



PLACE AND PLUG

**WTG Offshore Installation -
Increasing Capacity while cutting Costs**

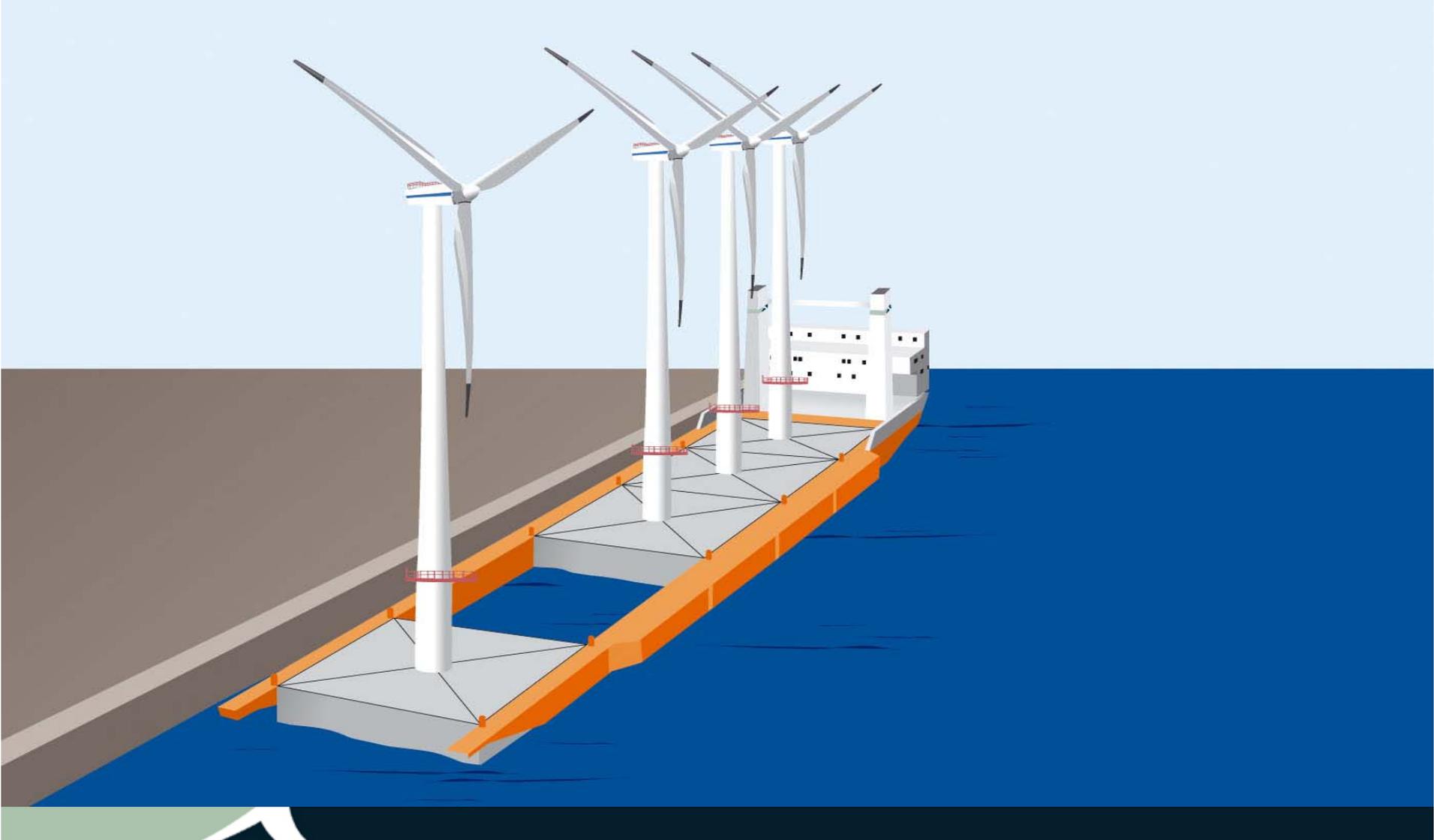
Copenhagen Offshore Wind
International Conference & Exhibition
October 27th

Agenda

Place and Plug Method

- Method Presentation
- Project Management
- Project phases
- Equipment
- Cost effectiveness
- Capacity
- Questions

PLACE AND PLUG Method



LOGIMA Project Management System



- Securing the overall project timeplan
- Project is carried out within the budget
- Possible at any time to have a project status during the process
- Strict control with documentation in a timely and manageable manner

- Breakdown of all processes in the project
- Overall Gantt chart with realistic time schedule
- Possible for all parties to follow the process 24/7

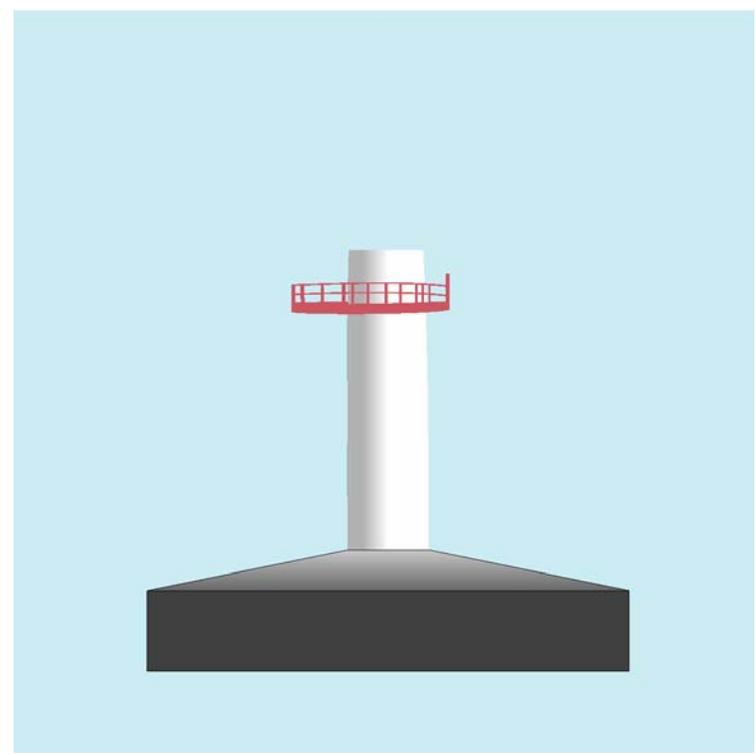
- Project management closely linked with the project setup and contracts with contractors and sub contractors



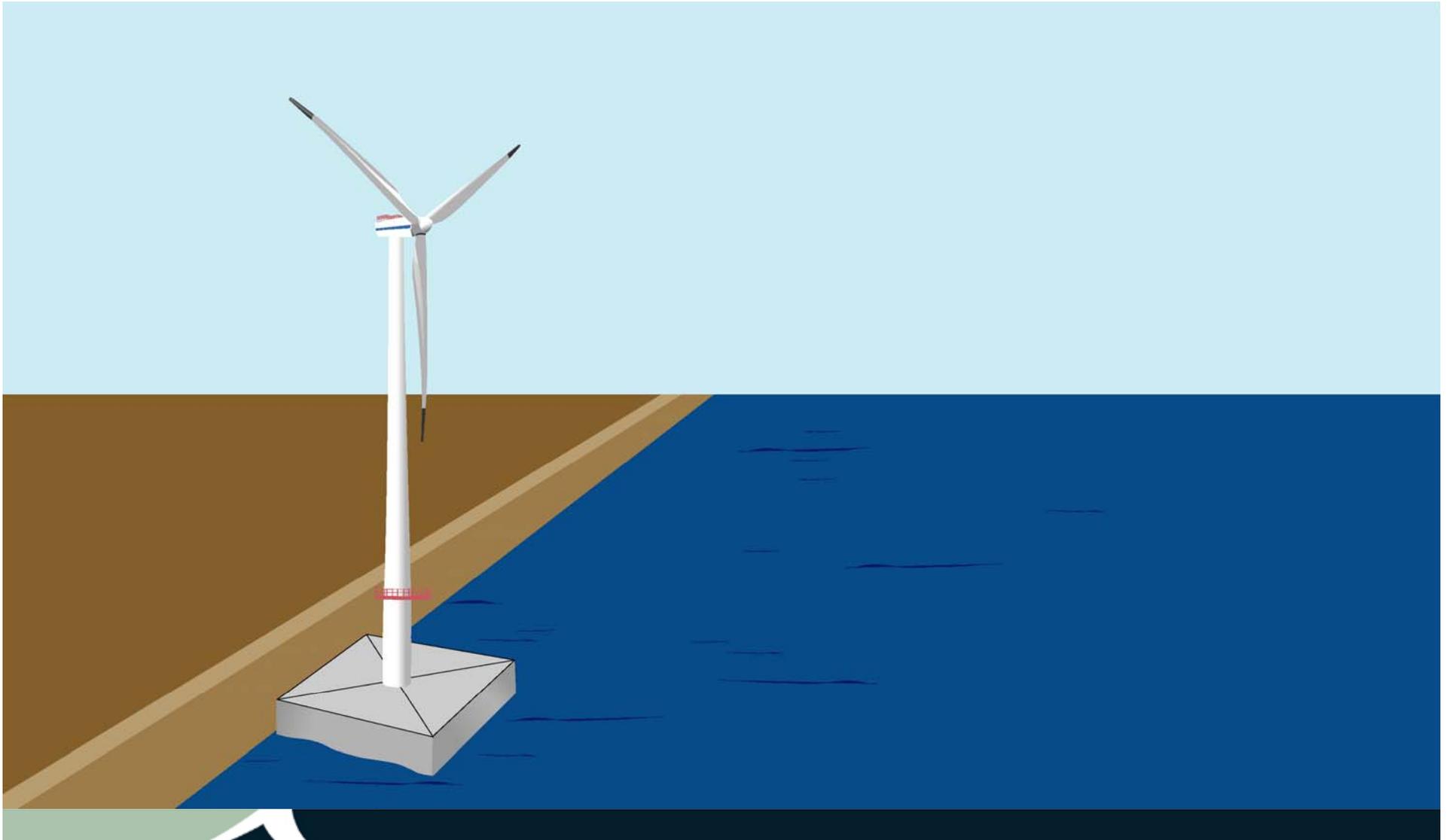
PLACE AND PLUG Method



PLACE AND PLUG
Gravity Foundation



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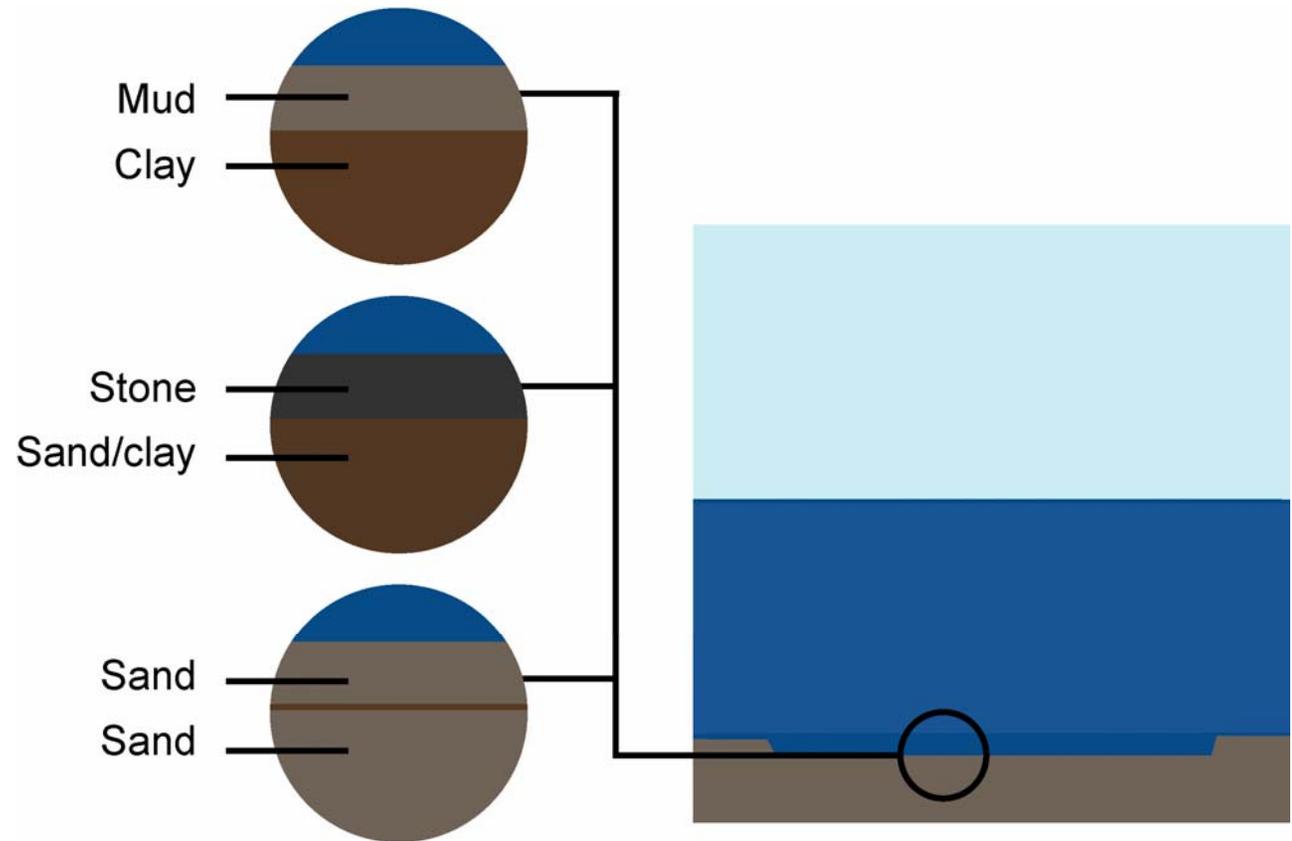
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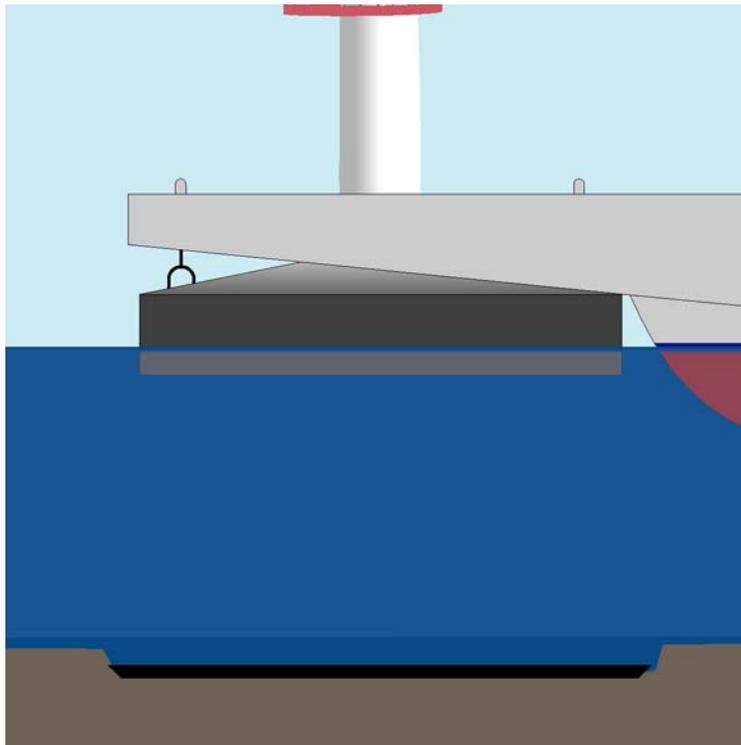
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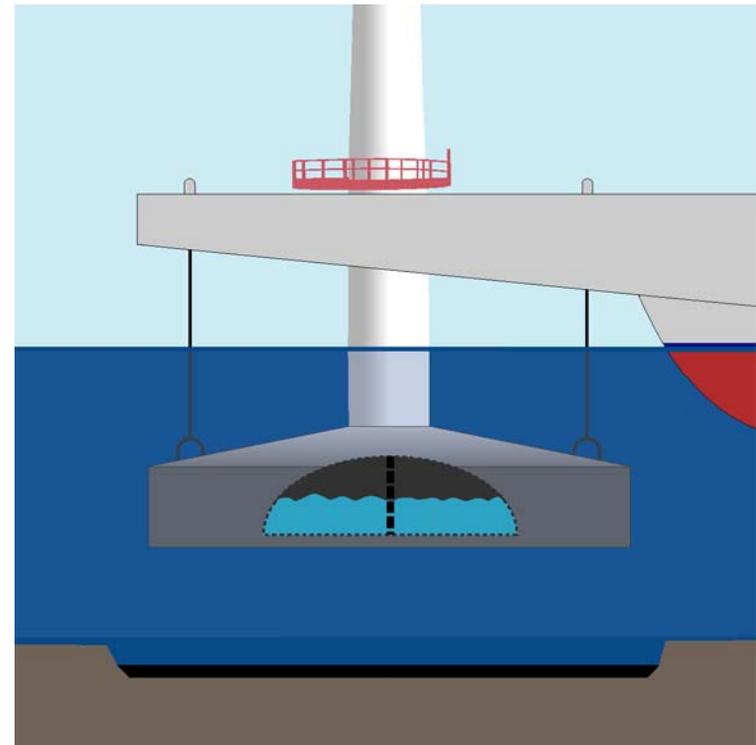
Coredrill & Bottom preparation



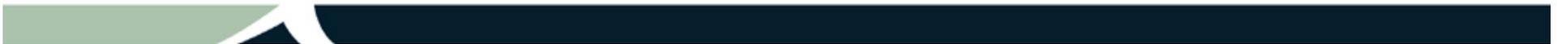
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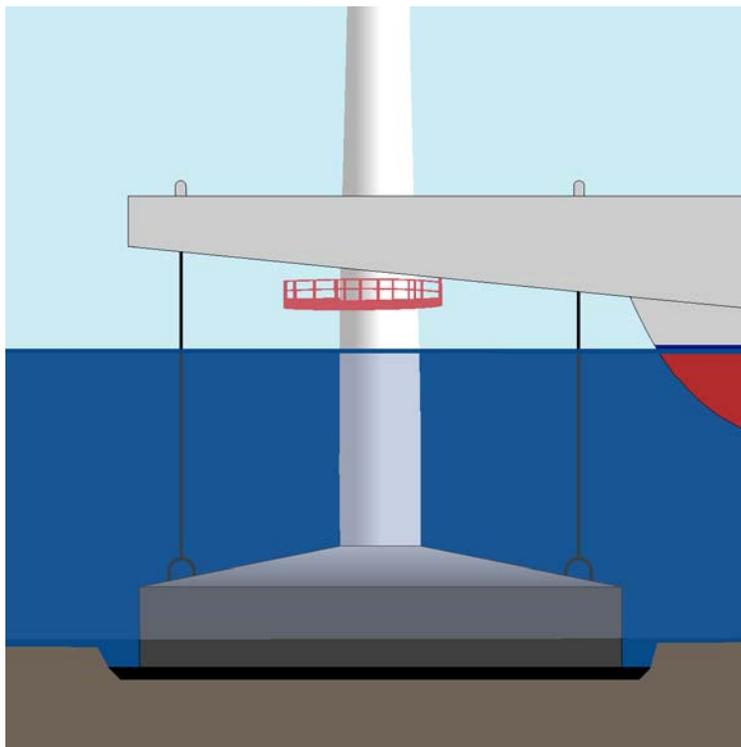
Positioning



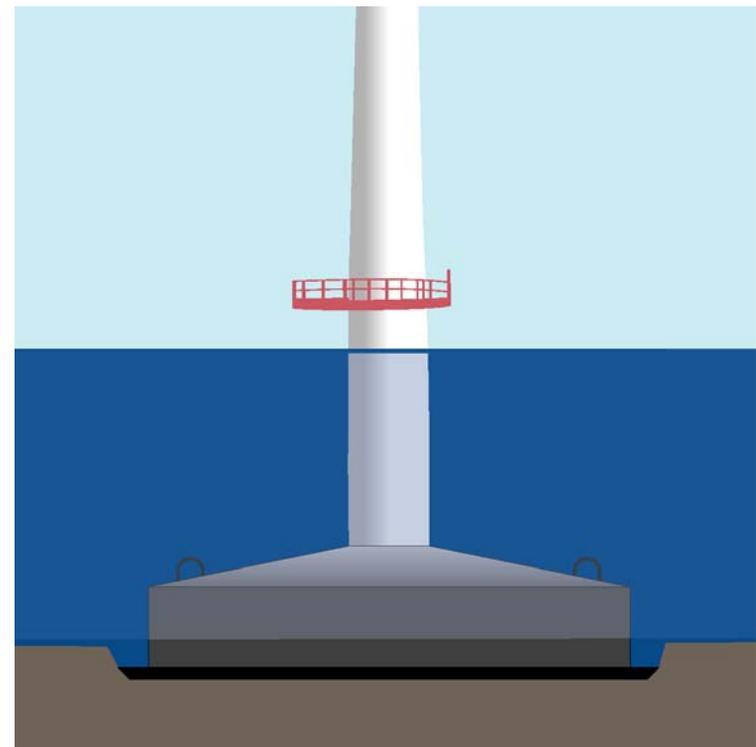
Lowering to Seabed



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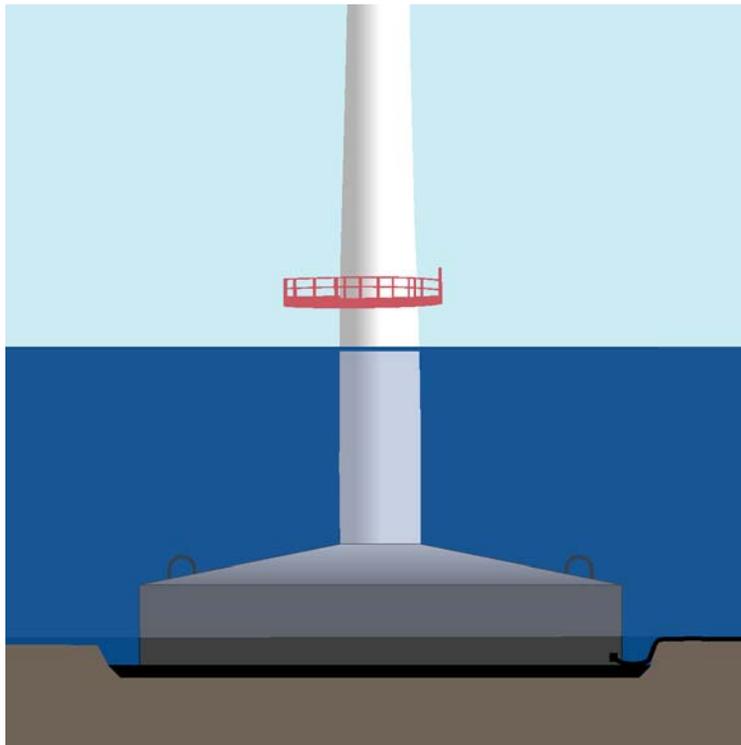
Releasing Wires



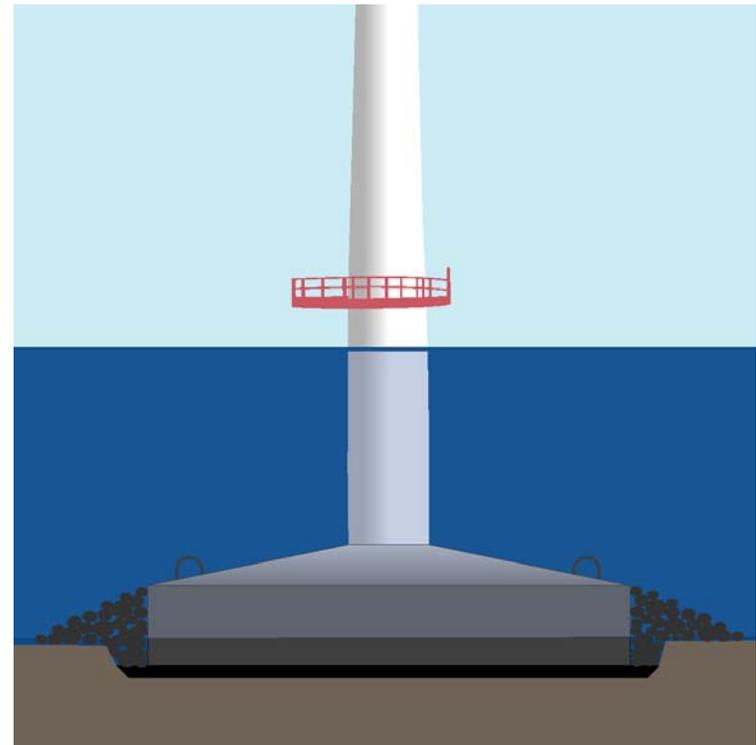
Final position



PLACE AND PLUG Method



Cable connection



Scour protection



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Opportunities

Waterdepth from 8 meters to app. 30 meters

Work offshore upto 2 meters Hs

Easy to adjust to ice class

Easy to remove / re-power

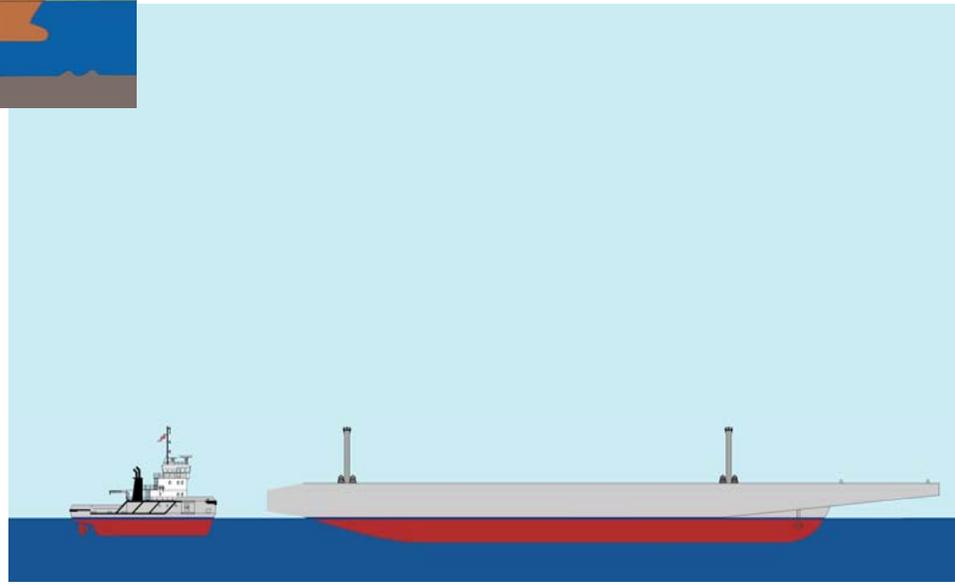
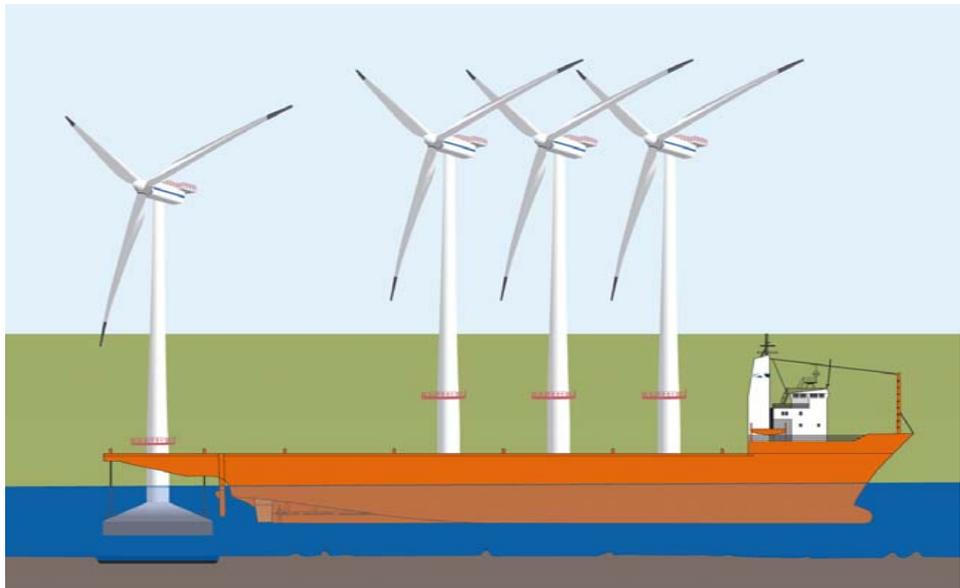
Big capacity – easy to adjust to new and larger turbines

Limitations

Shallow waters

Soft and unstable seabed

PLACE AND PLUG Equipment



Costeffectiveness

- Cost reductions
- Time offshore reduced to a minimum
- Avoiding the use of Crane Ships/Barges
- Simple technology and well tested methods
- Simple manufacturing of foundations
- Limited investments in equipment
- Turbine startup and operation during process



Capacity

- Future projects size
- Equipment capacities
 - Foundations
 - Port facilities
 - Offshore installation and construction

Questions Please ?

