

## NOTICE TO MARINERS

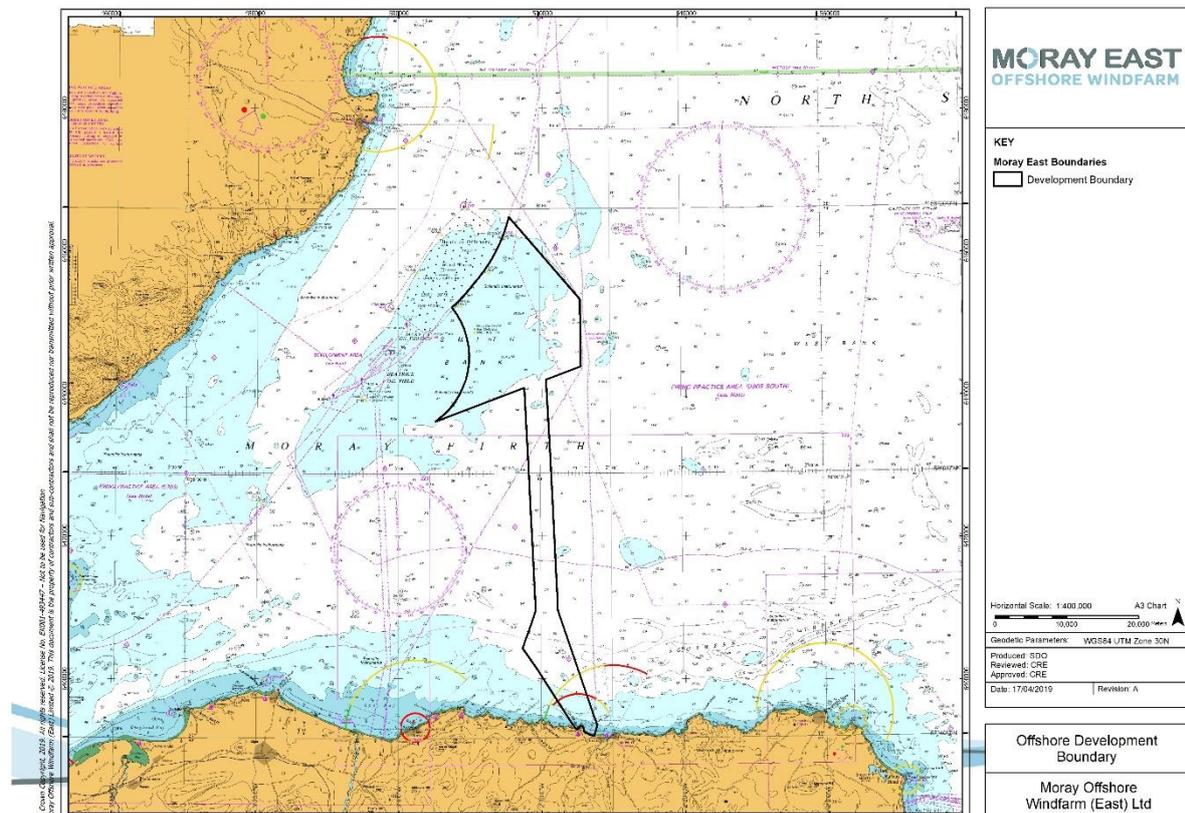
### 1. Commencement of Construction

Please be advised that Moray Offshore Windfarm (East) Limited (Moray East) will commence construction work for Moray East Offshore Wind Farm from the 1st May 2019 with the start of piling operations on the wind farm site as described further below.

A weekly Notice of Operations will be issued every Monday morning during construction. The key aim will be 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 East is developing the Moray East Offshore Wind Farm in the Outer Moray Firth on the southeastern area of the Smith Bank located to the north of the Aberdeenshire and Moray coast. The development will consist of 100 offshore wind turbines (WTGs) (with a total capacity of approximately 950 MW) and three Offshore Substation Platforms (OSPs). Water depths in the Moray East site range from approximately 38 m below LAT to 54 m below LAT. The generated power will be transmitted to the grid via three subsea export cable circuits to the landfall location at Inverboynie bay on the Aberdeenshire coast. The onshore export continue underground to the Moray East substation currently under construction near New Deer. The Moray East 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.

**Figure 1: Moray East 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 hour working, seven days a week) unless notified otherwise. The Moray East Construction Programme and Construction Method Statement details the full construction schedule associated with the Development and provides further information on the key construction periods relevant to the vessels as detailed below.

**2. Vessels associated with planned works**

**Pin Pile installation Vessel:**

<b>MV Apollo</b>	
<b>General Description and Dimensions:</b>	Jackup DP"2 construction Vessel
<b>Call Sign:</b>	LXBP
<b>MMSI:</b>	253586000
<b>On Board Contact:</b>	TBN
<b>Offshore Manager / Party Chief:</b>	TBN
<b>E-mail:</b>	TBN
<b>Onshore Representative:</b>	Enrique Alvarez



**Pin Pile Support Vessel:**

MV Normand Service	
General Description and Dimensions:	Offshore Supply vessel
Call Sign:	LAFR8
MMSI:	257062690
On Board Contact:	TBN
Offshore Manager / Party Chief:	TBN
E-mail:	TBN
Onshore Representative:	TBN



**Guard Vessel: Replenish:**

GV Replenish	
General Description and Dimensions:	Guard Vessel
Call Sign:	MASY7
MMSI:	235055180
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	gvreplenish@gmail.com
Onshore Representative:	Enrique Alvarez



**Relief Guard Vessel: Ability:**

GV Ability	
General Description and Dimensions:	Guard Vessel
Call Sign:	MDFW3
MMSI:	235014666
On Board Contact:	Master
Offshore Manager / Party Chief:	N/A
E-mail:	TBC
Onshore Representative:	Enrique Alvarez



### 3. Piling location

The location of piling operations is shown in the Table 1 and Figure 2 below. The sequencing of piling will be provided in future notices.

**Table 1 – WTG locations**

<b>Turbine ID</b>	<b>Latitude (DD MM.mmm)</b>	<b>Longitude (DD MM.mmm)</b>
ME-A01	58° 4.550' N	2° 52.147' W
ME-A02	58° 5.158' N	2° 52.144' W
ME-B02	58° 5.147' N	2° 50.570' W
ME-B03	58° 5.755' N	2° 50.567' W
ME-B04	58° 6.364' N	2° 50.564' W
ME-B05-OFF	58° 6.967' N	2° 50.544' W
ME-B13	58° 11.838' N	2° 50.540' W
ME-B14	58° 12.446' N	2° 50.538' W
ME-C05	58° 6.961' N	2° 48.986' W
ME-C07	58° 8.177' N	2° 48.980' W
ME-C08	58° 8.785' N	2° 48.977' W
ME-C09	58° 9.394' N	2° 48.973' W
ME-C10	58° 10.002' N	2° 48.970' W
ME-C11	58° 10.610' N	2° 48.967' W
ME-C12	58° 11.218' N	2° 48.964' W
ME-C13	58° 11.826' N	2° 48.961' W
ME-C14	58° 12.435' N	2° 48.958' W
ME-C15	58° 13.043' N	2° 48.955' W
ME-C16	58° 13.651' N	2° 48.951' W
ME-D04	58° 6.341' N	2° 47.414' W
ME-D05	58° 6.949' N	2° 47.410' W
ME-D07	58° 8.166' N	2° 47.403' W
ME-D08	58° 8.774' N	2° 47.399' W
ME-D09	58° 9.382' N	2° 47.396' W
ME-D10	58° 9.990' N	2° 47.392' W
ME-D11	58° 10.598' N	2° 47.389' W
ME-D12	58° 11.207' N	2° 47.385' W
ME-D13	58° 11.815' N	2° 47.381' W
ME-D14	58° 12.423' N	2° 47.378' W
ME-D15	58° 13.031' N	2° 47.374' W
ME-D16	58° 13.639' N	2° 47.371' W
ME-D17	58° 14.248' N	2° 47.367' W
ME-E04	58° 6.329' N	2° 45.838' W
ME-E05	58° 6.937' N	2° 45.834' W
ME-E19	58° 15.452' N	2° 45.778' W
ME-F04	58° 6.317' N	2° 44.263' W
ME-F21	58° 16.656' N	2° 44.187' W

# MORAY EAST

## OFFSHORE WINDFARM

Turbine ID	Latitude (DD MM.mmm)	Longitude (DD MM.mmm)
ME-G05	58° 6.913' N	2° 42.683' W
ME-G06	58° 7.521' N	2° 42.678' W
ME-G07	58° 8.129' N	2° 42.673' W
ME-G09	58° 9.345' N	2° 42.663' W
ME-G10	58° 9.954' N	2° 42.658' W
ME-G11	58° 10.562' N	2° 42.653' W
ME-G13	58° 11.778' N	2° 42.643' W
ME-G15	58° 12.995' N	2° 42.633' W
ME-G16	58° 13.603' N	2° 42.629' W
ME-G17	58° 14.211' N	2° 42.624' W
ME-G18	58° 14.819' N	2° 42.619' W
ME-G19	58° 15.428' N	2° 42.614' W
ME-G20	58° 16.036' N	2° 42.609' W
ME-G21	58° 16.644' N	2° 42.604' W
ME-G22	58° 17.252' N	2° 42.599' W
ME-H05	58° 6.900' N	2° 41.107' W
ME-H06	58° 7.508' N	2° 41.102' W
ME-H07	58° 8.116' N	2° 41.096' W
ME-H08	58° 8.724' N	2° 41.091' W
ME-H09	58° 9.333' N	2° 41.086' W
ME-H10	58° 9.941' N	2° 41.080' W
ME-H13	58° 11.765' N	2° 41.064' W
ME-H14	58° 12.374' N	2° 41.059' W
ME-H16	58° 13.590' N	2° 41.048' W
ME-H17	58° 14.198' N	2° 41.042' W
ME-H18	58° 14.806' N	2° 41.037' W
ME-H19	58° 15.415' N	2° 41.032' W
ME-H20	58° 16.023' N	2° 41.026' W
ME-H21	58° 16.631' N	2° 41.021' W
ME-H22	58° 17.239' N	2° 41.015' W
ME-I06	58° 7.495' N	2° 39.526' W
ME-I07	58° 8.103' N	2° 39.520' W
ME-I19	58° 15.401' N	2° 39.450' W
ME-I20	58° 16.010' N	2° 39.444' W
ME-J07	58° 8.090' N	2° 37.943' W
ME-J08	58° 8.698' N	2° 37.937' W
ME-J09	58° 9.306' N	2° 37.930' W
ME-J10	58° 9.914' N	2° 37.924' W
ME-J12	58° 11.131' N	2° 37.912' W
ME-J13	58° 11.739' N	2° 37.905' W
ME-J14	58° 12.347' N	2° 37.899' W
ME-J16	58° 13.563' N	2° 37.886' W
ME-J17	58° 14.172' N	2° 37.880' W
ME-J18	58° 14.780' N	2° 37.874' W

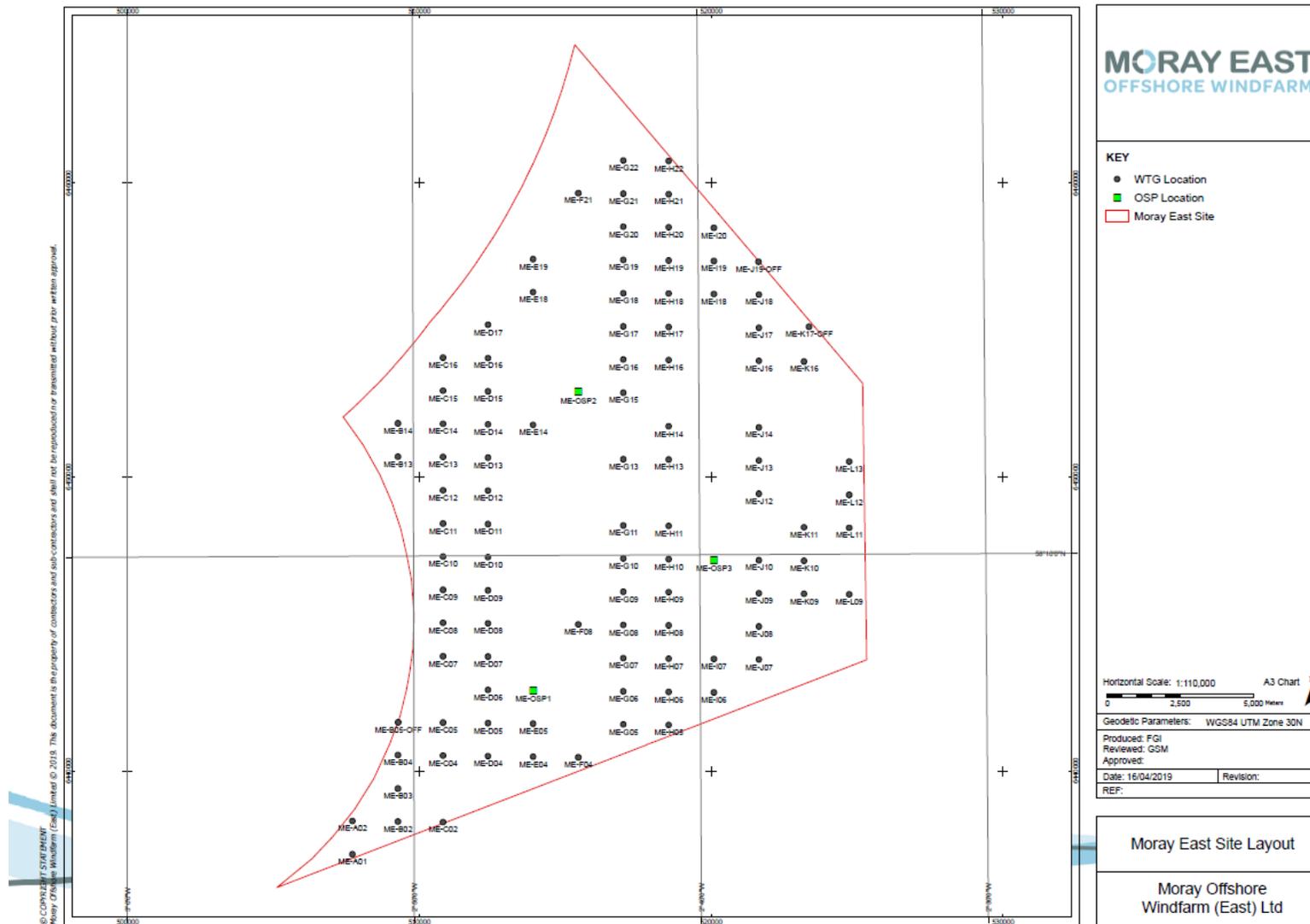
# MORAY EAST OFFSHORE WINDFARM

<b>Turbine ID</b>	<b>Latitude (DD MM.mmm)</b>	<b>Longitude (DD MM.mmm)</b>
ME-J19-OFF	58° 15.383' N	2° 37.887' W
ME-K09	58° 9.292' N	2° 36.353' W
ME-K10	58° 9.900' N	2° 36.346' W
ME-K11	58° 10.509' N	2° 36.339' W
ME-K16	58° 13.550' N	2° 36.306' W
ME-K17-OFF	58° 14.189' N	2° 36.133' W
ME-L09	58° 9.278' N	2° 34.775' W
ME-L11	58° 10.494' N	2° 34.761' W
ME-L12	58° 11.103' N	2° 34.754' W
ME-L13	58° 11.711' N	2° 34.747' W
ME-E18	58° 14.844' N	2° 45.782' W
ME-E14	58° 12.411' N	2° 45.798' W
ME-I18	58° 14.793' N	2° 39.455' W
ME-F08	58° 8.750' N	2° 44.245' W
ME-G08	58° 8.737' N	2° 42.668' W
ME-H11	58° 10.549' N	2° 41.075' W
ME-C04	58° 6.353' N	2° 48.989' W
ME-C02	58° 5.136' N	2° 48.995' W
ME-D06	58° 7.557' N	2° 47.407' W
ME-OSP1	58° 7.546' N	2° 45.830' W
ME-OSP2	58° 13.007' N	2° 44.214' W
ME-OSP3	58° 9.928' N	2° 39.502' W

Please be aware that by virtue of its mode of operation and the equipment deployed, the MV Apollo and the MV Normand Service will be Restricted in their Ability to Manoeuvre 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 of 500 metres when they are undertaking it work and showing the appropriate shapes and lights.

# MORAY EAST OFFSHORE WINDFARM

Figure 2 - Planned installed asset locations



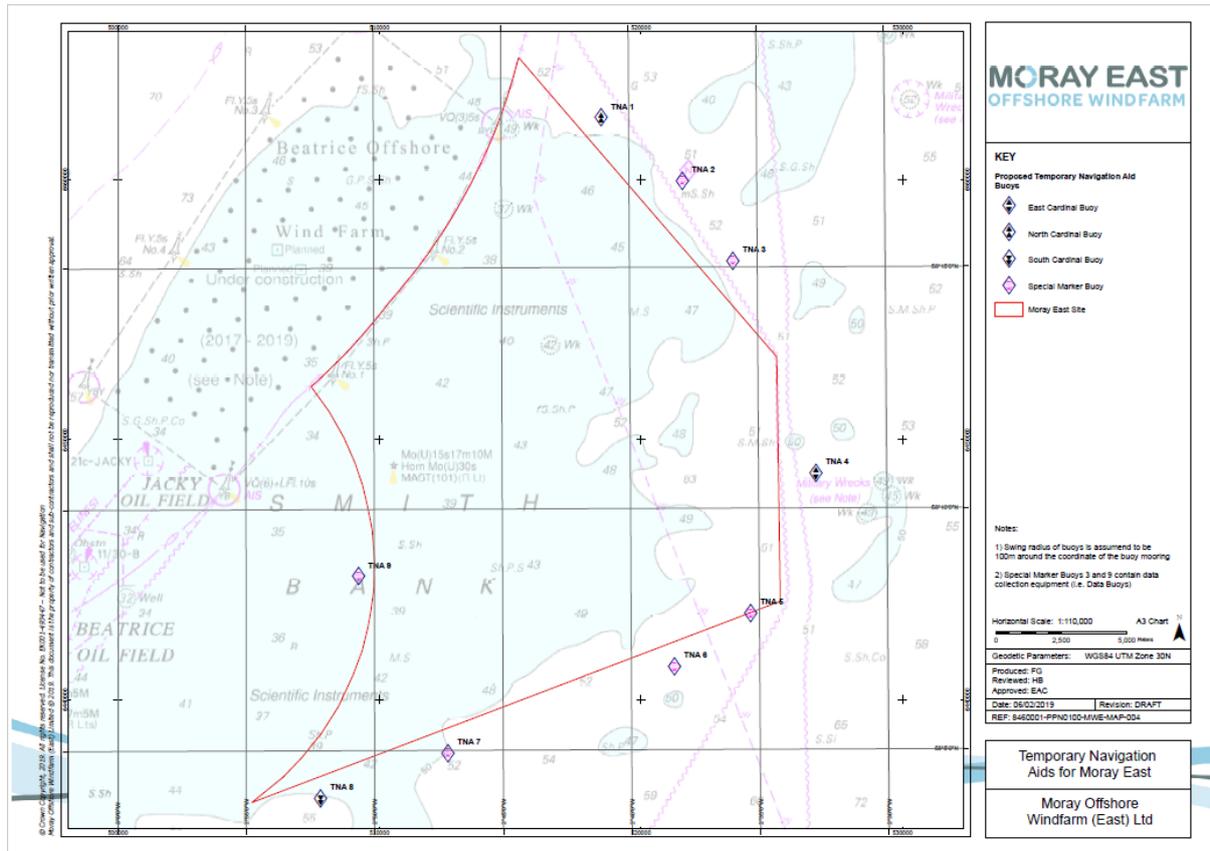
**4. Construction Markers**

Moray East has completed the deployment of nine construction marker buoys around the Moray East site. The marker buoys will remain in place until after construction of the Moray East Offshore Wind Farm is complete. The co-ordinates for the as-built marker buoys are provided in the Table 1 below. It is confirmed that a separate Notice to Mariners will be issued in relation to the maintenance works on the marker buoys and the relocation of the East Cardinal Marker Buoy.

**Table 1 – Marker buoy locations**

Name	WGS84		WGS84 UTM Zone 30N	
	Latitude (dms)	Longitude (dms)	Easting (m)	Northing (m)
<b>Buoy 1 - North Cardinal Buoy</b> , Pillar shaped with a north cardinal shaped top mark, exhibiting a Quick (Q) White (W) light character and AIS.	58° 18' 6.600" N	2° 41' 4.800" W	518481.96	6462358.27
<b>Buoy 2 - Special Mark Buoy</b> , Pillar shaped with a yellow 'x' shaped top mark, exhibiting a Fl Y 5s light character.	58° 16' 48.300" N	2° 37' 55.380" W	521579.08	6459952.33
<b>Buoy 3 - Special Mark Buoy</b> , Pillar shaped with a yellow 'x' shaped top mark, exhibiting a Fl Y 5s light character.	58° 15' 8.460" N	2° 35' 57.300" W	523521.05	6456875.58
<b>Buoy 4 - East Cardinal Buoy</b> , Pillar shaped with an east cardinal shaped top mark, exhibiting a Very (V) Q (3) 5 second (s) W light character and AIS.	58° 10' 44.100" N	2° 32' 45.840" W	526654.42	6448719.36
<b>Buoy 5 - Special Mark Buoy</b> , Pillar shaped with a yellow 'x' shaped top mark, exhibiting a Fl Y 5s light character.	58° 7' 49.680" N	2° 35' 20.640" W	524201.44	6443309.27
<b>Buoy 6 - Special Mark Buoy</b> , Pillar shaped with a yellow 'x' shaped top mark, exhibiting a Fl Y 5s light character.	58° 6' 43.980" N	2° 38' 19.860" W	521280.40	6441260.65
<b>Buoy 7 - Special Mark Buoy</b> , Pillar shaped with a yellow 'x' shaped top mark, exhibiting a Fl Y 5s light character.	58° 4' 57.240" N	2° 47' 9.360" W	512624.16	6437922.64
<b>Buoy 8 – South Cardinal</b> , Pillar shaped with a south cardinal shaped top mark, exhibiting a V Q (6) + L Fl 10s W light character and AIS.	58° 4' 1.140" N	2° 52' 6.660" W	507757.35	6436175.21
<b>Buoy 9 - Special Mark Buoy</b> , Pillar shaped with a yellow 'x' shaped top mark, exhibiting a Fl Y 5s light character.	58° 8' 37.080" N	2° 50' 37.080" W	509205.67	6444712.15

Figure 3 - Layout of demarcation buoyage



## 5. Contact details

For fisheries related matters  
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