

Borssele Kavel V

Two Towers BV

INVESTRI
FFSHORE


Green Giraffe
The renewable energy financial advisors

Van Oord 
Marine ingenuity

Presentation by Wouter Dirks
Van Oord Offshore Wind

Borssele Kavel V

Two Towers BV

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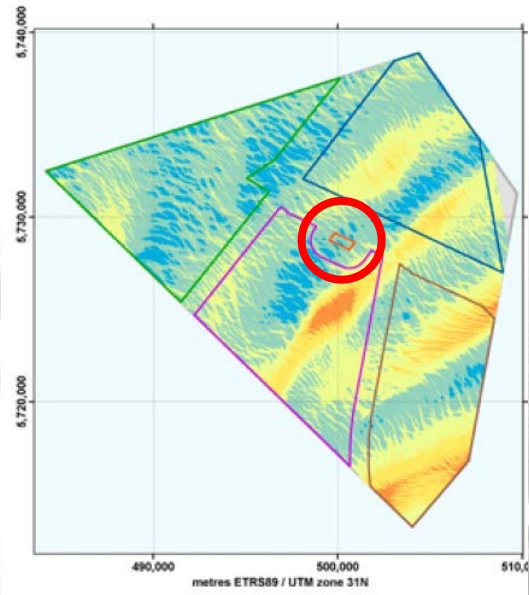
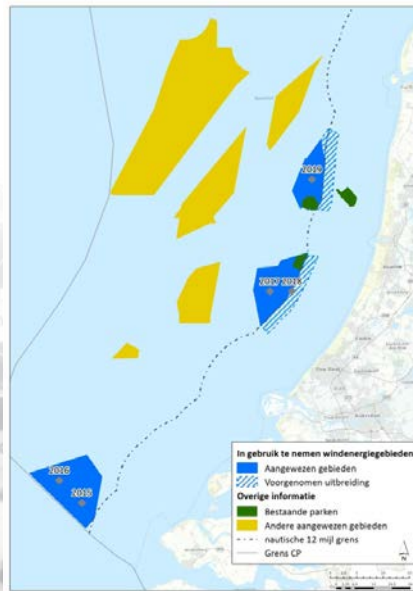
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Requirement: 1 or 2 turbines; minimum 6 MW, max 20 MW to be installed.



Wind: Europe's future energy supply

Ranking Criteria (scale 1-5, minimum of 3 points per criteria)

- *Contribution to cost reduction LCOE for offshore wind*
 - *Contribution to Dutch economy*
 - *Degree of innovation irt International standards, boosting knowledge position of the Netherlands*
 - *Quality of the project*
- **Committee of independent experts**
 - **Each criterion counts equally**
 - **Highest score wins**
 - **More than 1 highest score, lowest investment subsidy wins**

Subsidy

- *Investment grant of €15M (45% max over the extra costs irt BOR III/IV)*
- *Exploitation funding of 0,05449 per kWh with €44M cap*

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Proposal offered

WTG 1 - MHIV 164

- *MP+TP with **Slip Joint** connection*

WTG 2 - MHIV 164

- *Direct MP – tower connection*
- ***TSA** application automated*
- ***ICCP** optimization*

Both

- *Ecofriendly nature-inclusive scour design*
- *Cable entry + CPS re-design*

Wind: Europe's future energy supply

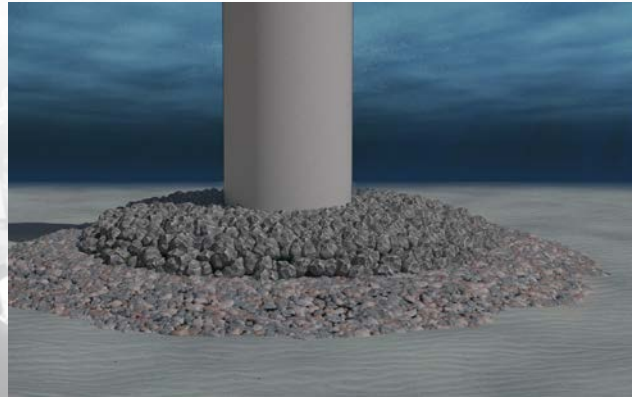


Hatchery facility (ReefGuard)
VanOord



Testing outplacement method
ReVIFES

Eco-Scour Protection



Benthic life –
fotograaf: Remment ter Hofstede



platte oester – fotograaf: Oscar bos

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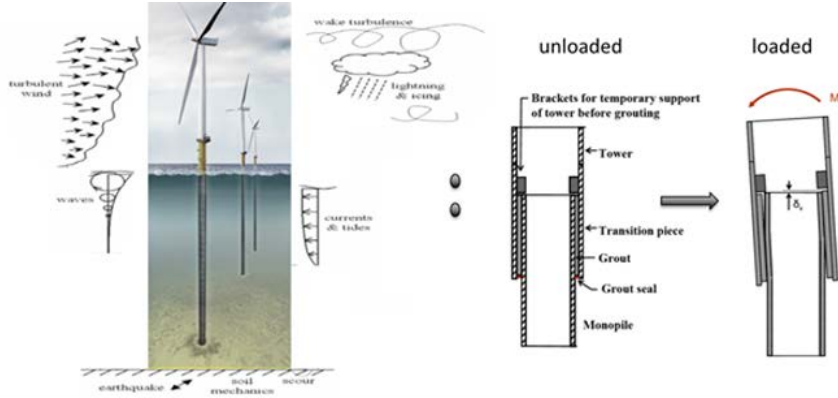
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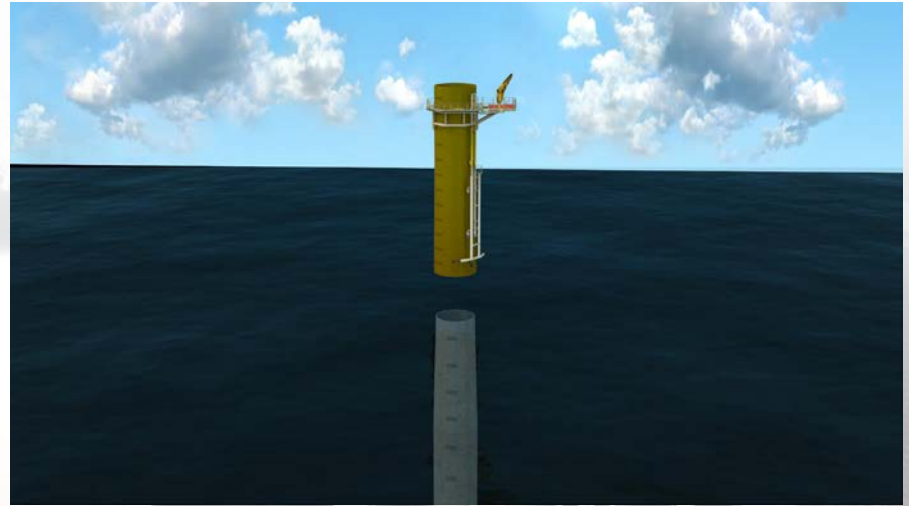
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Slip Joint



Slip Joint: No grout, No brackets, No flange, No bolts

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Partners in delivering innovations



Sif



Bureau Waardenburg bv

Adviseurs voor ecologie & milieu

Deltares

Enabling Delta Life



TU Delft

Delft University of Technology



CORROSION

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DNV-GL

TNO innovation for life



WAGENINGEN UNIVERSITY & RESEARCH



VAN GINKEL GROEP QUALITYWORKS



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Execution: 2020

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Thank you for your attention



TKI WIND OP ZEE
Topsector Energie

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