

### 一、 施工範圍 (Construction Area)

本作業包含海纜調查、鋪設與埋設，區域為中能離岸風場海纜廊道及風場內部範圍，範圍內海域水深約在4公尺至40公尺間，如圖1中標示範圍，風場及海纜廊道邊界座標點如表1及表2所示。

The operation includes cable survey, laying and trenching. The area is composed of Zhong Neng Offshore Cable Corridor and Wind Farm Site, where the water depth is about 4 to 40 meters. The area is shown in Figure 1, and the boundary coordinates of wind farm and cable corridor are listed in Table 1 and Table 2.

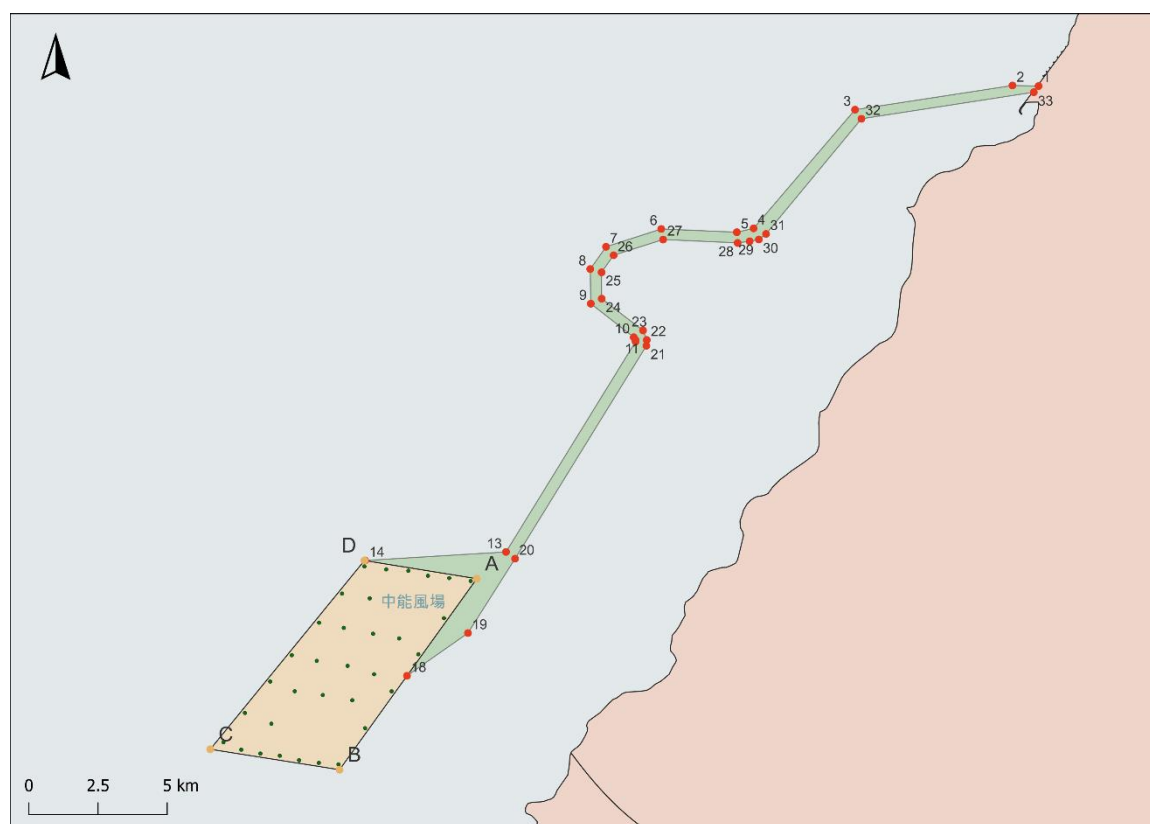


圖1、本計畫工作區域 Figure 1 ZN project area

表1、風場範圍邊界座標點位

Table 1 The boundary of wind farm

ID	WGS 84		TWD 97	
	Long (X座標)	Lat (Y座標)	X	Y
A	120°11'12.975"	23°55'41.034"	167229.94	2647294.79
B	120°8'17.735"	23°51'37.22"	162228.58	2639823.19
C	120°5'32.554"	23°52'3.309"	157560.04	2640655.02
D	120°8'49.502"	23°56'4.233"	163176.93	2648032.43

表2、海纜廊道邊界座標點位

Table 2 The boundary of cable corridor

ID	WGS 84		TWD 97	
	Long (X座標)	Lat (Y座標)	X	Y
1	120°23'10.669"	24°6'9.908"	187609.75	2666539.16
2	120°22'37.295"	24°6'10.617"	186667.37	2666565.15
3	120°19'16.227"	24°5'39.705"	180984.56	2665640.47
4	120°17'6.619"	24°3'8.229"	177300.41	2660998.49
5	120°16'45.25"	24°3'3.377"	176695.94	2660852.30
6	120°15'8.667"	24°3'7.468"	173967.92	2660992.42
7	120°13'58.158"	24°2'44.746"	171972.12	2660304.09
8	120°13'37.94"	24°2'16.311"	171396.07	2659432.44
9	120°13'38.67"	24°1'32.079"	171409.23	2658071.52
10	120°14'33.507"	24°0'49.277"	172951.72	2656746.28
11	120°14'35.831"	24°0'45.755"	173016.82	2656637.58
12	120°14'35.886"	24°0'43.688"	173018.01	2656573.97
13	120°11'50.357"	23°56'15.239"	168293.03	2648341.04
14	120°8'50.302"	23°56'4.3"	163199.56	2648034.35
D	120°8'49.502"	23°56'4.233"	163176.93	2648032.43
A	120°11'12.975"	23°55'41.034"	167229.94	2647294.79
18	120°9'43.858"	23°53'37.081"	164687.16	2643496.08
19	120°11'1.771"	23°54'31.648"	166900.77	2645161.96
20	120°12'1.967"	23°56'6.619"	168619.85	2648073.99
21	120°14'49.711"	24°0'38.412"	173407.85	2656409.57
22	120°14'50.22"	24°0'45.763"	173423.45	2656635.63
23	120°14'45.348"	24°0'57.932"	173287.78	2657010.76
24	120°13'52.574"	24°1'38.443"	171803.20	2658265.13
25	120°13'52.42"	24°2'12.148"	171804.51	2659302.10
26	120°14'7.859"	24°2'33.908"	172244.39	2659969.17
27	120°15'11.034"	24°2'53.951"	174032.61	2660576.19
28	120°16'46.209"	24°2'49.676"	176720.87	2660430.65
29	120°17'1.624"	24°2'51.743"	177156.70	2660492.02
30	120°17'13.358"	24°2'54.015"	177488.57	2660560.24
31	120°17'22.574"	24°3'1.079"	177750.03	2660776.24
32	120°19'24.398"	24°5'28.086"	181213.60	2665281.90
33	120°23'4.6"	24°6'2.002"	187437.28	2666296.69

## 二、 作業期程(Construction period)

本計畫船舶預計作業期程為112年5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 vessel operation duration of this project is from 2023.05.01 to 2023.10.31, which will vary with actual operation situation and weather condition.

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

本計畫主要由汐威離岸電纜鋪設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 scope of work is contracted to SOC (Seaway Offshore Cables GmbH), and the relevant contact persons are showed in Table 2.

表2、承攬廠商及聯繫人員 Table 2 Contractors and contact persons

施工廠商 Contractors	施工期間 Duration	聯絡人員 Name	聯絡電話 Phone No.	施工範圍 Operational area
SOC	Every day 00:00~24:00	Steven Lee	+886-2-8979-0320	如第一章節 As Chapter 1
SOC	Every day 00:00~24:00	Vincent Berlim	+886-2-8979-1208	如第一章節 As Chapter 1
SOC	Every day 00:00~24:00	Winnie Tan	+886-2-8979-4621	如第一章節 As Chapter 1

#### 四、 施工船舶 construction vessels

本專案所將動員之船舶如下所述：

Following vessels will be mobilised for the Scope of Work

##### 船舶基本資訊 Vessel Information



Name	Topaz Installer
Call sign:	V7EN3
IMO No:	9199854
MMSI:	538007103
Vessel Type	Cable Layer
Nationality	Marshall Islands [MH]
Length & Breadth	88.20m * 24.00m
Draft	4.5m

## 船舶基本資訊 Vessel Information



Name	Seaway Phoenix
Call sign:	2EEZ6
IMO No:	9250529
MMSI:	235084529
Vessel Type	Cable Layer
Nationality	Isle of Man
Length & Breadth	129.9m * 27.8m
Draft	4.8~8.4m



## 船舶基本資訊 Vessel Information



Name	Maersk Connector
Call sign:	OWEB2
IMO No:	9743813
MMSI:	219275000
Vessel Type	Cable Layer
Nationality	Denmark
Length & Breadth	138.35m * 27.45m
Draft	3.6~6.25m

## 船舶基本資訊 Vessel Information



Name	Normand Baltic
Call sign:	2DAO6
IMO No:	9468190
MMSI:	235077315
Vessel Type	Offshore Support Vessel
Nationality	Isle of Man
Length & Breadth	96.30m x 20.00 m
Draft	6.66m

裝

訂

線

## 船舶基本資訊 Vessel Information



Name	MV Solaris
Call sign:	BR3983
IMO No:	NA
MMSI:	416005438
Vessel Type	Working Vessel
Nationality	Taiwan ROC
Length & Breadth	21.20m*8.00m
Draft	2.50m



## 船舶基本資訊 Vessel Information



Name	APT No.503
Call sign:	BR4563
IMO No:	9444132
MMSI:	416007985
Vessel Type	Tug
Nationality	Taiwan ROC
Length & Breadth	60m *16m
Draft	5.1m

裝

訂

線

船舶基本資訊 Vessel Information



Name	Feng Neng 5 (風能5號)
Call sign:	BQ3014
IMO No:	N/A
MMSI:	416005838
Vessel Type	Diving Support vessel
Nationality	Taiwan
Length & Breadth	12.00m x 4.03 m
Draft	0.7 m

## 船舶基本資訊 Vessel Information



Name	Echo 3
Call sign:	BQ3088
IMO No:	N/A
MMSI:	416008182
Vessel Type	Support vessel
Nationality	Taiwan
Length & Breadth	6.01m * 2.99 m
Draft	Approx 0.2 m

船舶基本資訊 Vessel Information



Name	Prosperous 2
Call sign:	BR4430
IMO No:	9698003
MMSI:	416006693
Vessel Type	Crew transfer vessel
Nationality	Taiwan
Length & Breadth	25.75m * 10.4 m
Draft	Approx 2m



### 船舶基本資訊 Vessel Information



Name	仕國衛7號 TRITON7 (本次新增)
Call sign:	BR4594
IMO No:	9495909
MMSI:	416008846
Vessel Type	Working Vessel
Nationality	Taiwan [TW]
Length & Breadth	34.00m * 8.00m
Draft	3.31m



## 船舶基本資訊 Vessel Information



Name	仕國衛8號 TRITON8 (本次新增)
Call sign:	BR4597
IMO No:	9486776
MMSI:	416008865
Vessel Type	Working Vessel
Nationality	Taiwan [TW]
Length & Breadth	31.76m * 8.00m
Draft	2.35m

### 船舶基本資訊 Vessel Information



Name	裕元101號 YU YUAN NO.101 (本次新增)
Call sign:	BR3427
IMO No:	9495909
MMSI:	416004087
Vessel Type	Tug
Nationality	Taiwan [TW]
Length & Breadth	28.23m * 9.20m
Draft	2.90m

### 船舶基本資訊 Vessel Information



Name	宏運3號 Hung Yunn No.3 (本次新增)
Call sign:	BR3066
IMO No:	N/A
MMSI:	416000030
Vessel Type	Tug
Nationality	Taiwan [TW]
Length & Breadth	32.03m * 9.60m
Draft	3.10m

## 船舶基本資訊 Vessel Information



Name	東方6號 Orient No.6 (本次新增)
Call sign:	BR4338
IMO No:	9441635
MMSI:	416006265
Vessel Type	Tug
Nationality	Taiwan [TW]
Length & Breadth	43.00m * 12.60m
Draft	4.3m

### 船舶基本資訊 Vessel Information



Name	東方7號 Orient No.7 (本次新增)
Call sign:	BR4339
IMO No:	9457073
MMSI:	416006266
Vessel Type	Tug
Nationality	Taiwan [TW]
Length & Breadth	43.00m * 12.60m
Draft	4.3m



### 船舶基本資訊 Vessel Information



Name	東方8號 Orient No.8 (本次新增)
Call sign:	BR4340
IMO No:	9457074
MMSI:	416006267
Vessel Type	Tug
Nationality	Taiwan [TW]
Length & Breadth	50.00m * 13.80m
Draft	4.8m

### 船舶基本資訊 Vessel Information



Name	金佶利666號 Jinjili 666 (本次新增)
Call sign:	BK8222
IMO No:	N/A
MMSI:	416005402
Vessel Type	Fishing Vessel
Nationality	Taiwan [TW]
Length & Breadth	19.68m * 4.90m
Draft	1.6m

## 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4月至5月陸續抵達台中港及高雄港，於港口進行清關及動員作業後，行駛至中能風場執行作業，而於海纜安裝期間，多數船隻將來往台中港，然少數情況船隻仍可能往返高雄港、安平港進行相關補給作業，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 mobilised for this plan are expected to arrive at Kaohsiung Port and Taichung Port from April to May in 2023. After customs clearance and mobilisation operations at the ports, they will sail to Zhongneng Offshore Cable Corridor and Wind Farm Site to perform operations. During the cable installation, most of vessels will sail in and out Taichung Port, in some cases vessels will also sail to Kaohsiung Port or Anping Port for supply operations. In case of an emergency or weather sheltering requirements, 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