

TO Stakeholders of the offshore grid

DATE
REFERENCE
FROM

September 11, 2017
NLO-TTB-03811
Net op Zee

SUBJECT Scour protection Hollandse Kust (zuid) Alpha and Beta

REPORT



DECISION



Deltares has conducted a scour assessment for the Hollandse Kust (zuid) offshore high voltage stations Alpha and Beta at the request of TenneT. Based on this assessment and the Borssele physical model tests it has been concluded that scour protection under and around the Hollandse Kust (zuid) platform jackets is required.

In order to provide a stable underground for the subsea cables in the vicinity of the platform, a pre-installed scour protection will be placed under and around the platform jacket as part of the scope of the platform contractor. This scour protection will meet the following requirements:

- Design life: The scour protection will be dynamically stable and will be designed to survive for 30 years without maintenance. The maximum extreme event to be accounted for is the 1/100 yrs wave in combination with the 1/10 yrs tidal current.
- Elevation: Along the first 5 meter of all the cable routes, measured from the J-tube bell mouths, the top of the scour protection shall be at 2,5m (+/- 0,5m) below the centreline of the J-tube bell mouths.
- Radial extent: The scour protection will extend 15m around the jacket base outlines, plus the slopes needed to ensure edge stability.
- Edge stability: The scour protection shall be designed to avoid progressive collapse of scour protection edges.

The design will also fulfil scour protection requirements in the way of the legs of jack-ups servicing the platform during testing and commissioning and during future maintenance operations.

OWF is responsible for the design and installation of the cable over the platform scour protection, the cable protection system, fixation of the cables on the scour protection (if needed) and the protection of the cable on and near the scour protection edge.

The report by Deltares provides the assessment and scour protection design. The report can be requested via [netopzee\(at\)tennet.eu](mailto:netopzee(at)tennet.eu)