

檔 號：

保存年限：

## 中能發電股份有限公司 函

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速別：普通件

密等及解密條件或保密期限：

附件：如文(附件一 1120223001\_Attach1.pdf)

主旨：檢送「中能離岸風場基樁運輸及安裝工程」作業相關資訊，敬請貴局協助發布航船佈告，詳如說明，請查照。

說明：本公司計畫從2023年3月到2023年10月期間執行「中能離岸風場基樁運輸及安裝工程」，其工程範圍、施工位置、施工廠商、施工船舶、航行路線與相關聯繫人員資訊詳如附件一。敬請貴局協助發布航船佈告。

正本：交通部航港局

副本：

交通部航港局



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## 附件一 Appendix 1

### 一、 作業範圍 (Construction Area)

本作業區域為中能離岸風電場址之海域，場址水深約為26至39公尺，水下基礎之安裝點位如表1所示，而風場區域如表2及圖1所示。

The operation area is the sea area of Zhongneng Offshore Wind Farm Site, where the water depth is about 26 to 39 meters. The installation locations of the subsea foundations are shown in Table 1, and the boundary of the wind farm area is shown in Table 2 and Figure 1.

表1、本計畫預計施工點位 Table 1 foundation locations

Installation locations	WGS 84		Installation locations	TWD 97	
	Long (X coordinate)	Lat (Y coordinate)		Easting (X coordinate)	Northing (Y coordinate)
<b>ZN01A</b>	120.1470682	23.9324320	<b>ZN01A</b>	163173.94	2647802.37
<b>ZN02A</b>	120.1548039	23.9309088	<b>ZN02A</b>	163960.45	2647628.94
<b>ZN03A</b>	120.1628706	23.9306666	<b>ZN03A</b>	164781.50	2647597.23
<b>ZN04B</b>	120.1751379	23.9138455	<b>ZN04B</b>	166019.47	2645726.87
<b>ZN05A</b>	120.1697189	23.9287246	<b>ZN05A</b>	165477.41	2647378.02
<b>ZN06A</b>	120.1775754	23.9280949	<b>ZN06A</b>	166276.84	2647303.60
<b>ZN07A</b>	120.1847871	23.9272398	<b>ZN07A</b>	167010.48	2647204.64
<b>ZN08A</b>	120.1391331	23.9227771	<b>ZN08A</b>	162359.61	2646737.95
<b>ZN09B</b>	120.1309966	23.9124545	<b>ZN09B</b>	161524.21	2645599.74
<b>ZN10A</b>	120.1397543	23.9106233	<b>ZN10A</b>	162414.66	2645391.47
<b>ZN11B</b>	120.1503220	23.9085205	<b>ZN11B</b>	163489.26	2645152.08
<b>ZN12B</b>	120.1593912	23.9068813	<b>ZN12B</b>	164411.61	2644965.00
<b>ZN13C</b>	120.1661630	23.9015295	<b>ZN13C</b>	165097.64	2644368.20
<b>ZN14B</b>	120.1213073	23.9009472	<b>ZN14B</b>	160529.73	2644331.36
<b>ZN15B</b>	120.1301568	23.8989287	<b>ZN15B</b>	161429.47	2644102.23
<b>ZN16B</b>	120.1411011	23.8971563	<b>ZN16B</b>	162542.73	2643899.11
<b>ZN17C</b>	120.1505108	23.8941903	<b>ZN17C</b>	163498.94	2643564.84
<b>ZN18D</b>	120.1565837	23.8881746	<b>ZN18D</b>	164113.39	2642894.88
<b>ZN19B</b>	120.1136425	23.8916073	<b>ZN19B</b>	159742.76	2643301.79
<b>ZN20C</b>	120.1223561	23.8881608	<b>ZN20C</b>	160627.74	2642914.54
<b>ZN21C</b>	120.1323086	23.8868216	<b>ZN21C</b>	161640.37	2642759.97
<b>ZN22C</b>	120.1426831	23.8850935	<b>ZN22C</b>	162695.72	2642562.14
<b>ZN23D</b>	120.1475983	23.8755283	<b>ZN23D</b>	163189.91	2641499.73
<b>ZN24C</b>	120.1046645	23.8804645	<b>ZN24C</b>	158820.67	2642073.44
<b>ZN25C</b>	120.0970551	23.8700601	<b>ZN25C</b>	158038.36	2640926.02
<b>ZN26C</b>	120.1034488	23.8675722	<b>ZN26C</b>	158687.83	2640646.34
<b>ZN27D</b>	120.1101765	23.8660745	<b>ZN27D</b>	159372.02	2640476.14
<b>ZN28D</b>	120.1170582	23.8653023	<b>ZN28D</b>	160072.42	2640386.23
<b>ZN29D</b>	120.1238981	23.8637055	<b>ZN29D</b>	160768.01	2640205.05
<b>ZN30D</b>	120.1309056	23.8627714	<b>ZN30D</b>	161481.13	2640097.20
<b>ZN31D</b>	120.1378751	23.8622244	<b>ZN31D</b>	162190.66	2640032.27

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\*實際施工點位可能因水深、海流及其他不確定之海氣象因素而有微調或增減。

\*The practical installation locations will possibly vary with depth, current and other uncertain weather conditions.

表2、風場邊界點位 Table 2 The boundary of wind farm

Wind farm Boundary	WGS 84		Wind farm Boundary	TWD 97	
	Long (X coordinate)	Lat (Y coordinate)		Easting (X coordinate)	Northing (Y coordinate)
1	120.1388877	23.9454036	1	162349.91	2649244.09
2	120.1931039	23.9366383	2	167863.12	2648240.70
3	120.1351752	23.8560442	3	161911.48	2639349.47
4	120.0737743	23.8657379	4	155664.02	2640462.63

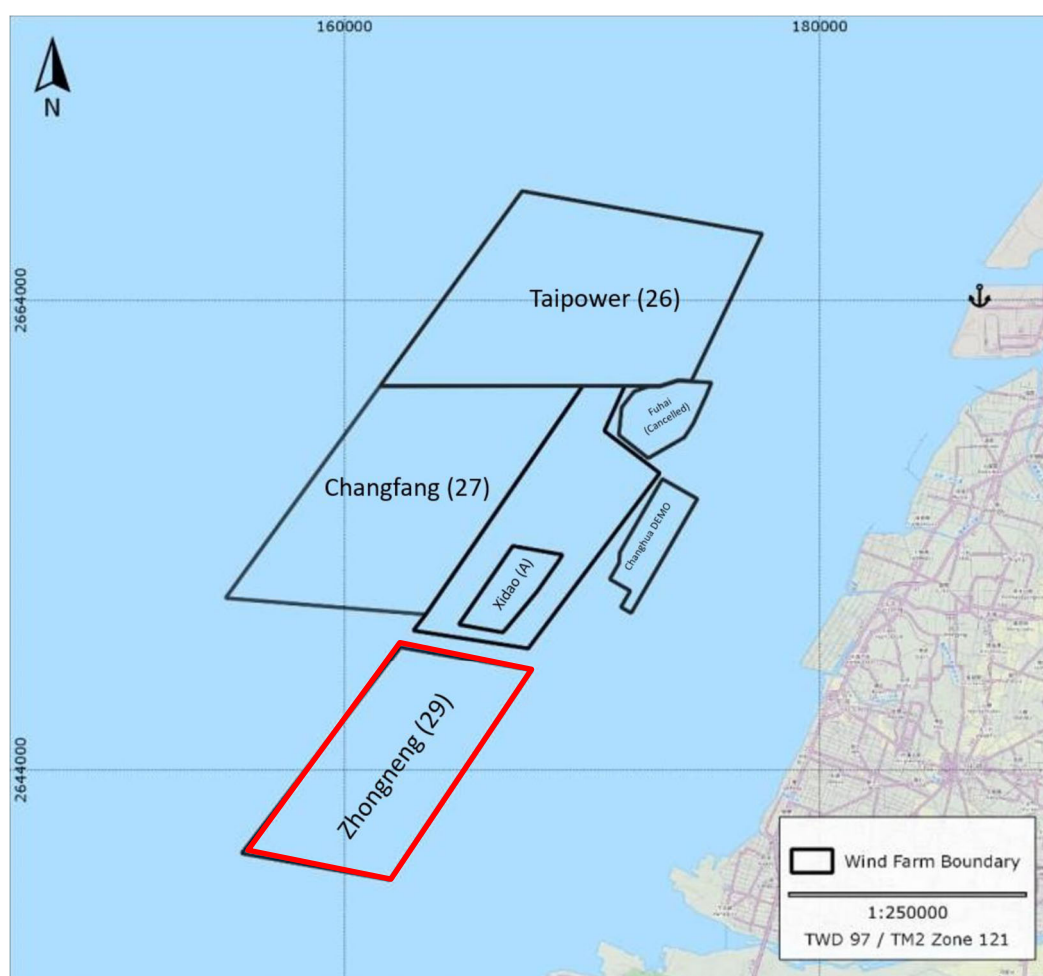


圖1、本計畫工作區域 Figure 1 ZN project area

## 二、 作業期程(Construction Period)

本計畫船舶預計作業期程為112年3月1日至112年10月31日，惟此期程將依照現場施工或海氣象條件而有所變動。

The estimated construction period of this project is from 2023.03.01 to 2023.10.31, which will vary with practical operation situation and weather condition.

## 三、 承攬廠商與相關聯繫人員(Contractors and relevant contact people)

本計畫主要由台船環海工程股份有限公司所承攬，其相關聯繫相關人員如表2所示。

This plan is carried out by CDWE(CSBC-DEME Wind. Engineering Co., Ltd.), and the relevant contact people are showed as Table 2.

表2、承攬廠商及聯繫人員 Table 2 contacts and contact people

施工廠商 contractor	施工期間 duration	聯絡人員 name	聯絡電話 Phone No.	施工範圍 Operationa area
CDWE	Every day 00:00~24:00	James Lin (林敏清)	0975-852-093	如第一章節 As chapeter 1
CDWE	Every day 09:00~18:00	Jay Huang (黃建遠)	+886 2 6604-0888 #302	如第一章節 As chapeter 1
CDWE	Every day 07:00~19:00	Ken Lee (李柏霖)	+886 2 6604-0888 #659	如第一章節 As chapeter 1
CDWE	Every day 07:00~19:00	Pei Hui Ng (黃培惠)	+886 2 6604-0888 #324	如第一章節 As chapeter 1

#### 四、 施工船舶 ZN project construction vessels

本專案所將動員之船舶如下所述：

The vessels which will be mobilized are listed as the followings.

##### 船舶基本資訊 vessel information



Name	Apollo
Call sign:	LXBP
IMO No:	9769764
MMSI:	253586000
Vessel Type	Jack up vessel
Nationality	Luxembourg
Length & Breadth	89.28m * 42.02m
Draft	8.2m



### 船舶基本資訊 vessel information



Name	Breughel
Call sign:	PCKS
IMO No:	9602849
MMSI:	244020374
Vessel Type	Seabed preparation vessel
Nationality	Netherlands
Length & Breadth	121.5m x 28 m
Draft	9.1m

## 船舶基本資訊 vessel information



Name	Symphony Provider
Call sign:	PCVX
IMO No:	9770713
MMSI:	244060802
Vessel Type	Pin pile transportation vessel
Nationality	Netherlands
Length & Breadth	124.67m*18m
Draft	5.4m

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船舶基本資訊 vessel information



Name	Pacific Legacy
Call sign:	9V7050
IMO No:	9648374
MMSI:	565240000
Vessel Type	Double Big Bubble Curtain vessel
Nationality	Singapore
Length & Breadth	97.29m *20m
Draft	6.8m



### 船舶基本資訊 vessel information



Name	Sunny Bright (向陽山號)
Call sign:	9V7050
IMO No:	9668520
MMSI:	416254700
Vessel Type	Survey vessel
Nationality	Taiwan
Length & Breadth	53.8m x 13 m
Draft	6.8m

**船舶基本資訊 vessel information**

Name	MP Prospect
Call sign:	BR4590
IMO No:	9760689
MMSI:	563175700
Vessel Type	MMO / Noise monitoring vessel
Nationality	Singapore
Length & Breadth	70m * 16.6m
Draft	6.3m

## 船舶基本資訊 vessel information



Name	Orient No.6(東風六號)
Call sign:	BR4338x`
IMO No:	9441635
MMSI:	416006265
Vessel Type	MMO vessel
Nationality	Taiwan
Length & Breadth	43m * 12.6m
Draft	4.9m

## 船舶基本資訊 vessel information



Name	Falcon No.1(宏隼一號)
Call sign:	BR4323
IMO No:	9884057
MMSI:	416006192
Vessel Type	CTV
Nationality	Taiwan
Length & Breadth	26.8m x 10.32 m
Draft	2.1m



## 五、 預計航行路線 The planned sailing route

本計畫動員之所有船舶，預計於112年2月底抵達高雄港及安平港，於港口進行清關及動員作業後，行駛至中能風場執行作業，而於基樁安裝期間，除鯨豚觀察船與人員運輸將來往台中港以外，其他船舶主要停留於風場以及往返高雄港、台中港、安平港及風場間進行相關補給作業，如有緊急情況或氣候影響，則將會考量台中港及高雄港作為緊急避難港口。

All vessels mobilized for this plan are expected to arrive at Kaohsiung Port and Anping Port at the end of February 2023. After customs clearance and mobilization operations at the ports, they will sail to Zhongneng Wind Farm to perform operations. During the pin pile installation, except the cetacean observation vessel and crew transfer vessel will only sail in and out Taichung Port, and other vessels will mainly stay at the wind farm and sail between Kaohsiung Port, Taichung Port, Anping Port and the wind farm for supply operations. In case of an emergency or climate impact, Taichung Port and Kaohsiung harbor will be considered as emergency harbors of refuge.



圖2、本計畫船舶航行路線 Figure 2 The planned sailing route of ZN project