000,000 m^3 as scour protection at base of steel substructures Estimate approximately 500,000 m^3 for cable protection
Concrete bags/Mattresses	P	Estimate approximately 4,000 concrete bags/mattresses Total volume estimate: 108,000 m^3
Cable Length	P	Up to 360 km inter-array cables

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Section 24 Advertising and Consultation

Have these proposals been advertised to the public? **YES**

If YES, how and where?

A first round of public consultation events were held following publication of the Offshore Scoping Report in 2022. Public consultations were advertised in local papers and online. The public consultations were held at:

- Wick, Mackays Hotel – 07 November 2022, 12pm-8pm
- Fraserburgh, Fraserburgh Leisure Centre – 09 November 2022, 12pm-8pm
- Buckie, Buckie Thistle Ace Winches Lounge – 10 November 2022, 12pm-8pm
- Banff, Banff Springs Hotel – 02 February 2023, 12pm-8pm

The adverts were placed in:

- Banffshire Advertiser (01 November 2022)
- Fraserburgh Herald (03 November 2022)
- John O Groats Journal (04 November 2022
- Banffshire Advertiser (24 January 2023)

A virtual exhibition room, accessible via the Caledonia Offshore Wind Farm webpage, was open throughout the duration of the consultation. The layout of the virtual exhibition room replicated the in-person events, allowing users to explore the consultation materials online at a time that suited them.

A second round of consultation events were held in 2024 prior to the consent application submission to provide an update on the development of Caledonia Offshore Wind Farm and feedback to consultation responses received during the first round of consultation. The events covered both offshore and onshore elements of the Proposed Development to reduce stakeholder consultation fatigue. The Public Exhibitions were held at:

- Buckie, Buckie Thistle Ace Winches Lounge – 16 April 2024, 12pm-7pm
- Wick, Mackays Hotel – 18 April 2024, 12pm-7pm
- Banff, Banff Springs Hotel – 23 April 2024, 12pm-7pm
- New Deer, New Deer Public Hall - 25 April 2024, 12pm-7pm
- Banff, Banff Springs Hotel – 19 June 2024, 2pm-6pm (Offshore specific)

The adverts were placed in:

- Banffshire Advertiser (09 April 2024)
- Banffshire Journal (09 April 2024)
- Banffshire Herald (09 April 2024)
- Huntly Express (09 April 2024)
- John O'Groats Journal (12 April 2024)

- Press and Journal (15 April 2024)
- Press and Journal (16 April 2024)
- Press and Journal (22 April 2024)
- Banffshire Herald (07 May 2024)
- Banffshire Advertiser (07 May 2024)
- Banffshire Journal (07 May 2024)
- Huntly Express (07 May 2024)

A virtual exhibition room, accessible via the Caledonia Offshore Wind Farm webpage, was open throughout the duration of the consultation. The layout of the virtual exhibition room replicated the in-person events, allowing users to explore the consultation materials online at a time that suited them.

Within the enclosed EIAR, each topic chapter has a record of consultations relevant to that topic. Also enclosed is the Pre-Application Consultation Report (Application Document 1) which includes a full summary of consultations.

Public Notices regarding the applications will be placed on the Caledonia website, in the Edinburgh Gazette and a national newspaper on one occasion and in at least one newspaper circulating in the locality in which the Caledonia North Offshore Wind Farm is situated for two successive weeks. The EIAR will be publicly available online at Caledonia's website and at several locations (Section 27).

Have the public been invited to submit comments? **YES**

If YES, to whom and by what closing date?

The public was invited to submit comments as part of the public exhibitions (2022 – 2024) and via the virtual exhibition room. The second round of consultation events aimed to provide an update on the Proposed Development since the first rounds of consultation and outline how feedback from the local community and other stakeholders had been considered through the design by the Applicant. Please also see enclosed EIAR, Pre-Application Consultation Report (Application Document 1) for a full summary of consultations. The public will be invited to comment on the application via Public Notices in local and national newspapers. The closing date will be detailed in the public notice adverts.

Have any consultation meetings with the public been arranged? **YES**

If YES, where and when are these to be held?

Please also see enclosed the Pre-Application Consultation Report (Application Document 1) for a full summary of consultations. Public consultation will continue, including with local communities, during the post application period to keep them informed on progress of proposals.

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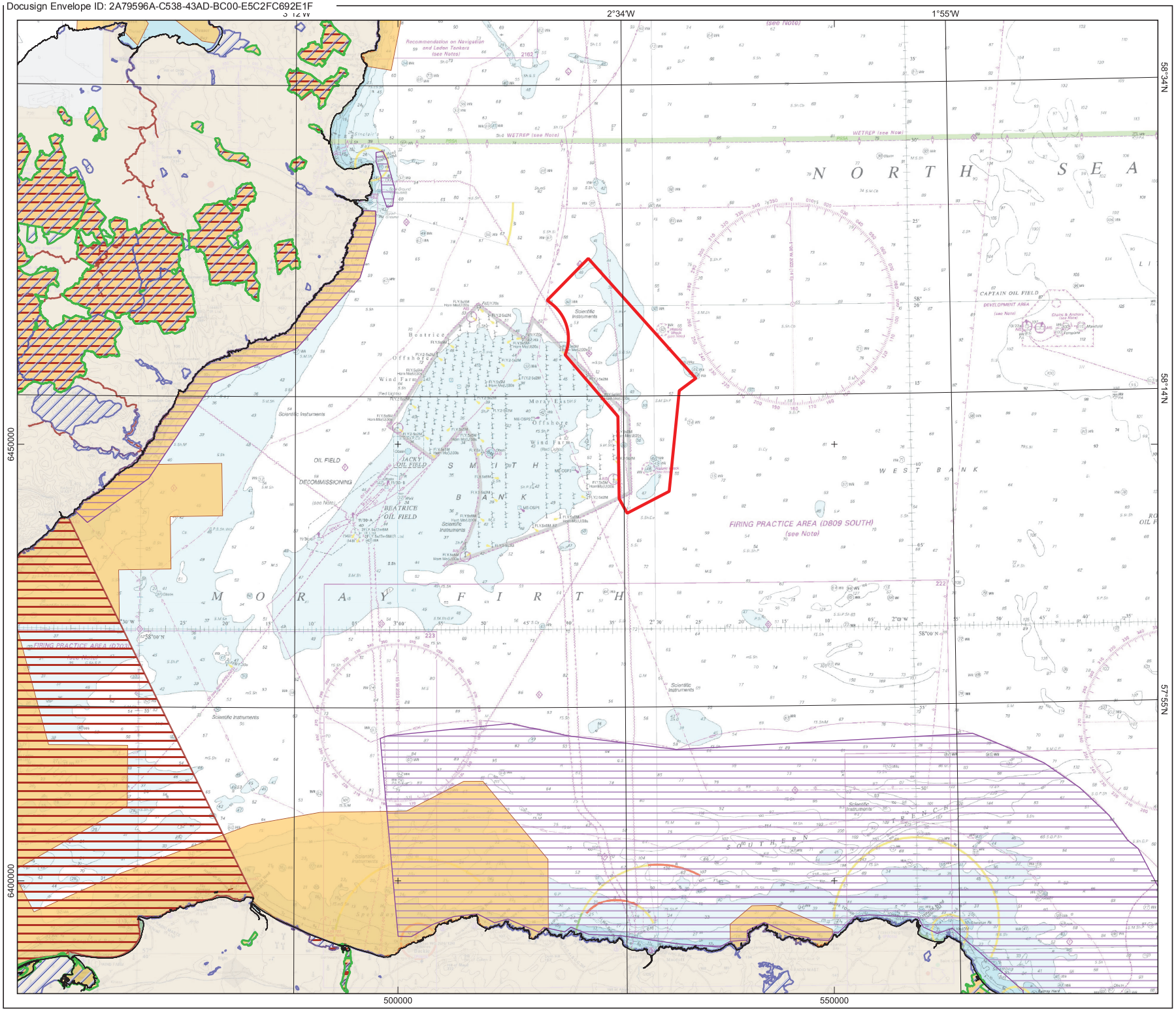
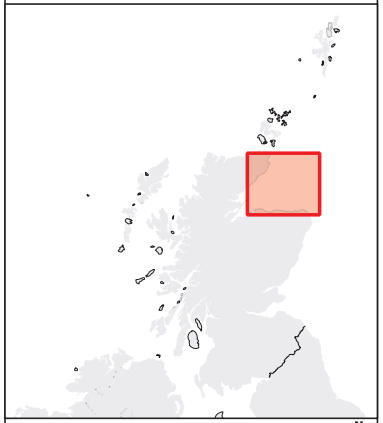


- Caledonia North Offshore Wind Farm
- Marine Protected Area (MPA)
- Ramsar Site
- Site of Special Scientific Interest (SSSI)
- Special Area of Conservation (SAC)
- Special Protection Area (SPA)



0 4 8 12 16 20 km

N

REV	DATE	DOC STATUS	ORIGIN	REVIEW	APP
01	06/11/2024	Information	TG	JS	AS

CALEDONIA Offshore Wind Farm

GEODETIC PARAMETERS
WGS 84 / UTM zone 30N (EPSG:32630)

DRAWING TITLE

Caledonia North Offshore Wind Farm S36 and Generation Marine Licence Boundary

STATUS	SCALE	
Information	1:400,000 @ A3	
DRAWING NUMBER	SHEET NO	REV
UKCAL-CWF-CON-PRT-MAP-00003	01 of 01	01

ID	OSGB36 British National Grid			WGS84 Latitude - Longitude				WGS84 UTM Zone 30N	
	X_BNG	Y_BNG	NGR	Lat (DDM)	Lon (DDM)	Lat (DD)	Lon (DD)	X_UTM30N	Y_UTM30N
1	375528.983	929965.533	ND 75529 29967	58° 15.461' N	2° 25.121' W	58.25768994	-2.41868027	534113.89	6457547.34
2	375527.83	929964.7	ND 75528 29966	58° 15.461' N	2° 25.122' W	58.25768239	-2.41869982	534112.75	6457546.49
3	375518.965	929958.292	ND 75519 29960	58° 15.457' N	2° 25.131' W	58.25762434	-2.41885021	534103.98	6457539.95
4	375469.581	929922.598	ND 75470 29924	58° 15.438' N	2° 25.181' W	58.25730101	-2.41968788	534055.13	6457503.53
5	373621.997	928587.164	ND 73622 28589	58° 14.712' N	2° 27.061' W	58.24519997	-2.45101688	532227.62	6456140.85
6	372295.149	917073.091	ND 72296 17075	58° 8.502' N	2° 28.335' W	58.14170788	-2.47224302	531071.77	6444608.66
7	367439.333	914639.142	ND 67440 14641	58° 7.171' N	2° 33.262' W	58.119516	-2.55437303	526252.72	6442103.06
8	367439.328	914639.139	ND 67440 14641	58° 7.171' N	2° 33.262' W	58.11951598	-2.55437311	526252.71	6442103.06
9	366994.022	915485.621	ND 66994 15487	58° 7.625' N	2° 33.723' W	58.12708528	-2.56205109	525794.92	6442942.82
10	366548.717	916332.103	ND 66549 16334	58° 8.079' N	2° 34.184' W	58.13465411	-2.56973231	525337.13	6443782.58
11	366548.715	917271.333	ND 66549 17273	58° 8.585' N	2° 34.192' W	58.14308948	-2.56986712	525323.21	6444721.67
12	366548.715	918210.563	ND 66549 18212	58° 9.091' N	2° 34.200' W	58.15152483	-2.570002	525309.28	6445660.76
13	366548.715	919149.793	ND 66549 19151	58° 9.598' N	2° 34.208' W	58.15996016	-2.57013694	525295.35	6446599.86
14	366548.716	920089.023	ND 66549 20091	58° 10.104' N	2° 34.216' W	58.16839549	-2.57027194	525281.42	6447538.95
15	366548.718	921028.253	ND 66549 21030	58° 10.610' N	2° 34.224' W	58.17683081	-2.57040701	525267.49	6448478.04
16	366548.72	921967.483	ND 66549 21969	58° 11.116' N	2° 34.233' W	58.18526611	-2.57054214	525253.56	6449417.14
17	366548.723	922906.712	ND 66549 22908	58° 11.622' N	2° 34.241' W	58.19370141	-2.57067733	525239.63	6450356.23
18	366548.727	923845.942	ND 66549 23847	58° 12.128' N	2° 34.249' W	58.20213669	-2.57081259	525225.7	6451295.32
19	366548.732	924785.172	ND 66549 24787	58° 12.634' N	2° 34.257' W	58.21057196	-2.57094791	525211.77	6452234.42
20	366548.737	925724.402	ND 66549 25726	58° 13.140' N	2° 34.265' W	58.21900722	-2.5710833	525197.84	6453173.51
21	366548.737	925735.944	ND 66549 25737	58° 13.147' N	2° 34.265' W	58.21911087	-2.57108496	525197.67	6453185.05
22	365942.762	926463.785	ND 65943 26465	58° 13.536' N	2° 34.890' W	58.22560107	-2.58150593	524580.98	6453903.79
23	365336.788	927191.627	ND 65337 27193	58° 13.925' N	2° 35.516' W	58.23209041	-2.5919307	523964.3	6454622.53
24	364730.813	927919.47	ND 64731 27921	58° 14.315' N	2° 36.142' W	58.2385789	-2.60235927	523347.61	6455341.27
25	364124.839	928647.313	ND 64125 28649	58° 14.704' N	2° 36.767' W	58.24506652	-2.61279166	522730.92	6456060.01
26	363518.865	929375.157	ND 63519 29377	58° 15.093' N	2° 37.394' W	58.25155329	-2.62322785	522114.23	6456778.75
27	362912.891	930103.002	ND 62913 30104	58° 15.482' N	2° 38.020' W	58.25803919	-2.63366786	521497.55	6457497.49
28	362306.917	930830.848	ND 62307 30832	58° 15.871' N	2° 38.647' W	58.26452424	-2.64411168	520880.86	6458216.23
29	361700.944	931558.695	ND 61701 31560	58° 16.261' N	2° 39.274' W	58.27100843	-2.65455932	520264.17	6458934.97
30	361128.179	932248.162	ND 61129 32250	58° 16.629' N	2° 39.866' W	58.27715002	-2.66443817	519681.26	6459615.83
31	360606.464	932876.165	ND 60607 32878	58° 16.965' N	2° 40.406' W	58.28274343	-2.6734395	519150.3	6460235.99
32	360648.915	932981.437	ND 60649 32983	58° 17.022' N	2° 40.364' W	58.28369266	-2.67273361	519191.18	6460341.87
33	360710.441	933151.497	ND 60711 33153	58° 17.114' N	2° 40.303' W	58.28522544	-2.67171344	519250.17	6460512.82

34	360718.756	933175.85	ND 60719 33177	58° 17.127' N	2° 40.295' W	58.2854449	-2.6715758	519258.12	6460537.29
35	360717.857	933173.212	ND 60718 33175	58° 17.125' N	2° 40.295' W	58.28542113	-2.67159069	519257.26	6460534.64
36	360740.756	933240.276	ND 60741 33242	58° 17.162' N	2° 40.273' W	58.28602546	-2.67121161	519279.16	6460602.04
37	360789.687	933391.38	ND 60790 33393	58° 17.243' N	2° 40.224' W	58.28738687	-2.67040288	519325.84	6460753.84
38	360833.794	933543.963	ND 60834 33545	58° 17.326' N	2° 40.181' W	58.28876112	-2.6696766	519367.68	6460907.06
39	360873.033	933697.869	ND 60873 33699	58° 17.409' N	2° 40.142' W	58.29014682	-2.66903352	519404.62	6461061.52
40	360907.363	933852.944	ND 60908 33854	58° 17.493' N	2° 40.108' W	58.29154257	-2.6684743	519436.64	6461217.08
41	360936.751	934009.031	ND 60937 34011	58° 17.577' N	2° 40.080' W	58.29294697	-2.6679995	519463.71	6461373.58
42	360961.167	934165.972	ND 60962 34167	58° 17.662' N	2° 40.057' W	58.2943586	-2.66760962	519485.79	6461530.86
43	360980.586	934323.61	ND 60981 34325	58° 17.747' N	2° 40.038' W	58.29577604	-2.66730506	519502.87	6461688.76
44	360994.988	934481.785	ND 60995 34483	58° 17.832' N	2° 40.025' W	58.29719785	-2.66708613	519514.92	6461847.13
45	361004.359	934640.337	ND 61005 34642	58° 17.917' N	2° 40.017' W	58.29862261	-2.66695308	519521.93	6462005.8
46	361008.69	934799.107	ND 61009 34801	58° 18.003' N	2° 40.014' W	58.30004887	-2.66690604	519523.9	6462164.61
47	361007.975	934957.935	ND 61008 34959	58° 18.089' N	2° 40.017' W	58.30147519	-2.66694507	519520.83	6462323.4
48	361002.217	935116.659	ND 61003 35118	58° 18.174' N	2° 40.024' W	58.30290014	-2.66707015	519512.72	6462482.01
49	360991.42	935275.12	ND 60992 35277	58° 18.259' N	2° 40.037' W	58.30432228	-2.66728115	519499.57	6462640.29
50	360975.596	935433.159	ND 60976 35435	58° 18.344' N	2° 40.055' W	58.30574018	-2.66757787	519481.4	6462798.07
51	360954.76	935590.615	ND 60955 35592	58° 18.429' N	2° 40.078' W	58.30715239	-2.66796003	519458.23	6462955.19
52	360928.934	935747.329	ND 60929 35749	58° 18.513' N	2° 40.106' W	58.3085575	-2.66842725	519430.08	6463111.5
53	360898.143	935903.144	ND 60898 35905	58° 18.597' N	2° 40.139' W	58.30995409	-2.66897906	519396.98	6463266.83
54	360862.419	936057.903	ND 60863 36059	58° 18.680' N	2° 40.177' W	58.31134074	-2.66961493	519358.96	6463421.03
55	360821.797	936211.448	ND 60822 36213	58° 18.763' N	2° 40.220' W	58.31271606	-2.67033421	519316.06	6463573.95
56	360776.32	936363.626	ND 60777 36365	58° 18.845' N	2° 40.268' W	58.31407866	-2.67113619	519268.33	6463725.43
57	360726.031	936514.283	ND 60726 36516	58° 18.926' N	2° 40.321' W	58.31542716	-2.67202007	519215.81	6463875.32
58	360670.984	936663.266	ND 60671 36665	58° 19.006' N	2° 40.379' W	58.3167602	-2.67298497	519158.56	6464023.46
59	360611.232	936810.426	ND 60612 36812	58° 19.085' N	2° 40.442' W	58.31807643	-2.67402992	519096.63	6464169.71
60	360546.836	936955.614	ND 60547 36957	58° 19.162' N	2° 40.509' W	58.31937452	-2.67515388	519030.09	6464313.92
61	360477.861	937098.683	ND 60478 37100	58° 19.239' N	2° 40.581' W	58.32065316	-2.6763557	518959	6464455.94
62	360404.377	937239.489	ND 60405 37241	58° 19.315' N	2° 40.658' W	58.32191106	-2.6776342	518883.43	6464595.63
63	360326.458	937377.889	ND 60327 37379	58° 19.389' N	2° 40.739' W	58.32314694	-2.67898809	518803.47	6464732.86
64	360244.183	937513.746	ND 60245 37515	58° 19.462' N	2° 40.825' W	58.32435956	-2.68041599	518719.19	6464867.47
65	360157.633	937646.92	ND 60158 37648	58° 19.533' N	2° 40.915' W	58.32554769	-2.68191649	518630.68	6464999.34
66	360066.898	937777.278	ND 60067 37779	58° 19.603' N	2° 41.009' W	58.32671013	-2.68348807	518538.02	6465128.33
67	359972.068	937904.688	ND 59972 37906	58° 19.671' N	2° 41.108' W	58.3278457	-2.68512914	518441.31	6465254.31
68	359873.239	938029.022	ND 59874 38030	58° 19.737' N	2° 41.210' W	58.32895326	-2.68683805	518340.65	6465377.15

69	359770.511	938150.154	ND 59771 38152	58° 19.802' N	2° 41.317' W	58.33003168	-2.68861309	518236.14	6465496.74
70	359663.988	938267.963	ND 59664 38269	58° 19.865' N	2° 41.427' W	58.33107987	-2.69045245	518127.88	6465612.95
71	359553.776	938382.328	ND 59554 38384	58° 19.926' N	2° 41.541' W	58.33209678	-2.69235429	518015.99	6465725.66
72	359439.988	938493.135	ND 59440 38495	58° 19.985' N	2° 41.659' W	58.33308137	-2.69431669	517900.57	6465834.76
73	359322.738	938600.272	ND 59323 38602	58° 20.042' N	2° 41.780' W	58.33403265	-2.69633766	517781.75	6465940.14
74	359202.144	938703.631	ND 59202 38705	58° 20.097' N	2° 41.905' W	58.33494965	-2.69841517	517659.64	6466041.69
75	359078.327	938803.107	ND 59079 38805	58° 20.150' N	2° 42.033' W	58.33583145	-2.70054712	517534.36	6466139.31
76	359033.779	938837.748	ND 59034 38839	58° 20.168' N	2° 42.079' W	58.33613839	-2.70131401	517489.3	6466173.28
77	358644.901	939163.351	ND 58645 39165	58° 20.342' N	2° 42.481' W	58.33902593	-2.70801313	517095.65	6466493.05
78	358742.232	939259.537	ND 58743 39261	58° 20.394' N	2° 42.382' W	58.33989893	-2.70636819	517191.54	6466590.67
79	359371.922	939881.702	ND 59372 39883	58° 20.733' N	2° 41.743' W	58.34554528	-2.69572407	517811.88	6467222.1
80	360001.613	940503.865	ND 60002 40505	58° 21.071' N	2° 41.105' W	58.35119074	-2.68507655	518432.23	6467853.52
81	360685.521	941179.65	ND 60686 41181	58° 21.439' N	2° 40.411' W	58.35732175	-2.67350841	519105.99	6468539.36
82	361369.43	941855.435	ND 61370 41857	58° 21.807' N	2° 39.716' W	58.36345171	-2.66193627	519779.75	6469225.21
83	362053.338	942531.219	ND 62054 42533	58° 22.175' N	2° 39.022' W	58.36958062	-2.65036011	520453.51	6469911.05
84	362737.247	943207.002	ND 62738 43208	58° 22.543' N	2° 38.327' W	58.37570848	-2.63877993	521127.27	6470596.9
85	363421.155	943882.784	ND 63421 43884	58° 22.910' N	2° 37.632' W	58.38183529	-2.62719574	521801.03	6471282.74
86	364045.985	943164.578	ND 64046 43166	58° 22.526' N	2° 36.984' W	58.37543716	-2.61639938	522436.44	6470573.93
87	364670.815	942446.374	ND 64671 42448	58° 22.142' N	2° 36.336' W	58.36903812	-2.60560693	523071.85	6469865.12
88	365295.645	941728.17	ND 65296 41730	58° 21.758' N	2° 35.689' W	58.36263817	-2.59481839	523707.26	6469156.31
89	365920.475	941009.967	ND 65921 41011	58° 21.374' N	2° 35.042' W	58.35623729	-2.58403374	524342.68	6468447.5
90	366545.305	940291.764	ND 66546 40293	58° 20.990' N	2° 34.395' W	58.34983551	-2.57325301	524978.09	6467738.69
91	367170.135	939573.563	ND 67170 39575	58° 20.606' N	2° 33.749' W	58.34343281	-2.56247617	525613.5	6467029.88
92	367794.966	938855.362	ND 67795 38857	58° 20.222' N	2° 33.102' W	58.3370292	-2.55170323	526248.91	6466321.07
93	368419.796	938137.161	ND 68420 38138	58° 19.837' N	2° 32.456' W	58.33062467	-2.54093418	526884.32	6465612.25
94	369044.627	937418.962	ND 69045 37420	58° 19.453' N	2° 31.810' W	58.32421923	-2.53016904	527519.73	6464903.44
95	369669.458	936700.763	ND 69670 36702	58° 19.069' N	2° 31.164' W	58.31781288	-2.51940778	528155.14	6464194.63
96	370294.289	935982.565	ND 70295 35984	58° 18.684' N	2° 30.519' W	58.31140562	-2.50865042	528790.56	6463485.81
97	370919.119	935264.367	ND 70919 35266	58° 18.300' N	2° 29.874' W	58.30499745	-2.49789695	529425.97	6462776.99
98	371543.95	934546.171	ND 71544 34547	58° 17.915' N	2° 29.229' W	58.29858837	-2.48714736	530061.38	6462068.18
99	372168.782	933827.974	ND 72169 33829	58° 17.531' N	2° 28.584' W	58.29217838	-2.47640166	530696.79	6461359.36
100	372793.613	933109.779	ND 72794 33111	58° 17.146' N	2° 27.940' W	58.28576748	-2.46565984	531332.2	6460650.54
101	373418.444	932391.584	ND 73419 32393	58° 16.761' N	2° 27.295' W	58.27935567	-2.45492191	531967.61	6459941.73
102	374043.275	931673.389	ND 74044 31675	58° 16.377' N	2° 26.651' W	58.27294296	-2.44418786	532603.02	6459232.91
103	374668.107	930955.195	ND 74668 30957	58° 15.992' N	2° 26.007' W	58.26652933	-2.43345768	533238.43	6458524.09

104	375292.938	930237.002	ND 75293 30238	58° 15.607' N	2° 25.364' W	58.2601148	-2.42273139	533873.84	6457815.27
105	375529.066	929965.593	ND 75529 29967	58° 15.461' N	2° 25.121' W	58.25769048	-2.41867887	534113.97	6457547.4