



Hermesys



Subsea Cable

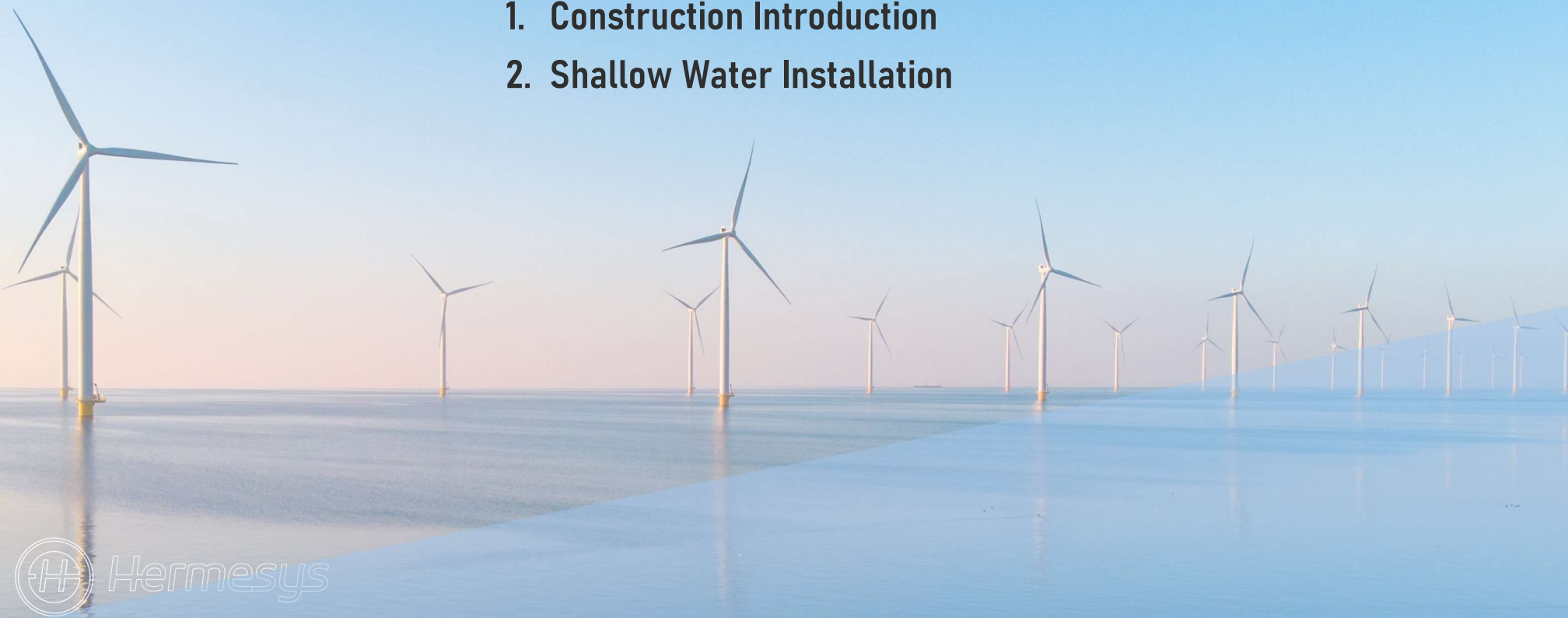


Shallow Water Construction Proposal

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Construction Introduction

Shallow water construction section :

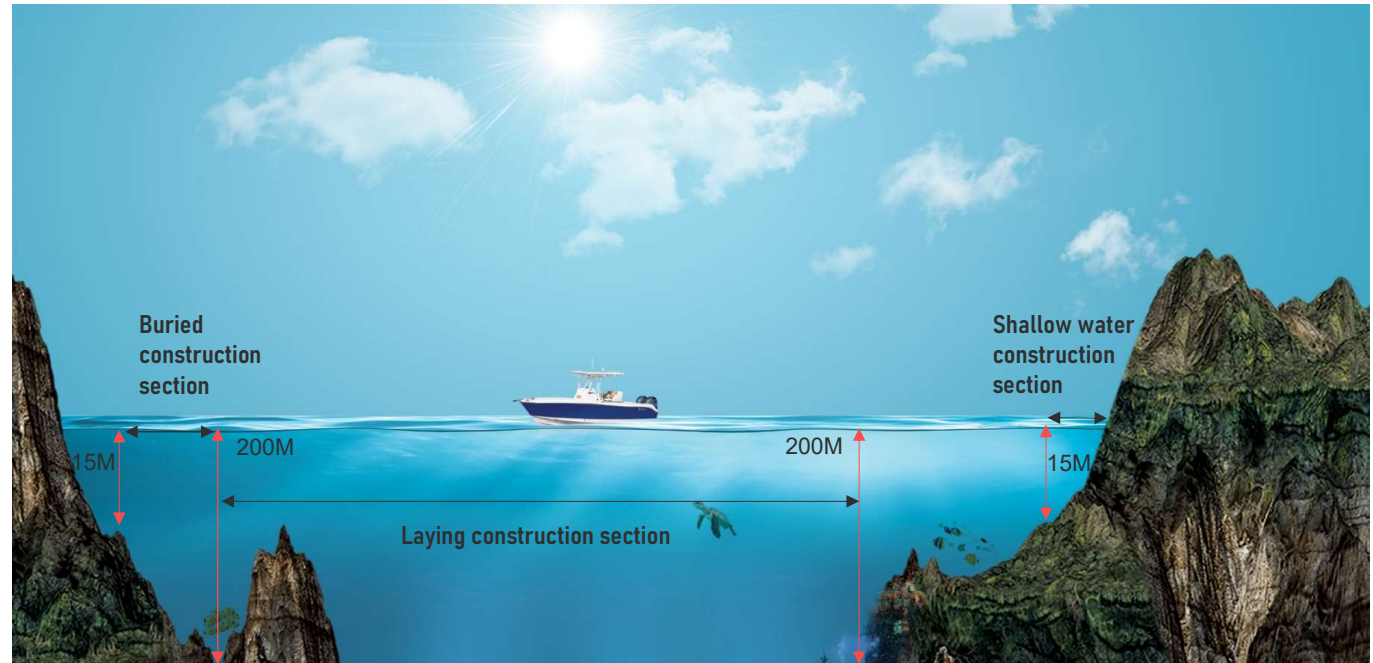
0~15m

Buried construction section :

15~200m

Laying construction section :

200m



Shallow Water installation



Preparation Phase

- Field trips
- Beach manhole position(BMH) 、 Landing point position(LP)
- Shore facilities
- Hydrogeological situation :

Wind, Current, Tides, High and Low Water Marks

- Fishery situation

- Construction plan :

Staff in place ,Engineering detail calculations, Analysis of submarine cable pull

- Personnel preparation:

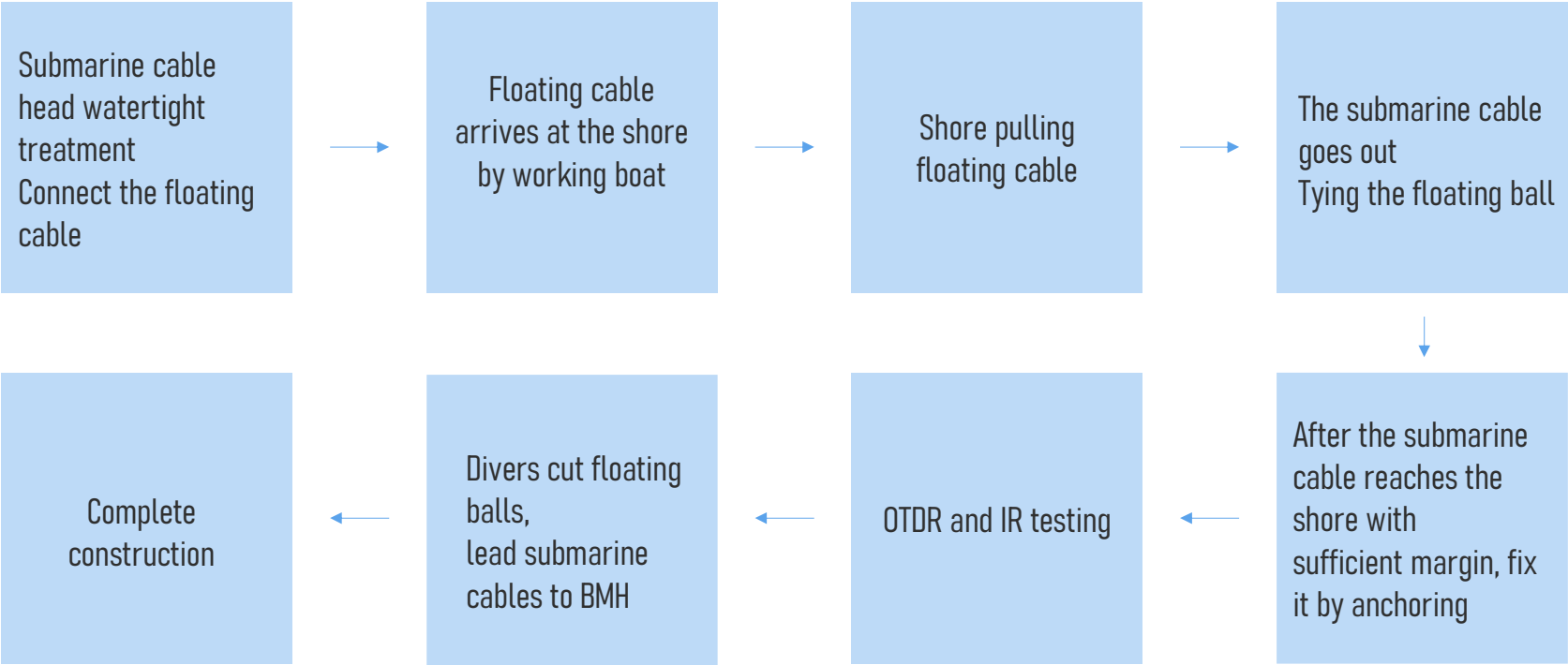
Conductor, diver, machine operator, workboat crew

- Equipment and material preparation:
mechanical equipment, auxiliary equipment, communication equipment

- Routing Survey:

Marking Routes, Clearing Obstacles

Shallow Water installation



Shallow Water installation

Shore pulling
floating cable



Divers cut floating balls,
lead submarine cables to BMH

Shallow Water installation

Protective measures

- **Common protective measures :**
 - Sandbag Covering
 - Cement covering
 - Articulated pipe

- **Articulated pipe :**

Made of cast iron, each section is 50cm long, divided into upper and lower pieces, and the two ends are designed as large and small joints. Easy to install and detachable.

- **Installation range:**

0~5 meters water depth or coral and reef areas.

- **Installation method: diver installation**

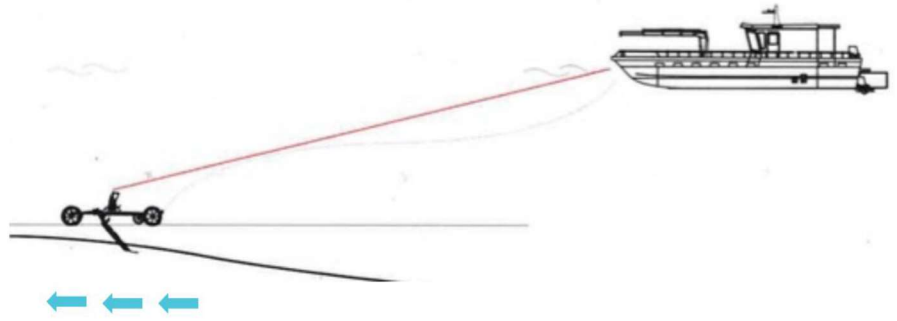
Name:	Articulated Cable Pipe
Size:	AC050-500
Material:	Ductile Iron
Effective Installed Length per Segment	500mm
Internal Diameter:	50mm(for cable up to 42mm diameter)
External Diameter:	68mm
Thickness:	9mm (Tolerance:± 1mm)
Weight Per Segment:	7.5kgs
Weight Per Installed Meter(air):	15.0kgs
Weight Per Installed Meter(sea)	13.0kgs
Tensile Strength:	>450Mpa
Elongation:	> 10%
Impact Resistance	7.5KJ
Minimum Bend Diameter:	≥3.6m
Resistance to Corrosion:	good
Average Corrosion Rate/(mm*a-1)	0.10mm/per
Life Time:	25years
Surface Treatment:	Inside/Outside with Black anti-corrosion Painted
Fasteners:	Material: Stainless Steel Size M10*50 with bolts/nuts/flat washer 2sets per 3 meters of installed pipe



Shallow Water installation

➤ Construction requirements:
The burial depth needs to reach 1.5 meters (more secure)

- 1) Shore and beach part: use manual/mechanical excavation method for burial construction.
- 2) Seabed part: Divers hold high-pressure water guns to carry out flushing and burial operations.



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NEED FURTHER
ASSISTANCE**

