



**Inch Cape**  
OFFSHORE LIMITED

Inch Cape Offshore Wind Farm

**Construction Programme (CoP)**

**October 2024**

## Inch Cape Acceptance

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## Revision History (previous five)

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## Consent Plan Overview

### Purpose and Objectives of the Plan

This Construction Programme (CoP) has been prepared to address the specific requirements of the relevant conditions attached to the following consent documents (collectively referred to as 'the Consents'):

- Section 36 Consent (dated 14<sup>th</sup> June 2023),
- Generating Station Marine Licence (MS-00010140 dated 15<sup>th</sup> June 2023); and
- Offshore Transmission Infrastructure (OfTI) Marine Licence (MS-00010593 dated 9<sup>th</sup> November 2023).

The Consents have been issued to Inch Cape Wind Offshore Limited (hereafter referred to as 'ICOL'), for the construction, operation and decommissioning of the Inch Cape Offshore Wind Farm (OWF) and Offshore Transmission Infrastructure (OfTI), (hereafter referred to as 'the Development').

This Offshore CoP has been prepared to discharge consent conditions for both the Generating Station and OfTI simultaneously.

The overall aims and objectives of the CoP is to set out the intended construction programme for the Inch Cape Project. All relevant Inch Cape Contractors involved in the Inch Cape Project are required to comply with this CoP through their conditions of contract.

This document is applicable to the construction phase of the project, i.e. all construction to be undertaken up to the Final Commissioning of the Development.

The CoP is a live document that will be reviewed regularly and updated as required. Information within this document is accurate at the time of submission, but it is recognised that amendments or updates may be required to reflect changes following consultation, changes to best practice, lessons learned, etc, prior to the end of the Construction phase of the Development. The process by which this CoP will be reviewed is presented in Section 1.5.

## Scope of the Plan

This document has been produced in line with the requirements of the consent conditions, industry standards, and best practices. The CoP conveys information on the following:

- The proposed date for the commencement of construction activities (OWF and OfTI);
- The proposed timings of mobilisation of plant and the delivery of materials including onshore laydown areas;
- The proposed timings and sequencing of construction work for all elements of the Inch Cape Offshore Wind Farm Development;
- Contingency planning for poor weather or other delays; and
- The scheduled date for final commissioning of the Inch Cape Offshore Wind Farm.

## Plan Structure

The CoP has been structured as follows:

- Sections 1, 2 and 3 provide an introduction to the project and sets out the scope and objectives of the CoP the process for making updates to this document and demonstrates compliance with the offshore Consents.
- Section 4 details an overview of the wind farm and transmission infrastructure construction; and
- Sections 5 and 6 provide the detailed programmes for the OWF and OfTI construction.

## Plan Audience

This CoP will be submitted for approval to the Scottish Ministers/Licensing Authority in consultation with other stakeholders. Once approved and the condition discharged, the CoP is intended to be referred to by personnel involved in the construction of the Development. This includes ICOL personnel, contractors and subcontractors. All documentation and method statements produced in relation to the Development must incorporate the requirements and comply with this CoP.

Compliance with the CoP will be monitored by ICOL's Environmental Clerk of Works (ECoW), ICOL's Consent Team, Inch Cape appointed contractors, and Marine Directorate Licencing Operations Team (MD-LOT).

## Plan Locations

Copies of this CoP will be available from the following locations:

- ICOL's Project Office, 5<sup>th</sup> Floor, 40 Princes Street, Edinburgh, EH2 2BY;
- ICOL's Marine Coordination Centre (MCC);



- The premises of any main contractors and subcontractors undertaking work on behalf of ICOL;
- ICOL's Environmental Clerk of Works (ECoW); and
- Aboard any vessels carrying out construction activities for the Development.

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## Acronyms & Abbreviations

Acronym	Term
AEZ	Archaeological Exclusion Zone
CaP	Cable Plan
CDM	Construction Design and Management
CEA	Construction Environmental Advisor
CEMP	Construction Environmental Management Plan
CLV	Cable Laying Vessel
CMID	Common Marine Inspection Document
CMS	Construction Method Statement
CoP	Construction Programme
EC	Export Cable
ECoW	Environmental Clerk of Works
EIAR	Environmental Impact Assessment Report
EMP	Environmental Management Plan
ERCoP	Emergency Response Co-operation Plan
ES	Environmental Statement
FLO	Fisheries Liaison Officer
FMMS	Fisheries Management and Mitigation Strategy
FTCFWG	Forth and Tay Commercial Fisheries Working Group
FTRAG	Forth and Tay Regional Advisory Group



## Acronyms & Abbreviations

Acronym	Term
HES	Historic Environment Scotland
HSE	Health and Safety Executive
IAC	Inter-array Cable
ICOL	Inch Cape Offshore Limited
JAP	Jacket Assembly Port
JFLT	Jacket Flange Lifting Tool
km	Kilometre
kV	Kilovolts
MCA	Maritime and Coastguard Agency
MCC	Marine Co-ordination Centre
MD-LOT	Marine Directorate Licensing Operations Team
MHWS	Mean High Water Springs
ML	Marine Licence
MMO	Marine Mammal Observer
MW	Megawatt
NLB	Northern Lighthouse Board
NOTAMs	Notice to Airmen
NtMs	Notice to Mariners
OFLO	Offshore Fisheries Liaison Officer



## Acronyms & Abbreviations

Acronym	Term
OFTI	Offshore Transmission Infrastructure
OFTO	Offshore Transmission Owner
OFTW	Offshore Transmission Works
OSP	Offshore Substation Platform
OWF	Offshore Wind Farm
PAD	Protocol for Archaeological Discoveries
PEMP	Project Environmental Monitoring Programme
PLGR	Pre-Lay Grapnel Run
PS	Piling Strategy
S36	Section 36
SIMOPs	Simultaneous Operations
SNH	Scottish Natural Heritage (now NatureScot)
UK	United Kingdom
VMP	Vessel Management Plan
WTG	Wind Turbine Generator

## Glossary

Defined Term	Meaning
Development	The Inch Cape Offshore Wind Farm (the Wind Farm) and Offshore Transmission Infrastructure (OFTI) being developed by ICOL.



## Glossary

Defined Term	Meaning
Development Area	The area for the Wind Farm, within which all WTGs, IACs, interconnector cables, OSP and the initial part of the Offshore Export Cable and any other associated works must be sited. As stipulated in the Crown Estate agreement for lease.
2013 Environmental Statement (ES)	Refers to the document in which the Environmental Impact Assessment (EIA) was carried out for the Inch Cape 2014 Consent.
2018 Environmental Impact Assessment (EIA) Report (EIAR)	Refers to the document produced in 2018 to accompany the application for Consent of the Development (granted in 2019) following a material change in design.
Inch Cape Offshore Transmission Infrastructure (OfTI)	Components of the Development comprising the offshore export cable and OSP which are permitted by the OfTI Marine Licence (MS-00010593).
Inch Cape Offshore Transmission Works (OfTW)	Offshore Transmission Works (i.e., construction methods) associated with Inch Cape Offshore Wind Farm.
Inch Cape Offshore Wind Farm (OWF)/the Wind Farm	A component of the Development, comprising wind turbines and their foundations and substructures, and IACs.
Inch Cape Onshore Transmission Works (OnTW)	Onshore transmission works associated with the Inch Cape Offshore Wind Farm comprising the construction, operation and decommissioning of an onshore substation, electricity cables and associated infrastructure required to export electricity from the Inch Cape Offshore Wind Farm to the National Electricity Transmission System.



## Glossary

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Defined Term	Meaning
Offshore Export Cables	The subsea, buried or protected electricity cables running from the offshore wind farm substation to the landfall and transmitting the electricity generated to the onshore cables for transmission onwards to the onshore substation and the electrical grid connection.
Offshore Export Cable Corridor	The area within which the Offshore Export Cables will be laid from the OSP and up to Mean High Water Springs.
(The) Consents	Collective term used to describe the Section 36 consents and Marine Licences issued to ICOL.

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## 1 Introduction

### 1.1 Background

The Inch Cape Offshore Wind Farm (the Wind Farm) and Offshore Transmission Infrastructure (OfTI), hereafter referred to as the Development, is being developed by Inch Cape Offshore Limited (ICOL).

ICOL originally applied for consent for the Development in 2013, and this was updated, and a revised application submitted in 2018. In 2013 an Environmental Statement (ES) was produced to accompany the initial application based on the original design of the Wind Farm. This was also subsequently updated in 2018 with the production of an Environmental Impact Assessment Report (EIAR) to enable the use of progressions in technology following the original consent, through a reduction in turbine numbers (fewer turbines with larger generating capacity), and reduction in associated cabling (inter-array and export cables) in order to maximise efficiencies whilst minimising environmental impacts. The EIAR updated the 2013 ES and where impacts were predicted to be less than those already assessed, a new assessment was not undertaken as the conclusions drawn in the original 2013 ES remained valid.

The Section 36 Consent, Generating Station (GS) Marine Licence, and OfTI Marine Licence for the revised design were granted by Scottish Ministers on 17<sup>th</sup> June 2019. The Section 36 Consent was subsequently varied on 16<sup>th</sup> July 2020, 22<sup>nd</sup> July 2021, and 14<sup>th</sup> June 2023, the GS Marine Licence was varied on 14<sup>th</sup> June 2023 (Licence No. MS-00010140); and the OfTI Marine Licence varied on 23<sup>rd</sup> August, and amended on 9<sup>th</sup> November 2023 (Licence No. MS-00010593).

Two separate Marine Licences were granted for additional works at the landfall. These licences concern the Additional Landfall Works to facilitate the construction of the export cables through the seawall (Licence No. MS-00010672 issued on 15th January 2024), and the potential installation of a temporary Cofferdam to support the works (Licence No. MS-00010690 issued on 23rd May 2024).

### 1.2 Plan Objectives

This Construction Programme (CoP) has been prepared to address the specific requirements of the relevant conditions in the OfTI Marine Licence (Condition 3.2.2.5), Generation Station Marine Licence (Condition 3.2.2.6) and Section 36 consent (Annex 2, Condition 9). The conditions must be discharged through approval of the Scottish Ministers prior to the commencement of offshore construction, which includes the approval of this CoP.

The objectives of the CoP are to provide:

- the proposed timings and programming of construction of the Inch Cape Offshore Wind Farm Development, specifically to provide:
  - The proposed date for commencement of construction activities;



- The proposed details of mobilisation of plant and delivery of materials;
- The proposed timings and sequencing of construction of all elements of the Development (including the OWF and the OfTI);
- Contingency planning for poor weather and other delays; and
- The proposed date for final commissioning of the Development.

The relevant conditions setting out the requirement for the CoP approval, and which are to be discharged by the CoP are presented in full in Table 1.1, below.

### 1.3 Linkages with other Consent Plans and Consent Conditions

The consent conditions require that the development of the CoP will be consistent with a number of other consent plans and consent conditions. Details of the linkages and relevant cross references are set out in Table 1.1.

It should be noted that information is not repeated across consent plans, rather, where pertinent information is available in linked consent plans, the relevant consent plans are referred to. The plans detailed below are not required for approval of this CoP but are provided for ease of reference.

**Table 1.1: Construction Programme Links with Other Consent Plans and Documents**

Reference	Description and relevance to the CoP	Cross Referenced in this Offshore CoP
<b>Construction Method Statement (CMS)</b>		
S36 Condition 10	Details the construction methods, setting out good practice construction measures and how mitigation measures proposed in the EIAR are being implemented during construction	Section 5 and Section 6
OfTI ML Condition 3.2.2.6		
GS ML Condition 3.2.2.7		
<b>Cable Plans</b>		
S36 Condition 19	Contains details on environmental sensitivities and design considerations to mitigate, as far as possible, the effects of cable laying and associated cable protection during installation and operation of the Development	Section 5.5.3
OfTI ML Condition 3.2.2.15		Section 6.4.1
GS ML Condition 3.2.2.16		
<b>Piling Strategies</b>		
S36 Condition 11	Piling methods and programme are detailed and includes the mitigation of the effects on noise sensitive species.	Section 5.5
OfTI ML Condition 3.2.2.7		Section 6.4
GS ML Condition 3.2.2.8		



## 1.4 Document Structure

The structure of this CoP is provided in Table 1.2, below.

**Table 1.2: Construction Programme (CoP) Document Structure**

Section No	Section Title	Summary of Content
1	Introduction	An overview of the Development and its associated consent requirements
2	Wind Farm and OfTI Overview	Overview of the Project as a whole
3	Consent Conditions & Environmental Statement Compliance	Provides an overview of the Project and the consent requirements that underpin the content of this CoP. It also sets out the purpose, objectives and scope of the CoP and sets out the process for making updates and amendments
4	Wind Farm and Offshore Transmission Infrastructure Construction Overview	Provides detail on the construction milestones and provides key dates and durations
5	Development Area Construction Programme	Provides details on the key milestone activities involved in the construction of the Development Area
6	Offshore Transmission Infrastructure Construction Programme	Provides details on the key milestone activities involved in the construction of the OfTI

## 1.5 Document Control and Management of Change

This CoP is a 'live document' and will be regularly revised at intervals agreed with Scottish Ministers, to ensure that the information is kept up to date. Linkages exist between a number of offshore consent plans and programmes as highlighted in Table 1.1. As plans and programmes are updated, there will be a review of inter-linkages with other documents to ensure these are also updated as relevant.





It is expected that following a review, there may be a requirement to undertake a non-material or material update of the document. It is anticipated that a material change would be defined as one that fundamentally affects key information being communicated in the CoP; a change in proposed mitigation or monitoring commitments; or a change that may increase environmental risk. A non-material change would be expected to be one that is communicated for information only; does not fundamentally affect assumptions made based on previous information provided; does not result in deviation from agreed commitments; or does not increase the level of environmental risk.

Where an update is required, MD-LOT will be consulted to determine whether the level of changes signifies a material change to an approved plan that requires formal consultation, or a non-material update to be approved by MD-LOT. MD-LOT may wish to liaise with statutory stakeholders for advice to assist in making these determinations.

It is anticipated that the review and update process will be as follows:

1. Document review undertaken by ICOL (triggered by influencing factor listed above).
2. Need for an update of document communicated to MD-LOT and ICOL to inform MD-LOT whether it is deemed it as material or non-material.
3. MD-LOT to notify ICOL whether they agree with the materiality of the change (and therefore whether or not formal consultation will be required).
4. If change is considered non-material, ICOL will provide an updated CoP for MD-LOT to review, approve and make available.

Or:

5. If change is considered material, ICOL updates the CoP, and a formal consultation on the updated CoP is undertaken.

## 2 Wind Farm and OfTI Overview

### 2.1 Project Description

The Inch Cape Offshore Wind Farm will be located approximately 15 to 22 km (eight to 12 nautical miles) off the Angus coastline, to the east of the Firth of Tay. The Development Area is approximately 150 km<sup>2</sup> and will contain 72 (Wind Turbine Generators) WTGs, one Offshore Substation Platform (OSP), 66 kilovolts (kV) inter-array cabling and the initial section of the Export Cables between the Development Area boundary and OSP.

The Offshore Export Cable Corridor will contain the Offshore Export Cables. The Offshore Export Cable Corridor will consist of two 220 kV export cables approximately 85 km long, between the landfall point at Cockenzie in East Lothian and the boundary of the Development Area, and 1.4 km across at the widest point, reducing to approximately 250 m at the landfall.

The location and extent of the Development Area and Offshore Cable Corridor is shown in Figure 2.1

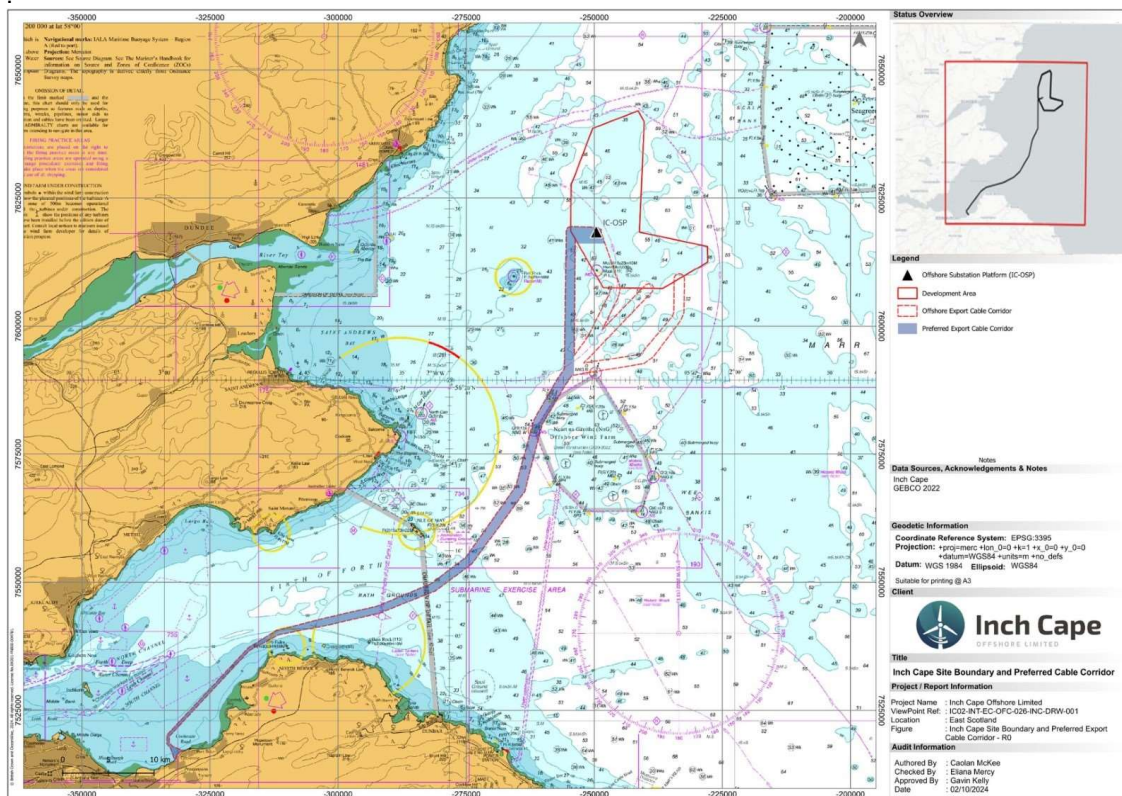


Figure 2.1: Project Location



## **2.2 Timing of Construction Works**

Offshore construction is expected to commence April 2025 (at landfall) and is anticipated to take approximately two years, running to August 2027. These dates are subject to change. It is expected that construction work will be carried out 24/7, year round (i.e., 24 hour working, seven days a week). Details of the full programme for the construction works are provided herein.

### 3 Consent Conditions & EIAR Compliance

At the time of submission of this CoP, the Inch Cape project benefits from the following consents:

- The S36 Consent;
- The Generation Marine Licence; and
- The OfTI Marine Licence;
- Additional Landfall Works Marine Licence.

This CoP has been prepared to satisfy the criteria of the S36 condition 9, OfTI Marine Licence condition 3.2.2.5, Generation Marine Licence condition 3.2.2.6 as set out in Table 3.1.

Table 3.1 provides the relevant consent conditions, along with details of where information to address each part of the condition has been provided. In addition to the specific licence requirements for the Development.

The requirement to construct and operate the Development in accordance with the measures identified in the Application arise from specific requirements in the Consents. The Consents require the works be constructed in accordance with the licence, the Application and supporting ES and EIAR and related documents.

This CoP, and the remaining consent plans have been put together considering the commitments made within the ES and EIAR and corresponding consent conditions.



**Table 3.1: Consent Conditions to be Discharged by this Offshore CoP**

Condition Document	Condition Reference	Condition Text	Relevant Section of this CoP
Section 36	Condition 9	The Company must, no later than six months prior to the Commencement of the Development, submit a Construction Programme (“CoP”), in writing, to the Scottish Ministers for their written approval. Such approval may only be granted following consultation by the Scottish Ministers with Scottish Natural Heritage (“SNH”), Maritime and Coastguard Agency (“MCA”) and Northern Lighthouse Board (“NLB”), and any such other advisors or organisations as may be required at the discretion of the Scottish Ministers.	The submission of the CoP document satisfies the condition  Consultation will be carried out by MD-LOT as part of the approval process
		The CoP must set out:	Section 5.2
		a. The proposed date for Commencement of Development;	
		b. The proposed timings for mobilisation of plant and delivery of materials, including details of onshore lay-down areas;	Section 5.4
		c. The proposed timings and sequencing of construction work for all elements of the Development infrastructure;	Section 5.5
d. Contingency planning for poor weather or other unforeseen delays; and	Section 5.6		
e. The scheduled date for Final Commissioning of the Development.	Section 5.7		



Condition Document	Condition Reference	Condition Text	Relevant Section of this CoP
		The final CoP must be sent to Aberdeenshire Council, Angus Council, East Lothian Council, Fife Council and Dundee City Council for information only.	A copy of the approved CoP will be provided to these bodies.
OfTI Marine Licence	Condition 3.2.2.5	The Licensee must, no later than six months prior to the Commencement of the Works, submit a CoP, in writing, to the Licensing Authority for its written approval. Commencement of the Works cannot take place until such approval is granted. Such approval may only be granted following consultation by the Licensing Authority with SNH, MCA, NLB and any such other advisors or organisations as may be required at the discretion of the Licensing Authority.	The submission of the CoP document satisfies the condition  Consultation will be carried out by MD-LOT as part of the approval process
		The CoP must set out:	Section 6.2
		a. The proposed date for Commencement of the Works;	
		b. The proposed timings for mobilisation of plant and delivery of materials, including details of onshore lay-down areas;	Section 6.3
		c. The proposed timings and sequencing of construction work for all elements of the Works infrastructure	<b>Error! Reference source not found.</b> Section 6.4
		d. Contingency planning for poor weather or	Section 6.5

Condition Document	Condition Reference	Condition Text	Relevant Section of this CoP
		other unforeseen delays; and	
		e. The scheduled date for Completion of the Works.	Section 6.6
		The final CoP must be sent to Aberdeenshire Council, Angus Council, East Lothian Council, Fife Council and Dundee City Council for information only.	A copy of the approved CoP will be provided to these bodies.
Generation Station Marine Licence	3.2.2.6	The Licensee must, no later than six months prior to the Commencement of the Works, submit a CoP, in writing, to the Licensing Authority for its written approval. Commencement of the Works cannot take place until such approval is granted. Such approval may only be granted following consultation by the Licensing Authority with SNH, MCA, NLB and any such other advisors or organisations as may be required at the discretion of the Licensing Authority.	The submission of the CoP document satisfies the condition  Consultation will be carried out by MD-LOT as part of the approval process
		The CoP must set out:	Section 5.2
		a. The proposed date for Commencement of the Works;	
		b. The proposed timings for mobilisation of plant and delivery of materials, including details of onshore lay-down areas;	Section 5.4
		c. The proposed timings and sequencing of construction work for all elements of the	Section 5



Condition Document	Condition Reference	Condition Text	Relevant Section of this CoP
		Works infrastructure;	
		d. Contingency planning for poor weather or other unforeseen delays; and	Section 5.6
		e. The scheduled date for Completion of the Works.	Section 5.7
		The final CoP must be sent to Aberdeenshire Council, Angus Council, East Lothian Council, Fife Council and Dundee City Council for information only.	A copy of the approved CoP will be provided to these bodies.



## 4 Offshore Wind Farm and Offshore Transmission Infrastructure Construction Overview

### 4.1 Key Milestone Dates

Table 4.1 below presents the key construction milestone dates for the Inch Cape Project.

Table 4.1: Summary of Key milestone Dates

KEY MILESTONE	ANTICIPATED START	ANTICIPATED FINISH
<b>Inch Cape Project</b>		
Commencement of Inch Cape Project offshore construction (triggered by commencement of licensable works at landfall)	April 2025	August 2027
<b>Inch Cape (Licensable activities under OFTI Marine Licence / Additional Landfall Works Marine Licence)</b>		
Mobilisation of plant and delivery of materials	To match installation timings as set out below	
Pre-Campaign Surveys and Subtidal Seabed Preparation (subject to separate marine licences)	August 2024	31 May 2025
UXO Clearance (subject to separate marine licences)	01 October 2024	30 May 2025
Landfall Works	April 2025	September 2025
<b><u>Pre-Installation Work Export Cable Corridor</u></b>		
<b>Pre-Lay Grapnel Run (PLGR)</b>		
EC1	28 June 2025	2 August 2025
EC2	24 April 2026	01 June 2026
Cable protection system (nearshore)	01 May 2025	30 August 2025
<b><u>Export Cable (EC) Installation and Burial</u></b>		
EC 1	01 July 2025	02 November 2025

<b>KEY MILESTONE</b>	<b>ANTICIPATED START</b>	<b>ANTICIPATED FINISH</b>
<b>EC 2</b>	08 May 2026	22 August 2026
<b>Export Cable Rock Installation</b>	November 2025	August 2026
<b><u>OSP Installation:</u></b>		
<b>Offshore Substation Platform (OSP) Jacket Installation</b>	01 July 2025	16 October 2025
<b>OSP Topside Installation</b>	17 October 2025	30 October 2025
<b>OSP Installation (Offshore hook up)</b>	31 October 2025	27 February 2026
<b>OSP Commissioning (Circuit 1)</b>	22 February 2026	15 March 2026
<b>OSP Commissioning (Circuit 2)</b>	19 March 2026	04 April 2026
<b>Inch Cape OWF (Licensable activities under S36 consent and OWF Marine Licence)</b>		
<b>Mobilisation of plant and delivery of materials to onshore laydown areas (where required)</b>	To match installation timings as set out below	
<b>Pre-Campaign Surveys and Subtidal Seabed Preparation (subject to separate marine licences)</b>	August 2024	31 May 2025
<b>UXO Clearance (subject to separate marine licence)</b>	01 October 2024	30 May 2025
<b><u>WTG Foundations</u></b>		
<b>Foundation Monopile Installation (54)</b>	01 March 2026	18 June 2026
<b>Scour Protection Installation</b>	01 April 2026	18 July 2026
<b>Foundation Transition Piece (TP) Installation (54)</b>	01 June 2026	02 October 2026



<b>KEY MILESTONE</b>	<b>ANTICIPATED START</b>	<b>ANTICIPATED FINISH</b>
<b>Foundations Jacket Pin Pile Installation - (54)</b>	01 May 2026	19 May 2026
<b>Foundations Jacket Installation - (18)</b>	11 June 2026	21 July 2026
<b><u>WTG</u></b>		
<b>Wind Turbine Generator (WTG) Installation</b>	03 November 2026	15 July 2027
<b>WTG Commissioning</b>	05 November 2026	06 August 2027
<b><u>Inter-Array Cable (IAC)</u></b>		
<b>PLGR</b>	16 May 2026	14 July 2026
<b>IAC Cable Lay</b>	29 July 2026	20 October 2026
<b>IAC Cable Bury</b>	21 August 2026	13 December 2026
<b>IAC Cable Termination and Testing</b>	24 September 2026	27 December 2026
<b>IAC Rock Installation</b>	09 September 2026	26 November 2026

## 5 Offshore Wind Farm Construction Programme

### 5.1 Introduction

The Inch Cape OWF Project Construction Programme is set out in Section 5.2 to Section 5.7 setting out the principles of the construction programme covering the installation of 72 WTGs of both monopile (54 no.) and pin pile jacket (18 no.) foundations and the corresponding inter array cables.

### 5.2 Commencement of the Offshore Wind Farm Construction Programme

The S36 Consent defines the commencement of the Development as:

*“the date on which the first construction activity occurs in accordance with the EIA Report submitted by the Company on 15 August 2018.”*

Whilst the Generation Station Marine Licence defines the commencement of the Works as:

*“the date on which the first vessel arrives on the Site to begin carrying on any Licensed Activities in connection with the construction of the Works.”*

The commencement of the OWF works will begin with the WTG Foundation Installation works on 1 March 2026.

### 5.3 Pre-Campaign Surveys and Seabed Preparation

Several surveys and seabed preparation activities, including UXO removal will be required in advance of any works commencing offshore.

Pre-campaign surveys and seabed preparation activities will start in October 2024 and will last for several months. (These activities will be conducted under separate Marine Licences).

### 5.4 Mobilisation of Plant, Delivery of Materials and use of Onshore Laydown Areas

The key components of the OWFs are:

- WTG foundation substructures (i.e., jacket (including pin-piles), monopiles and transition pieces);
- Inter-array cabling;
- Wind turbine generators;

Delivery of the main components (as set out above) will be to marshalling ports for storage until they are required, or direct to site. Details of this process are set out in the following sections, with a high level overview as follows:



- Inter-Array Cable (IAC) cable will be transported to Blyth where cables will be stored onshore. At Blyth, the cables will be loaded from onshore storage to the Cable Lay Vessel, where three load-outs will be required.
- WTGs will be delivered to the designated port, e.g., Port of Dundee and mobilised to the Inch Cape site for installation using a Jack-Up Vessel (JUV).
- The foundation components (jacket pin-piles and monopiles), will include pre-assembly and laydown of components prior to loadout from Prince Charles Wharf, Leith.
- Jackets, pin piles, monopiles and transition pieces will transit to the UK and be delivered to the Port of Leith.

Note that the delivery Ports are subject to change and are correct at the time of writing.

The following section details the proposed mobilisation of plant, delivery of materials, and timings and sequencing of construction work for all elements of the OWFs.

## **5.5 Timing and Sequencing of Construction Work in the Development Area**

### **5.5.1 WTG Jacket and Pin pile Substructures Manufacture, Supply and Installation**

#### **5.5.1.1 Jacket Foundations**

The fabrication of the 18 jacket foundations (with integrated transition piece) is expected to commence in September 2024 (expected completion end of June 2026). The jacket foundations will be delivered to the Port of Leith where they will be mobilised to site when required.

#### **5.5.1.2 Jacket Pin-Piles**

The fabrication of the 54 pin piles is expected to commence in January 2025 (expected completion October 2025).

The pin-piles will be delivered to the Port of Leith from China, transported in two batches between October 2025 and June 2026.

The pin-piles will be stored at the Port of Leith until required when they will be loaded onto the vessel and transported to site.

The jacket foundations will be installed between May 2026 and July 2026 in line with the methods presented in the CMS (IC02-INT-EC-OFC-004-INC-PLA-001).

### **5.5.2 WTG Monopile Substructures Manufacture, Supply and Installation**

The expected commencement of monopile fabrication (54 no.) is December 2024 (expected completion December 2025).

Shipping of the monopiles to the marshalling yard in Leith will commence in July 2025 (expected completion December 2025).

The monopiles will be installed between March 2026 and June 2026 in line with the methods presented in the CMS (IC02-INT-EC-OFC-004-INC-PLA-001). The piling will be conducted in line with the Piling Strategy (PS) (Generating Station - IC02-INT-EC-OFC-005-INC-STR-002).

### **5.5.3 Inter-array Cables Manufacture, Supply and Installation**

The delivery of the IAC will be phased to match the installation requirements and therefore will be delivered to site for cable lay (and bury operations) over the period July 2026 to November 2026. The cables will be transported from the manufacturing facility in China, to the Port of Blyth from where they will be loaded onto the Cable Lay Vessel (CLV) for transport and installation on site.

Prior to installation of the inter-array cables, a pre-lay grapnel run (PLGR) will be undertaken to clear the cable route of any remaining obstructions. This is anticipated to take place between May 2026 and July 2026.

The installation of the inter-array cables (lay and bury) is scheduled to take place between July 2026 and December 2026.

The inter-array cables will be installed in line with the methods presented in the CMS (IC02-INT-EC-OFC-004-INC-PLA-001) and the IAC CaP (IC02-INT-EC-OFC-012-INC-PLA-001).

### **5.5.4 WTG Manufacture, Supply and Installation**

The delivery of WTG components from the manufacturing facilities to the marshalling and pre-assembly area at the Port of Dundee will take place from December 2024 until March 2027.

Onshore pre-assembly and pre-commissioning of WTGs will take place between August 2026 and June 2027.

The WTGs will be installed and commissioned between November 2026 and July 2027 in line with the methods presented in the CMS (IC02-INT-EC-OFC-004-INC-PLA-001).

## **5.6 Contingency Planning**

Given the nature and scale of the construction project, the potential exists for unforeseen delays, including from periods of unsuitable weather and equipment failure which are beyond ICOL's control.

ICOL has undertaken weather analysis and assessed programme risks; and the construction programme has been designed with contingencies included. The programme includes, on average, a 30 % contingency allowance.



## **5.7 Final Commissioning of Wind Farm**

Annex 3 of the S36 Consent defines the Final Commissioning stage of ICOL site as:

*“means the date on which the last wind turbine generator constructed forming the Development has supplied electricity on a commercial basis to the National Grid, or such earlier date as the Scottish Ministers deem the Development to be complete.”*

The anticipated date of Final Commissioning of the ICOL Project is proposed as 6 August 2027, when the site will undergo handover to the Operations Team.

## 6 Offshore Transmission Infrastructure Construction Programme

### 6.1 Introduction

The ICOL construction programme for the Offshore Transmission Infrastructure is set out in Section 6.2 to Section 6.6 setting out the principles of the construction programme covering the installation of an Offshore Transmission Platform (OSP) and two Export Cables.

### 6.2 Commencement of Offshore Transmission Infrastructure Works

The Commencement of the works as defined by the OfTI Marine Licence is:

*“The date on which the first vessel arrives on the Site to begin carrying on the Licensed Activities in connection with the construction of the Works.”*

The first licensable works at landfall (nearshore civil works and cable protection installation preparatory activities) are expected to commence in April 2025.

### 6.3 Mobilisation of Plant, Delivery of Materials and use of Onshore Laydown Areas

The key components of the offshore OfTI are:

- Two subtidal export cables; and
- One OSP.

The arrival of the plant required to install the offshore OfTI components will be timed to coincide with the timing of installation activities, as set out in Table 4.1.

All elements of the OfTI will be delivered to temporary onshore storage ports or will be taken direct to site:

- The OSP jacket pin-piles, will be loaded onto the installation vessel at a port in northern Europe yet to be confirmed.
- The Export Cables will be transported to temporary onshore storage, close to site e.g. Blyth, in advance of being loaded out onto the CLV.
- The OSP jacket will transit from Wallsend, UK direct to the site for installation

The following section details the proposed mobilisation of plant, delivery of materials, and timings and sequencing of construction work for all elements of the OfTI.

Note that the delivery ports are subject to change and are correct at the time of writing.



Further details of installation methods can be found in the Inch Cape CMS (ICO2-INT-EC-OFC-004-INC-MTH-001).

## **6.4 Timing and Sequencing of Construction Work**

### **6.4.1 Export Cable Manufacture, Supply and Installation**

The delivery of EC will be phased to match the installation requirements and therefore will be delivered to site for cable lay (and bury) of the two ECs, over the period July 2025 to May 2026.

The cables will be transported from China to temporary storage at Blyth in advance of being loaded onto the CLV to transport the cables to the project site.

Prior to installation, a PLGR will be undertaken to clear the route of any remaining obstructions. This is anticipated to take place between June – August 2025 for EC1 and April – June 2026 for EC2.

The export cables (starting with EC1) will be installed between July 2025 and November 2025 and May 2026 and August 2026 for EC2. The installation will be conducted in line with the methods presented in the CMS (IC02-INT-EC-OFC-004-INC-PLA-001) and the EC-CaP (IC02-INT-EC-OFC-012-INC-PLA-002).

### **6.4.2 OSP Jacket Foundation Substructure Manufacture, Supply and Installation**

Fabrication of OSP jacket foundation substructures (including piles) commenced in January 2024 with expected completion in June 2025. These substructures will be delivered directly to site by the installation vessel to commence installation between July 2025 and October 2025.

The OSP jacket foundation substructure will be assembled and installed in line with the methods presented in the CMS (IC02-INT-EC-OFC-004-INC-PLA-001) and the Piling Strategy – OfTI (ICO2-INT-EC-OFC-005-INC-STR-001).

### **6.4.3 OSP Topside Manufacture, Supply and Installation**

Fabrication of the OSP topsides commenced in January 2024 and is expected to be completed in June 2025. The topside will be manufactured in Newcastle and will be transported direct to the Inch Cape OWF Project site by the installation vessel. The topsides installation and hook up will take place between October 2025 and February 2026. The installation will be conducted in line with the methods presented in the CMS (ICO2-INT-EC-OFC-004-INC-MTH-001).

## **6.5 Contingency Planning**

Given the nature and scale of the construction project, the potential exists for unforeseen delays, including from periods of unsuitable weather and equipment failure which are out with ICOL control.

ICOL has undertaken weather analysis and assessed programme risks; the construction programme



has been designed with contingencies included. The programme includes, on average, a 30% contingency allowance.

## **6.6 Final Commissioning of the Offshore Transmission Infrastructure**

The OfTI Marine Licence (Section 1.1(n)) defines the Final Commissioning of the Works as:

*“The date on which the last offshore substation platform constructed forming the Works has transformed electricity to be supplied on a commercial basis to the National Grid, or such earlier date as the Licensing Authority deems the Works to be complete.”*

The proposed date for the Final Commissioning of the Works (the date that electricity from all WTGs will be exported via the OfTI to the grid on a commercial basis) is proposed as August 2027.