

## 附件一 Appendix 1

### 一、 作業範圍 (Construction Area)

本作業包含海纜埋設及安裝支援，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 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.

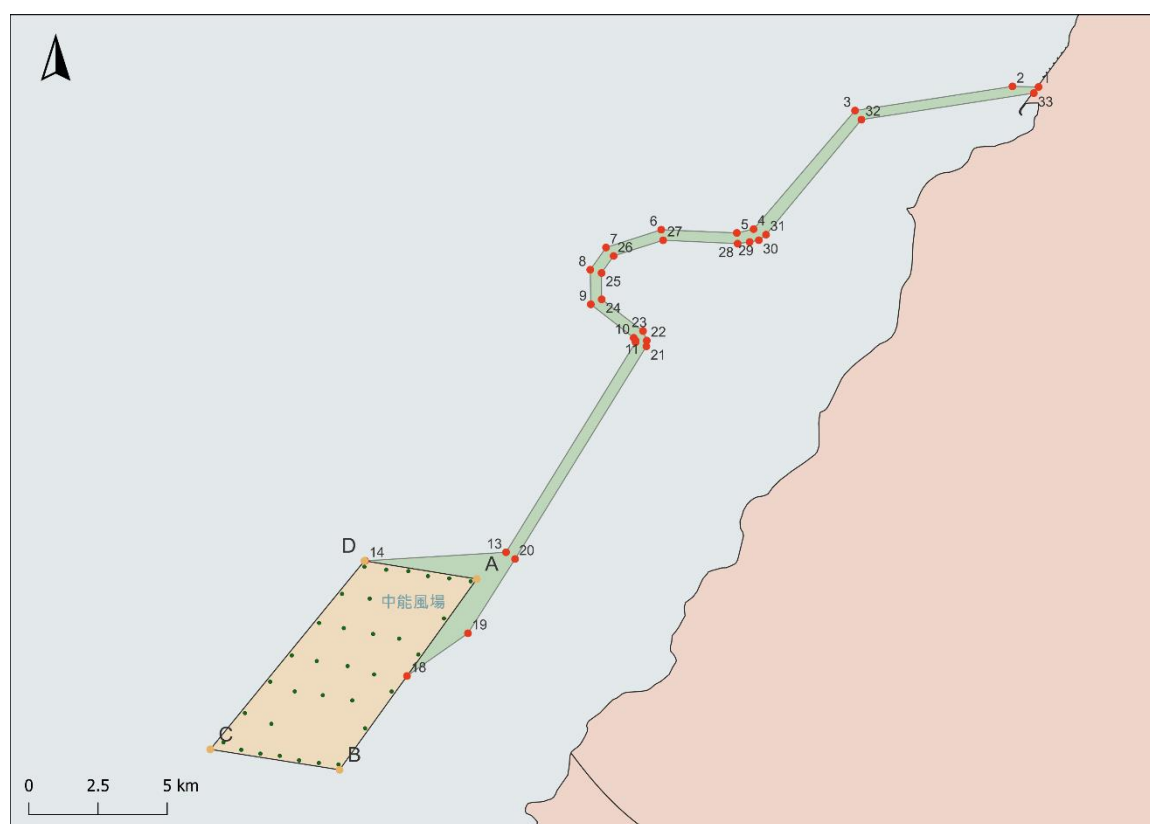


圖1、本計畫工作區域 Figure 1 ZN project area

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

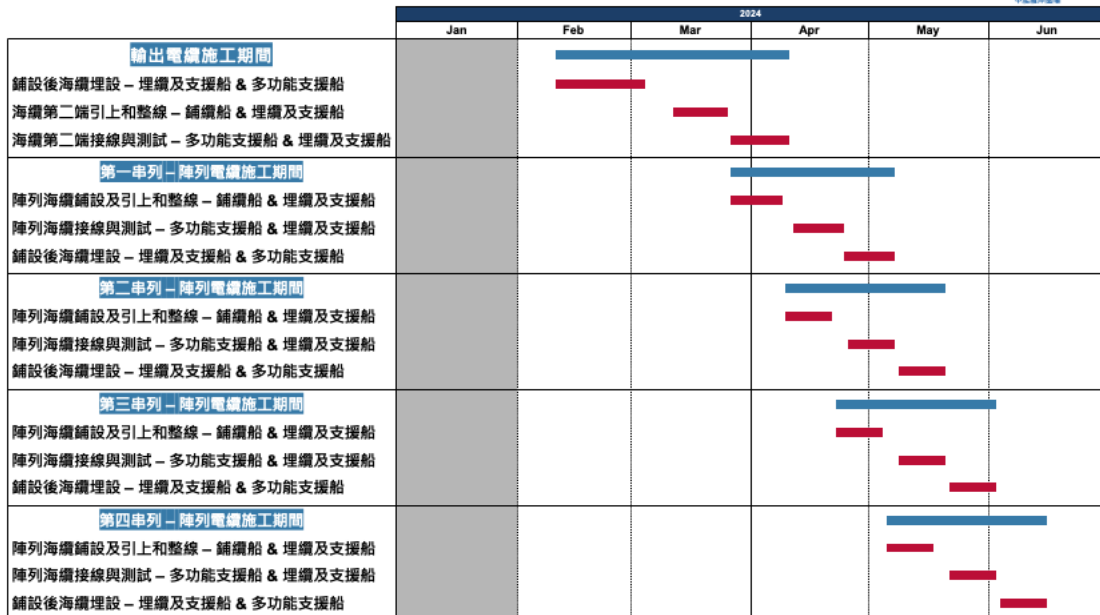
ID	WGS 84		TWD 97	
	Long (X座標)	Lat (Y座標)	X	Y
1	120°23'10.669"	24°6'9.908"	187609.75	2666539.16
2	120°22'37.295"	24°6'10.617"	186667.37	2666565.15
3	120°19'16.227"	24°5'39.705"	180984.56	2665640.47
4	120°17'6.619"	24°3'8.229"	177300.41	2660998.49
5	120°16'45.25"	24°3'3.377"	176695.94	2660852.30
6	120°15'8.667"	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、作業時間表(Construction period)

本計畫船舶預計作業期程為113年2月10日至113年6月30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 2024.02.10 to 2024.6.30, which will vary with actual operation situation and weather condition.

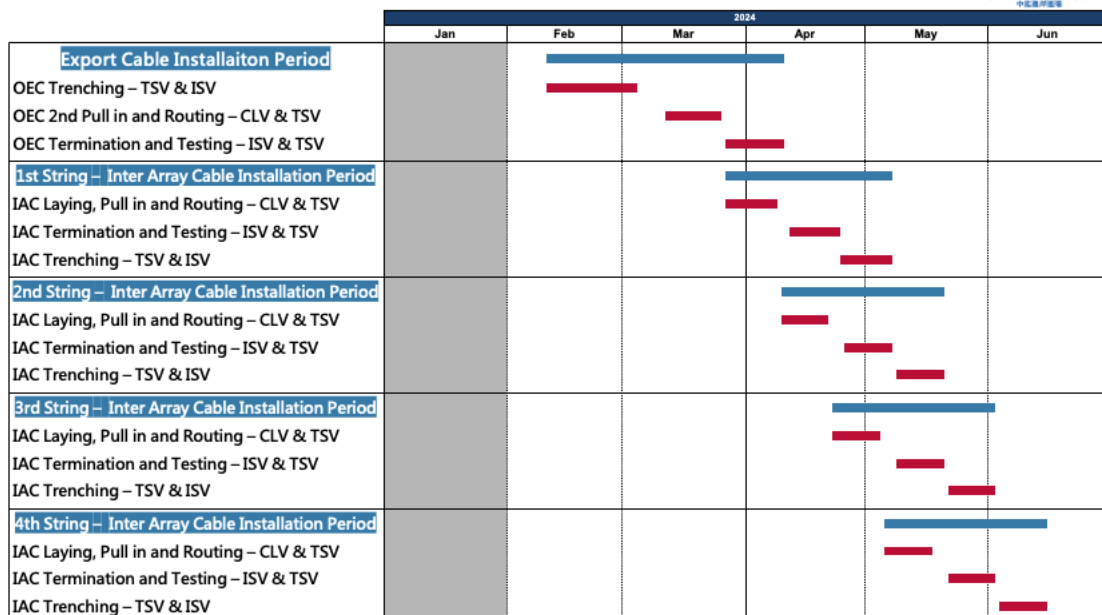
中能風場 2024離岸輸出及陣列電纜施工排程(1/2)



Note:  
灰色區域表示台灣海峽 非施工氣候窗期

1

ZN 2024 Offshore Export and Inter Array Cable Installation Schedule (1/2)



中能風場 2024離岸輸出及陣列電纜施工排程(2/2)

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輸出電纜施工期間	2024/02/11	2024/04/11
鋪設後海纜埋設 – 埋纜及支援船 & 多功能支援船	2024/02/11	2024/03/05
海纜第二端引上和整線 – 鋪纜船 & 埋纜及支援船	2024/03/12	2024/03/26
海纜第二端接線與測試 – 多功能支援船 & 埋纜及支援船	2024/03/27	2024/04/11
第一串列 – 陣列電纜施工期間	2024/03/27	2024/05/08
陣列海纜鋪設及引上和整線 – 鋪纜船 & 埋纜及支援船	2024/03/27	2024/04/09
陣列海纜接線與測試 – 多功能支援船 & 埋纜及支援船	2024/04/12	2024/04/25
鋪設後海纜埋設 – 埋纜及支援船 & 多功能支援船	2024/04/25	2024/05/08
第二串列 – 陣列電纜施工期間	2024/04/10	2024/05/21
陣列海纜鋪設及引上和整線 – 鋪纜船 & 埋纜及支援船	2024/04/10	2024/04/22
陣列海纜接線與測試 – 多功能支援船 & 埋纜及支援船	2024/04/26	2024/05/08
鋪設後海纜埋設 – 埋纜及支援船 & 多功能支援船	2024/05/09	2024/05/21
第三串列 – 陣列電纜施工期間	2024/04/23	2024/06/03
陣列海纜鋪設及引上和整線 – 鋪纜船 & 埋纜及支援船	2024/04/23	2024/05/05
陣列海纜接線與測試 – 多功能支援船 & 埋纜及支援船	2024/05/09	2024/05/21
鋪設後海纜埋設 – 埋纜及支援船 & 多功能支援船	2024/05/22	2024/06/03
第四串列 – 陣列電纜施工期間	2024/05/06	2024/06/15
陣列海纜鋪設及引上和整線 – 鋪纜船 & 埋纜及支援船	2024/05/06	2024/05/18
陣列海纜接線與測試 – 多功能支援船 & 埋纜及支援船	2024/05/22	2024/06/03
鋪設後海纜埋設 – 埋纜及支援船 & 多功能支援船	2024/06/04	2024/06/15

三、 作業船舶 (Construction vessels)

本專案將動員埋纜船如下所述：  
Following vessel will be mobilised for the Scope of Work

### 埋纜及支援船基本資訊 Vessel Information



Name	Grand Canyon II
Call sign:	LACY8
IMO No:	9653874
MMSI:	257038580
Vessel Type	Trenching support vessel
Nationality	Norway
Length & Breadth	125.4m * 25.05m
Draft	7.50m
攜帶儀器列表 Equipment List	
Offshore crane	250 t AHC offshore crane with 3,000 m wire
Offshore crane	1 x 15 t AHC offshore crane with 1000 m wire
Winches	4 tuggerwinches, each 10 Te
ROVs	2 x 250 hp UHD WROVs





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

本計畫動員之船舶，預計於113年2月抵達台中港，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。

The vessel mobilised for this plan is expected to arrive at Taichung Port from February in 2024. 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.

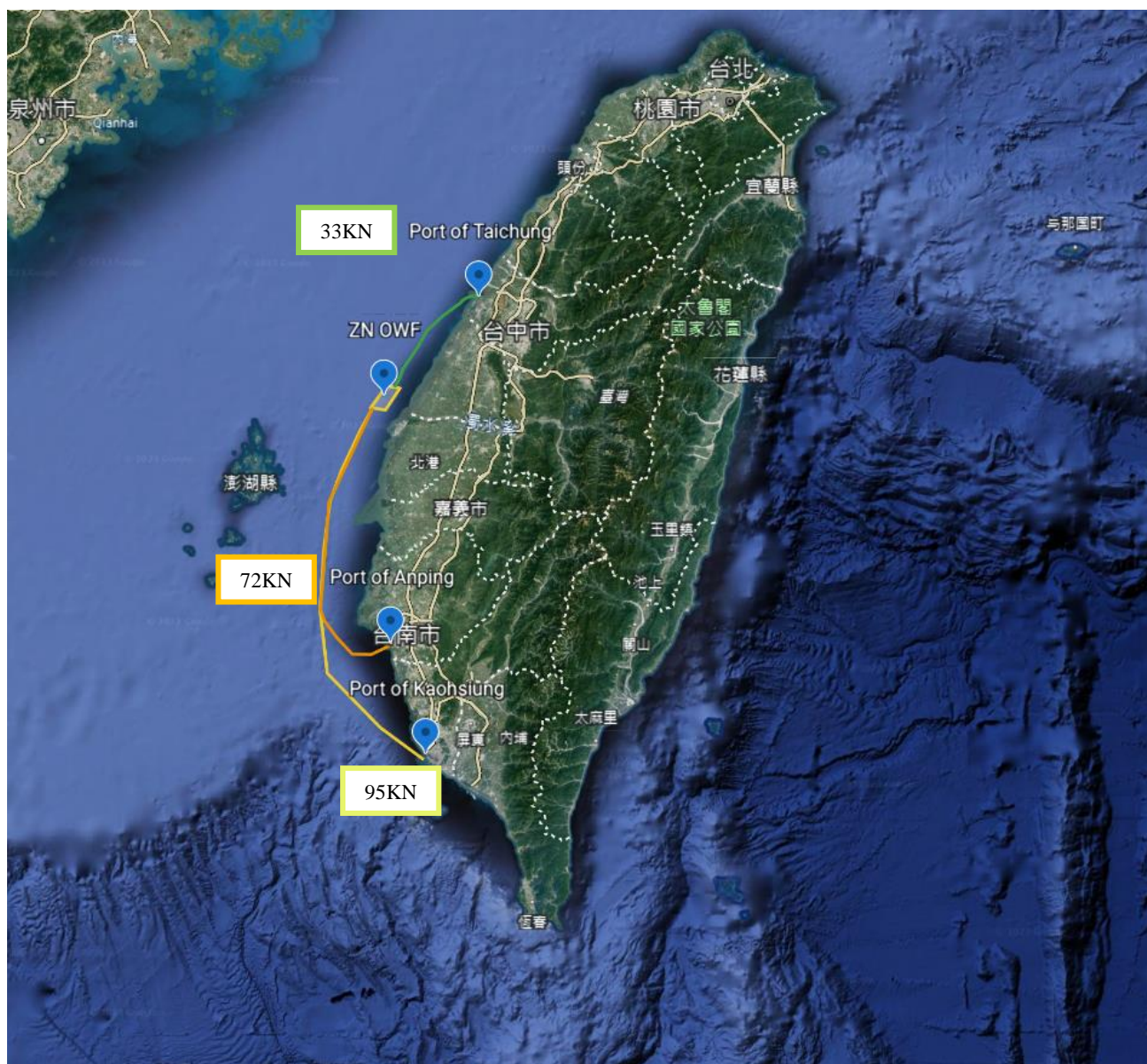


圖2、本計畫船舶航行路線 Figure 2 The planned sailing route of ZN project