

# Nautilus offshore

**As well as developing our onshore proposals we are also progressing assessments of the project in the marine environment. Offshore components for Nautilus will include:**

- Offshore convertor station platform/s
- A submarine High Voltage Direct Current (HVDC) interconnector

There are a number of factors which will influence the infrastructure required in the marine environment including ongoing discussions with the supply chain, technical assessment and discussions with offshore wind farm developers.

## **Submarine HVDC interconnector**

The interconnector will comprise of HVDC submarine cables. This will be installed between the two respective landfall locations in Belgium and East Suffolk and, where possible, will be buried within the seabed. Where burial within the seabed is not possible, additional cable protection may be required such as the placement of rocks on top of the cable. Although the offshore interconnector route is yet to be defined, its total length between Belgium and East Suffolk will be approximately 200 kilometres (km).



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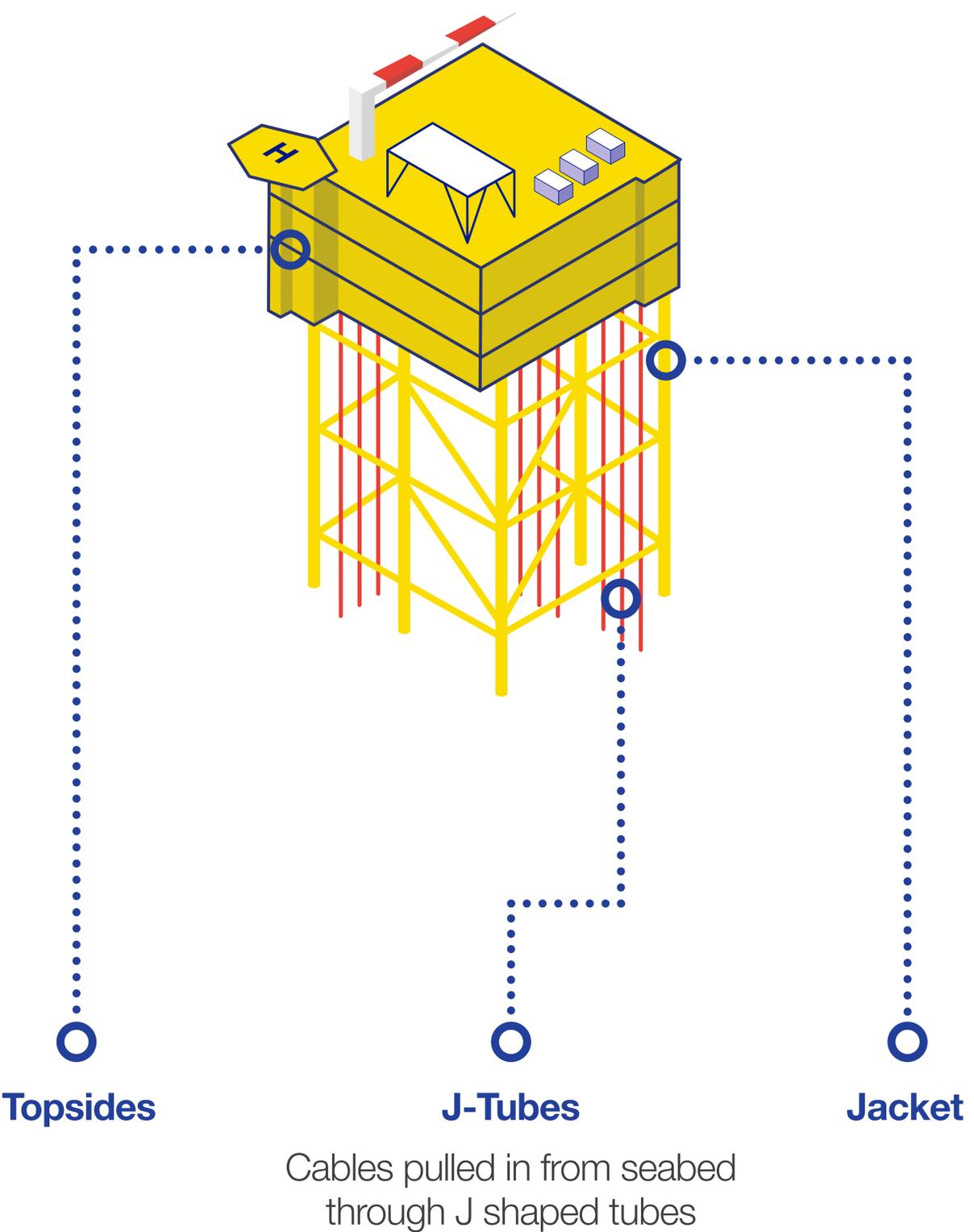
## Offshore converter station platform

Offshore wind farm/s will be connected to the interconnector via offshore HVDC converter station platform/s. The design and configuration of the offshore HVDC converter station platform is still in its early stages.

The approximate maximum dimensions for an offshore HVDC converter station could be 110 metres in length and 80 metres wide, with a height of 45 metres.

If Nautilus connects more than one offshore wind farm then it may be necessary to have two separate offshore converter platforms in order to reduce the length of cabling connecting the offshore wind farm/s. This would be subject to further engagement with stakeholders and relevant offshore wind farm/s.

Our engagement with engineering specialists is ongoing as we continue to discuss and refine what the detailed infrastructure requirements are in the offshore marine environment.



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## Offshore routeing and siting

We are currently identifying potential cable route options and possible location options for the offshore HVDC converter station platform (and any additional infrastructure). As part of this process, we have mapped environmental, social and engineering information to gain a better understanding of the constraints and features that are present in the study area. Key criteria considered to identify routes and sites includes:

- Nature conservation designations and protected habitat areas
- Existing and planned infrastructure (cables, pipelines, wind farms), aggregate extraction areas and disposal sites
- Navigational features, anchorages, major shipping routes, commercial fishing grounds, wrecks
- Water depth, seabed sediment and other seabed features

Once we have identified potential options we will engage with relevant technical marine stakeholders and fisheries organisations to help inform the development and refinement of these options.

The location of the offshore platform will be informed by the alignment of the interconnector cables and the proposed location of the wind farm schemes.

