



MORAY WEST WEEKLY NOTICE OF OPERATIONS	Issue Date	20/11/2023
	Ref: WNoO 0042	Rev: 00

Work Planned for the Period 20th November to 26th November 2023

Construction work for Moray West Offshore Wind Farm commenced on the 6th February 2023.

The key aim of the Weekly Notice of Operations is to give a global view of activities and vessels involved. Questions regarding the operations will be welcome preferably well in advance of each construction activity.

Moray West is developing the Moray West Offshore Wind Farm in the Moray Firth. The Moray West Site covers an area of approximately 225 km² on the Smith Bank in the Outer Moray Firth approximately 22 km from the Caithness coastline. The development will consist of 60 offshore wind turbines (WTGs) (with a total capacity of approximately 882 MW) and two Offshore Substation Platforms (OSPs) with associated subsea WTG inter-array cables and an OSP interconnector cable. The generated power will be transmitted to the grid via two subsea export cable circuits that will come ashore at Sandend Bay, which is located on the Aberdeenshire coast at Broad Craig near Sandend Bay, approximately 65 km south of the Moray West Site. There are two underground cable circuits currently under construction from the landfall at Broad Craig to Whitehillock near Keith in Moray where the Moray West onshore substation is under construction. There are also further underground cables being installed between Whitehillock substation and the existing Scottish Hydro Electric Transmission Blackhillock substation. The Moray West offshore development boundary is shown in black on Figure 1 below. Details of location of work activities within this area will be provided as work progresses.

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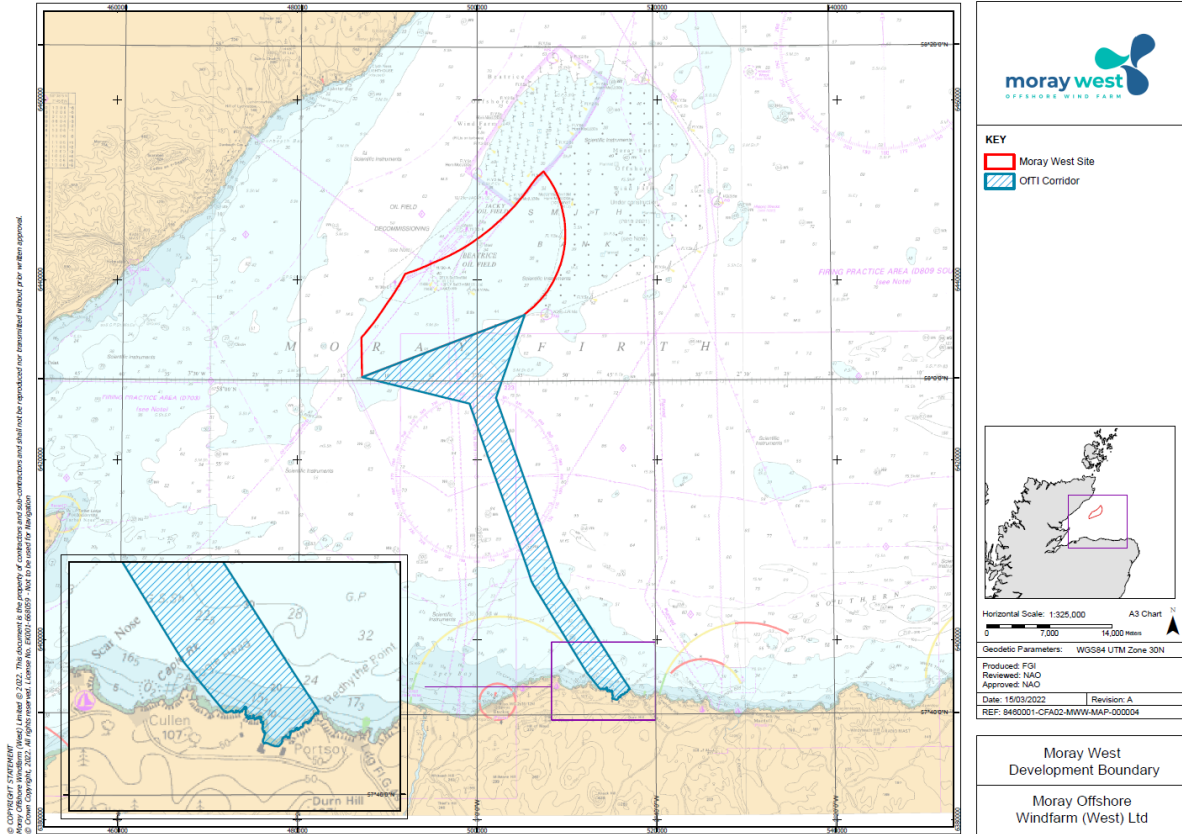


Figure 1 - Moray West Offshore Development Boundary

It is currently anticipated that weather permitting offshore construction works will be carried out year-round and on a continuous basis (i.e., 24 hours working, seven days a week) unless notified otherwise.

Moray West Marine Coordination Centre in Fraserburgh is manned 24 hours, 7 days per week.

The current construction works are as follows:

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1. Contact Details for Marine Coordination

The following contact can provide more information if required. Please note that specific queries can also be addressed to the relevant vessel or shore-based representative.

Duty MC (24/7)	+44 (0) 7774663504
Emergency Contact (24/7)	+44 (0) 8001488832
Marine Coordinator Email	MCC@moraywest.com
Address	Shore Street, Fraserburgh, AB43 9BR

Table 1: Contact details Marine Coordination

2. Ongoing Works

2.1 Monopile Installation Activities

Scope of works involves installation of Monopiles. This week's activity involves completion of monopiles P13 (Hammer), L14 (Hammer) and G07 (Vibro). The vessel is at anchorage standing by waiting for weather window hopefully approximately Tuesday 21/11/23. Installation locations per attached sketch:

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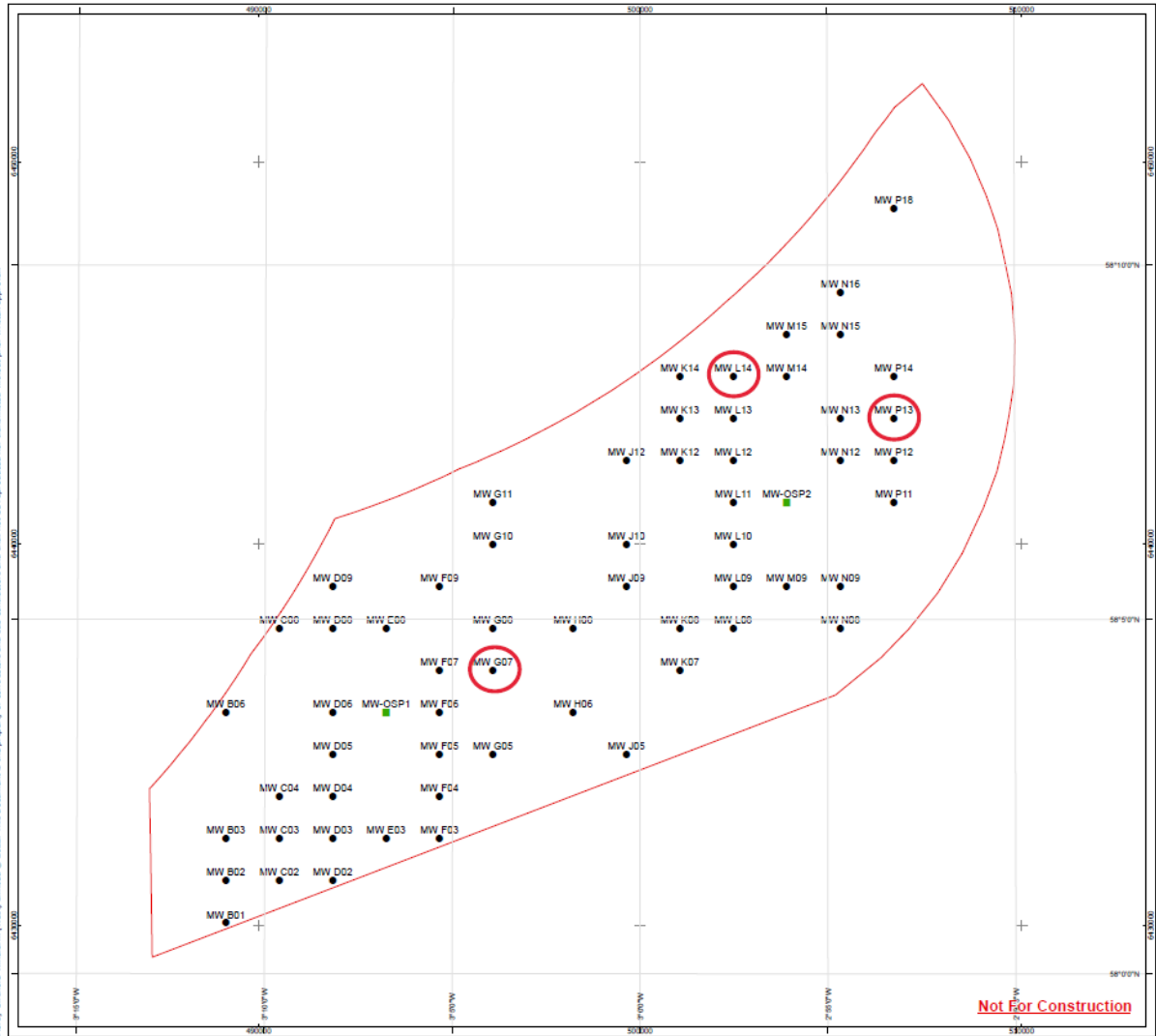



Figure 2 – Monopile Installation w/c 20/11/23

Monopiles will be installed through pre-installed scour pads and driven to depth using impact hammer. Following successful installation of Monopiles, a temporary navigation light structure will be installed on the top of each monopile. Vessel being utilised is Bokalift 2 details as follows:

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Boskalis Bokalift 2 	Heavy Lift Vessel Monopile Installation TP Installation J tube cage Installation OSP Topsides installation	Boskalis	Call Sign: 5BMC5 Captain Office: +31 78808 0347 Bridge: +31 78808 0325 Mobile: +881 677 116 872 Fleet Manager: T +31 78 69 69 169 M +31 62 21 42 310 E-mail: bokalift2-bridge@boskalis.com bokalift2-captain@boskalis.com

Installation Status: Green – Complete Light Blue – Ongoing Red – Not Installed			
Asset ID	Monopile Installed	TP Installed	WTG/Topside Installed
MW-B01	Red	Red	Red
MW-B02	Red	Red	Red
MW-B03	Red	Red	Red
MW-B06	Red	Red	Red
MW-C02	Red	Red	Red
MW-C03	Red	Red	Red
MW-C04	Red	Red	Red
MW-C08	Red	Red	Red
MW-D02	Red	Red	Red
MW-D03	Red	Red	Red
MW-D04	Red	Red	Red
MW-D05	Red	Red	Red
MW-D06	Red	Red	Red
MW-D08	Red	Red	Red
MW-D09	Red	Red	Red
MW-E03	Red	Red	Red
MW-E06 (OSP1)	Green	Red	Red
MW-E08	Red	Red	Red
MW-F03	Red	Red	Red
MW-F04	Red	Red	Red
MW-F05	Red	Red	Red

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MW-F06			
MW-F07			
MW-F09			
MW-G05			
MW-G07			
MW-G08			
MW-G10			
MW-G11			
MW-H06			
MW-H08			
MW-J05			
MW-J09			
MW-J10			
MW-J12			
MW-K07			
MW-K08			
MW-K12			
MW-K13			
MW-K14			
MW-L08			
MW-L09			
MW-L10			
MW-L11			
MW-L12			
MW-L13			
MW-L14			
MW-M09			
MW-M11 (OSP2)			
MW-M14			
MW-M15			
MW-N08			
MW-N09			
MW-N12			
MW-N13			
MW-N15			
MW-N16			
MW-P11			
MW-P12			
MW-P13			

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MW-P14			
MW-P18			

Table 3: Installation Status

2.2 OEC Installation works – Nexans Skagerrak & Nexans Aurora vessels

Nexans Skagerrak vessel completed cable pull in at landfall, offshore repair joint, cable lay and wet store last week. Trenching operations on OEC-1 and OEC-2 to commence this week.

Scope for Nexans Skagerrak vessel includes OEC-2 cable pull in at landfall, cable lay, repair joint, cable wet storage outside OSP2 exclusion zone and cable trenching works on OEC -2 and OEC-1. Duration for these works is expected to be approximately 3 months.

OEC-2 Wet Storage location			
Object	Easting (m)	Northing (m)	Depth (m)
OEC2 cable end	504065.49	6439851.58	39.6(LAT)

Table 4: OEC-2 wet storage location

Nexans Aurora vessel left site last week after all works were completed for OEC-1. Scope for Nexans Aurora vessel includes OEC-1 cable pull in at landfall, cable lay and cable wet storage outside OSP1 exclusion zone. Durations for these works is expected to be approximately 2 weeks (weather dependant). Nexans Aurora is expected to return to site to complete cable pull in into OSPs during December.

OEC-1 Wet Storage location			
Object	Easting (m)	Northing (m)	Depth (m)
OEC1 cable end	493509.4	643436.3	46.0(LAT)

Table 5: OEC-1 wet storage location

OEC - Cable installation activities recommended Exclusion Zone

***Note: these are provided as a reference, they do not fully define the complex shape of the proposed exclusion zone.**

The coordinates of the work site boundary are presented in the below table:

Windfarm site boundary Coordinates				
Site ID	UTM30(N) Easting (m)	UTM30(N) Northing (m)	WGS84 Latitude	WGS84 Longitude
1	515668	6393410	57° 40.960' N	2° 44.235' W

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2	516608	6394120	57° 41.339' N	2° 43.286' W
3	515577	6393950	57° 41.250' N	2° 44.324' W
4	516508	6394460	57° 41.524' N	2° 43.385' W
5	513708	6396550	57° 42.657' N	2° 46.197' W
6	514749	6397040	57° 42.916' N	2° 45.147' W
7	513398	6397550	57° 43.197' N	2° 46.505' W
8	514389	6398220	57° 43.556' N	2° 45.505' W
9	507318	6407200	57° 48.403' N	2° 52.612' W
10	508831	6407280	57° 48.448' N	2° 51.084' W
11	506281	6411070	57° 50.491' N	2° 53.652' W
12	507304	6412020	57° 51.002' N	2° 52.616' W
13	504602	6412190	57° 51.097' N	2° 55.348' W
14	505635	6413170	57° 51.620' N	2° 54.302' W
15	501742	6421330	57° 56.023' N	2° 58.236' W
16	503027	6421600	57° 56.167' N	2° 56.933' W
17	500291	6425260	57° 58.142' N	2° 59.704' W
18	501026	6426100	57° 58.592' N	2° 58.959' W
19	502008	6426290	57° 58.695' N	2° 57.963' W
20	498120	6427350	57° 59.266' N	3° 01.908' W
21	498509	6428270	57° 59.765' N	3° 01.513' W
22	496426	6427460	57° 59.323' N	3° 03.626' W
23	496879	6428360	57° 59.809' N	3° 03.168' W
24	493163	6433130	58° 02.379' N	3° 06.948' W
25	494102	6433470	58° 02.564' N	3° 05.994' W
26	501048	6433140	58° 02.387' N	2° 58.935' W
27	502019	6432900	58° 02.257' N	2° 57.948' W
28	492944	6435870	58° 03.853' N	3° 07.175' W
29	493774	6435810	58° 03.824' N	3° 06.331' W
30	503507	6438800	58° 05.437' N	2° 56.431' W
31	504499	6438660	58° 05.363' N	2° 55.422' W
32	503378	6441240	58° 06.751' N	2° 56.560' W
33	504289	6441290	58° 06.779' N	2° 55.632' W

Table 6: OEC corridor boundaries for cable installation works

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Vessel Name	CLV Nexans Skagerrak
MMSI Number	7619458 / 257253000
Operating Company	Nexans Norway / OSM Offshore
Vessel Call Sign	LCEK3
Vessel Phone Number	+47 23674602
Vessel Email Address	master@nexans-skagerrak.osm.no

Table 7: Nexans Skagerrak vessel info



Figure 3: Nexans Skagerrak vessel

Vessel Name	CLV Nexans Aurora
MMSI Number	9862059 / 257682000
Operating Company	Nexans Norway / OSM Offshore
Vessel Call Sign	LCEK8
Vessel Phone Number	+47 23 411 094
Vessel Email Address	master@nexans-aurora.osm.no

Table 8: Nexans Aurora vessel info

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Figure 4: Nexans Aurora vessel

3 Completed Works

3.1 – All Marine HDD works on HDD1, and HDD2 completed 22/03/2023

Leaving behind Inshore Marker buoy in position

Latitude: 57 41.2922N, Longitude: 002 43.8006W



And a Weather Data Buoy in position

Latitude : 57 41.2922N, Longitude: 002 43.8006W

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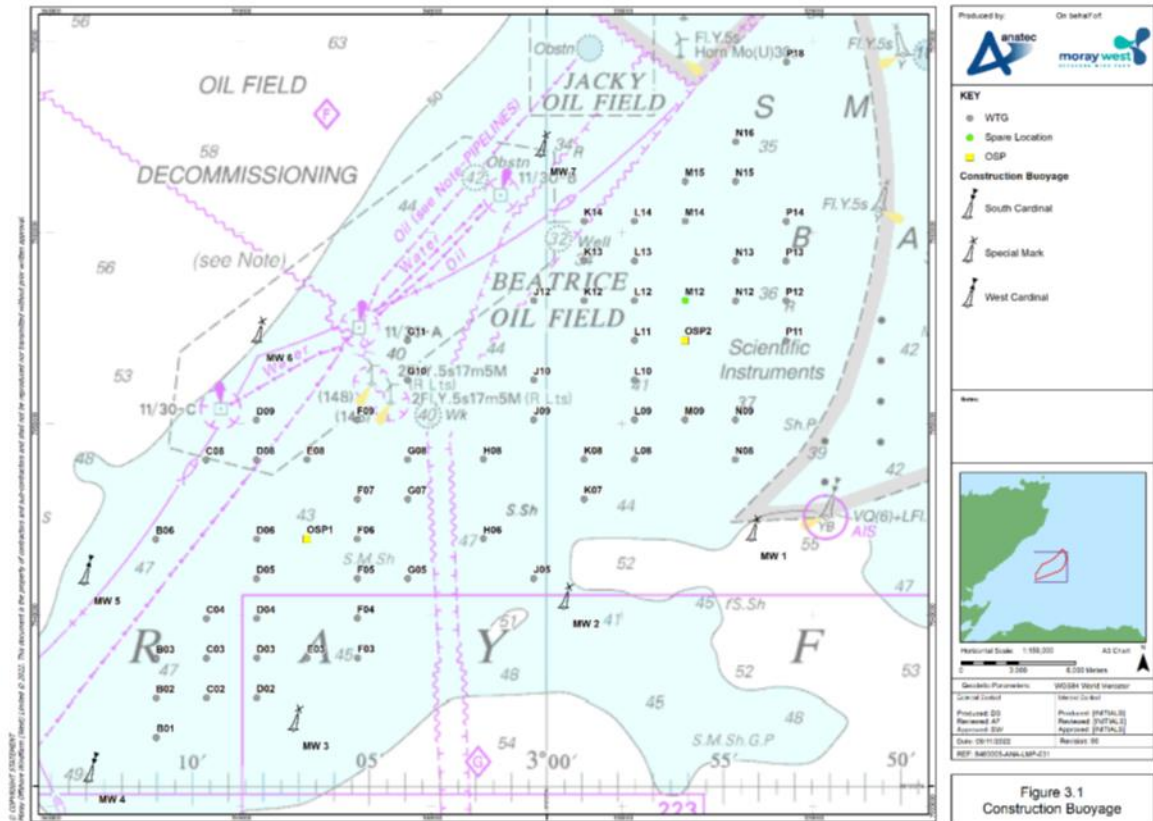
3.2 Moray West Construction Markers

Moray West has completed the deployment of seven construction buoys around the Moray West site. The marker buoys will remain in place until after construction of the Moray West Wind Farm is complete. The co-ordinates for the as-built marker buoys are provided in the table below.

Table 9 – Marker Buoy Locations

Buoy	ID	Location	Light and Top Mark Specification
Special Mark	MW1	58° 03.681' N 002° 54.231' W	<ul style="list-style-type: none"> • Pillar shaped with a yellow 'x' shaped topmark • Fl Y 5s light character
Special Mark	MW2	58° 02.667' N 002° 59.024' W	<ul style="list-style-type: none"> • Pillar shaped with a yellow 'x' shaped topmark • Fl Y 5s light character
Special Mark	MW3	58° 00.841' N 003° 07.174' W	<ul style="list-style-type: none"> • Pillar shaped with a yellow 'x' shaped topmark • Fl Y 5s light character
South Cardinal	MW4	58° 00.071' N 003° 12.941' W	<ul style="list-style-type: none"> • Pillar shaped with a south cardinal shaped topmark • V Quick (Q) (6) + L Fl 10s W light character.
West Cardinal	MW5	58° 03.029' N 003° 13.071' W	<ul style="list-style-type: none"> • Pillar shaped with a west cardinal shaped topmark • V Quick (9) 10s W light
Special Mark	MW6	58° 06.643' N 003° 08.196' W	<ul style="list-style-type: none"> • Pillar shaped with a yellow 'x' shaped topmark • Fl Y 5s light character
Special Mark	MW7	58° 09.495' N 003° 00.377' W	<ul style="list-style-type: none"> • Pillar shaped with a yellow 'x' shaped topmark • Fl Y 5s light character

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Layout of demarcation Buoyage (Figure 5)

3.3 OEC PLGR completed by Nexans Skagerrak 20/07/2023.

3.4 Scour protection Completed on all 62 locations by Rockpiper 03/08/2023.

3.5 PAM deployment completed by MV Waterfall 25/08/2023 (see table 1 below)

3.6 UXO Disposal works completed by Glomar Wave 01/09/2023.

3.7 Boulder relocation works completed by Olympic Electra and Glomar Wave 04/09/2023

3.8 IAC PLGR and Pre-lay Survey Operations completed by Seaway Aimery 10/10/2023

3.9 Offshore export cables laid and wet stored OEC-1 and OEC-2 Nexans Skagerrak and Aurora 19/11/2023.

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Table 1 Deployed moorings PAM ref 3.5

Name	Coordinates (WGS84 datum)		Characteristics	Windfarm site
372	58° 02.506' N	3° 11.040' W	Subsurface	Moray West
373	58° 03.100' N	3° 09.614' W	Subsurface	Moray West
374	58° 02.400' N	3° 07.170' W	Subsurface	Moray West
375	58° 04.590' N	3° 06.060' W	Subsurface	Moray West
376	58° 05.190' N	3° 04.620' W	Subsurface	Moray West
377	58° 03.696' N	3° 03.921' W	Subsurface	Moray West
378	58° 06.000' N	3° 03.360' W	Subsurface	Moray West
379	58° 05.476' N	3° 01.788' W	Subsurface	Moray West
380	58° 06.068' N	3° 01.788' W	Subsurface	Moray West
381	58° 06.661' N	3° 00.364' W	Subsurface	Moray West
382	58° 06.661' N	2° 58.938' W	Subsurface	Moray West
383	58° 05.476' N	2° 58.939' W	Subsurface	Moray West
384	58° 07.428' N	2° 58.230' W	Subsurface	Moray West
385	58° 09.042' N	2° 57.252' W	Subsurface	Moray West
386	58° 07.254' N	2° 56.084' W	Subsurface	Moray West
387	58° 07.847' N	2° 56.084' W	Subsurface	Moray West
388	58° 10.216' N	2° 56.083' W	Subsurface	Moray West
389	58° 09.474' N	2° 55.716' W	Subsurface	Moray West
390	58° 08.502' N	2° 54.960' W	Subsurface	Moray West
391	58° 07.980' N	2° 53.802' W	Subsurface	Moray West
392	58° 09.786' N	2° 53.418' W	Subsurface	Moray West

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Name	Coordinates (WGS84 datum)		Characteristics	Windfarm site
393	58° 10.218' N	2° 51.888' W	Subsurface	Moray West
49	58° 04.560' N	3° 01.140' W	Subsurface	Moray West
50	58° 06.360' N	2° 57.090' W	Subsurface	Moray West
52	58° 11.100' N	2° 51.300' W	Subsurface	Moray West
159	58° 09.357' N	2° 52.500' W	Subsurface	Moray West
280	58° 01.104' N	3° 09.270' W	Subsurface	Moray West
371	58° 01.920' N	3° 12.540' W	Subsurface	Moray West

4. Upcoming works

1. Diving works landfall – C-Odyssey – Post OEC Installation (Site 5) – 24th November 2023
2. IAC cable installation – March 2024
3. Wind Turbine Generator (WTG) Transition Piece Installation -December 2023- June 2024
4. WTG Installation – April 2024- October 2024

5. Guard Vessels

Kinnaird Marine Limited has been appointed by Moray West to provide guard vessels during the Construction campaign. Apart from times of extreme weather, there will always be at least one guard vessel on station during piling operations. The guard vessel's primary duty is security of the construction site by informing and warning non-construction vessels of the ongoing activities and associated Safety Zones. Mariners are requested to navigate with caution and keep continued watch on VHF Ch. 16, 87 and 73 when navigating the area.

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5.1 Guard Vessel–Replenish

GV Replenish



TYPE	Guard Vessel	OPERATOR	Kinnaird Marine Services
IMO	8119182	LOA	24.45m
MMSI NUMBER	235005180	BEAM	7.17m
CALLSIGN	MASY7	DRAUGHT	3.48m
FLAG	UK	DATE ON SITE	18/11/2023
CONTACT TEL	01346 518035	LICENCES	Marine licences

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Guard Vessel– Solstice

GV Solstice



TYPE	Guard Vessel	OPERATOR	Kinnaird Marine Services
IMO	8953033	LOA	21mtr
MMSI NUMBER	233486000	BEAM	6 mtr
CALLSIGN	MPFN7	DRAUGHT	3.6 mtr
FLAG	UK	DATE ON SITE	6/11/2023
CONTACT TEL	01346 518035	LICENCES	Windfarm, OFTI & OSP Marine Licences

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Guard Vessel– Ability

Guard Vessel Ability



TYPE	Guard Vessel	OPERATOR	Kinnaird Marine Services
IMO	8644785	LOA	23.14m
MMSI NUMBER	235014666	BEAM	6.63m
CALLSIGN	MDFW3	DRAUGHT	3.2m
FLAG	UK	DATE ON SITE	17/09/2023
CONTACT TEL	01346 518035	LICENCES	Wind Farm, Marine licences

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Guard Vessel– Bountiful

Guard Vessel Bountiful



TYPE	Guard Vessel	OPERATOR	Kinnaird Marine Services
IMO	8699871	LOA	22m
MMSI NUMBER	232004846	BEAM	7m
CALLSIGN	MJLF4	DRAUGHT	3.6m
FLAG	UK	DATE ON SITE	14/10/2023
CONTACT TEL	01346 518035	LICENCES	Wind Farm, Marine licences

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Guard Vessel– Resolution

Guard Vessel Resolution



TYPE	Guard Vessel	OPERATOR	Kinnaird Marine Services
IMO		LOA	18.2m
MMSI NUMBER	23502260	BEAM	6.6m
CALLSIGN	MBCZ5	DRAUGHT	3.7m
FLAG	UK	DATE ON SITE	17/09/2023
CONTACT TEL	01346 518035	LICENCES	Wind Farm, Marine licences

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Guard Vessel– Heather Sprig

Guard Vessel Heather Sprig



TYPE	Guard Vessel	OPERATOR	Kinnaird Marine Services
IMO	8963789	LOA	18.6m
MMSI NUMBER	234091000	BEAM	6.86m
CALLSIGN	MKPJ4	DRAUGHT	2.81m
FLAG	UK	DATE ON SITE	17/09/2023
CONTACT TEL	01346 518035	LICENCES	Wind Farm, Marine licences

6. General Safety Advice

Please be aware that by virtue of their mode of operation and the equipment deployed, some construction vessels will be Restricted in their Ability to Manoeuvre (RAM) as defined under COLREGs (International Regulations for Preventing Collisions at Sea 1972, Rule 3). Masters of vessels are therefore requested to maintain their vessels and gears at a minimum safe distance from these vessels

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of 500 metres when it is undertaking its work and showing the appropriate shapes and lights in accordance with COLREGs Rule 27.

In order to not compromise the safety of the project vessels and their crew, and each vessel's ability to undertake its contracted works, fishermen who have static fishing gears deployed within the defined Moray West site (see Figure 1) are requested to provide the coordinates of such deployed gears in DMS and details of whether the surface markers used are visible at all states of visibility to Alex Winrow-Griffin (Brown & May Marine) using the contact information in the Fisheries Liaison section below (Section 58 of the Merchant Shipping Act 1995).

Fishermen who have static gears deployed beyond 12 nm are reminded that static gear must be marked in accordance with Commission Implementing Regulation (EU) No. 404/2011 (<https://www.gov.uk/guidance/markings-of-fishing-gear-retrieval-and-notification-of-lost-gear#markings-of-fishing-gear>). Static gears deployed within 12 nm should be marked in accordance with The Marking of Creels (Scotland) Order 2020 (<https://www.legislation.gov.uk/ssi/2020/168/made/data.pdf>).

All mariners are requested to give all construction and support vessels a safe passing distance and contact the vessel on VHF CH16 to ascertain what distance is required dependant on their ongoing operation.

Mariners are requested to navigate with caution, to use all means appropriate to aid safe navigation as defined under COLREGs Rule 27, and keep continued watch on VHF Ch. 16, 87 and 73 when navigating the area.

Fisheries Liaison

Fisheries liaison associated with the activity will be co-ordinated by Brown and May Marine (Moray West Company Fisheries Liaison Officer). For any non-urgent commercial fishery queries please contact Brown and May Marine or Moray West's Commercial Fisheries Manager. Note that they are only available during standard office hours and may not be able to provide immediate responses. For queries requiring an immediate response please contact either the Moray West Marine Coordinator or an Offshore Fisheries Liaison Officer:

- **Moray West Company Fisheries Liaison Officer (CFLO)**
Alex Winrow-Giffin - Brown and May Marine Ltd.
Email: alex@brownmay.com
Tel: +44 1379 872148 / + 44 7760 160039
- **Moray West Commercial Fisheries Manager**
Iain McMyn



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Email: iain.mcmyn@oceanwinds.com

<mailto:> Tel: +44 7780 191088

- **Offshore Fisheries Liaison Officer**

Currently deployed onboard Glomar Wave –

Contact is through MW Offshore Client Rep: clientmoraywest@gmail.com

Currently deployed onboard

Contact is through MW Offshore Client Rep:

Distribution List

The distribution of this notice is as per email recipient's header. A central list of recipients is maintained by the Marine Coordinator; if you are not the appropriate recipient of these notices, or do not wish to receive the notices in the future, please contact us at the address included in Section 1 of this notice.

Website

The official website of Moray Offshore Windfarm (West) Limited can be found at:

<https://www.moraywest.com/current-works/offshore-works>

This website will contain all Notices to Mariners (NtMs) published by Moray West during the construction phase of the project, Weekly Notices of Operations and general information about the project.