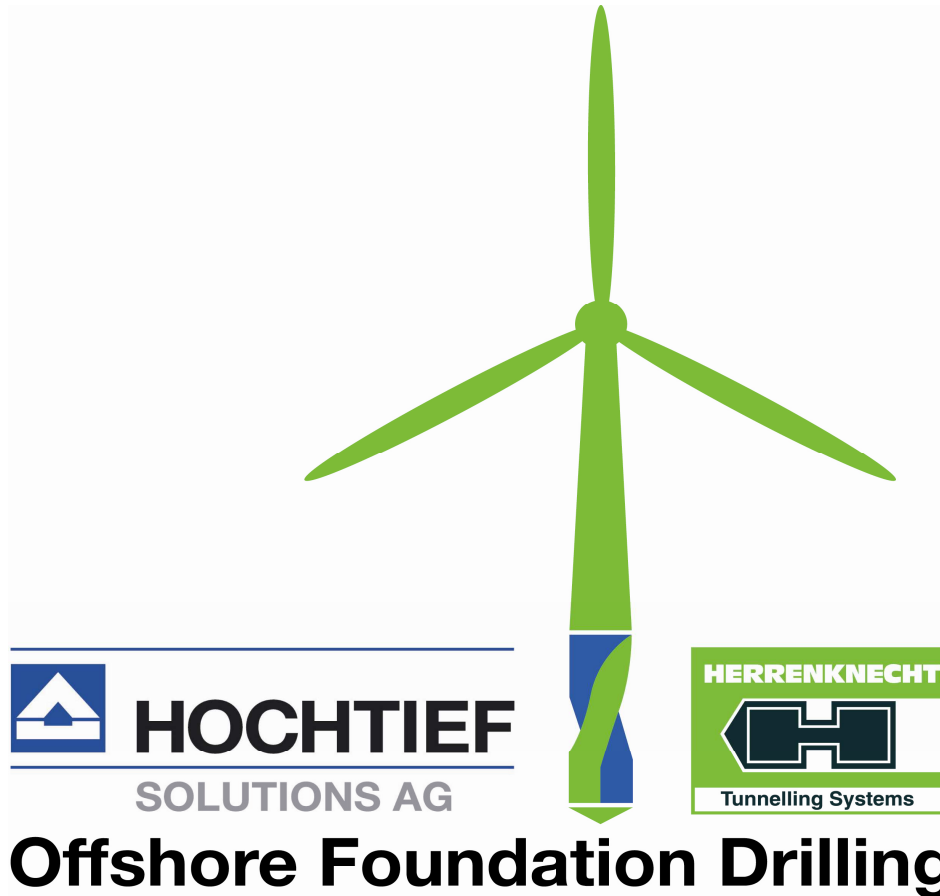


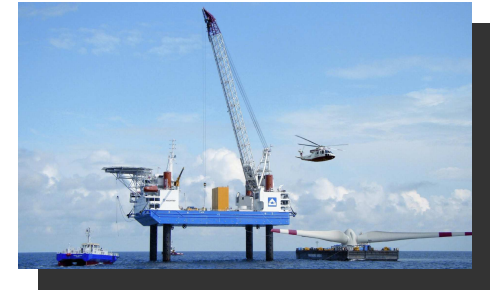
Offshore Foundation Drilling (OFD®)

An innovative system to drill offshore foundations

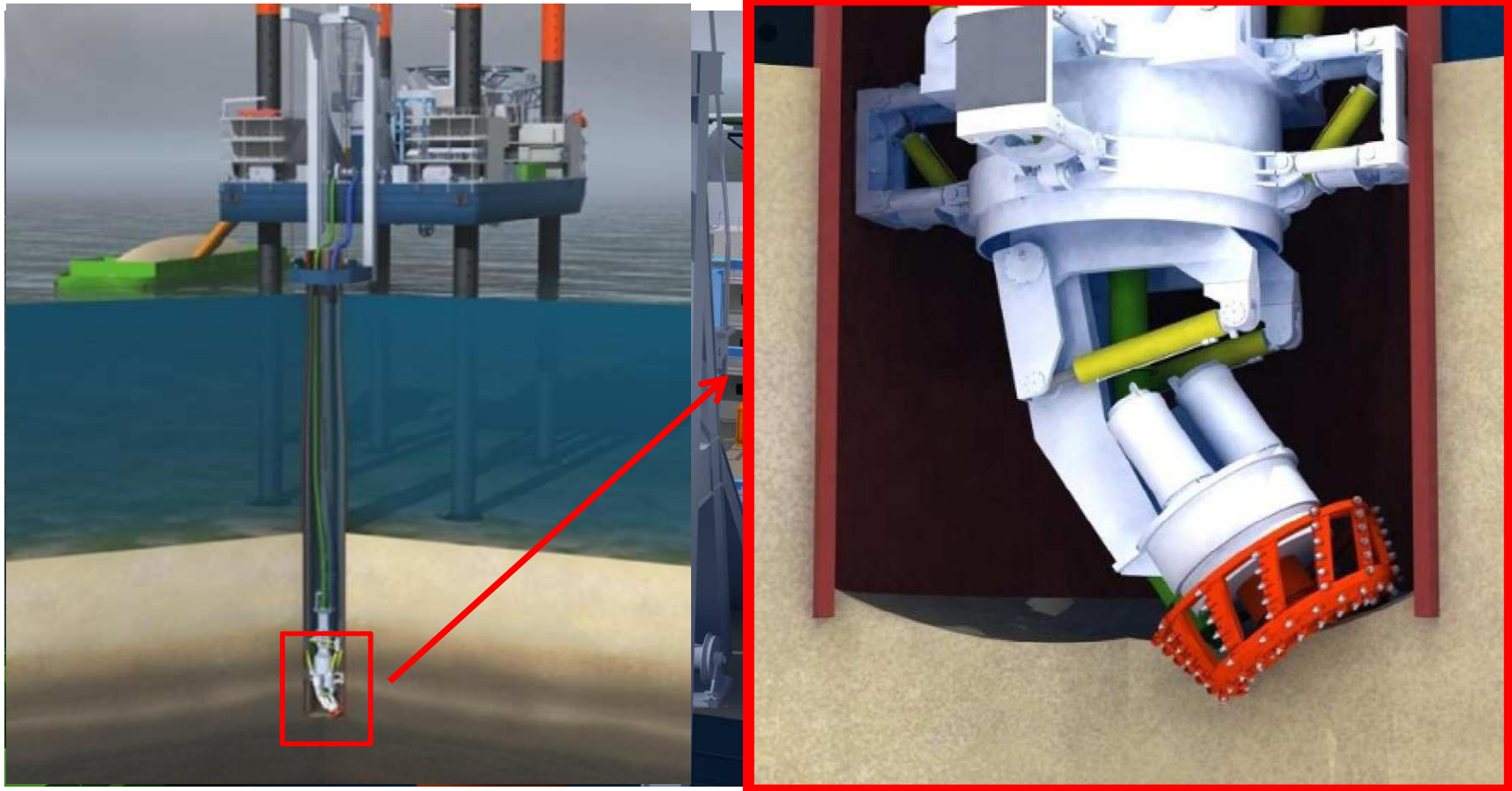


Offshore Foundation Drilling (OFD®) Cooperation of Experts

- HOCHTIEF Solutions AG
Civil Engineering Marine and Offshore (CEM) - Offshore Experts
e.g. Baltic 2, Global Tech 1, Horn Sea Met Mast
- HOCHTIEF Solutions AG
Civil Engineering and Tunneling (CET) – Tunneling Experts
e.g. Gotthard Base Tunnel, CrossRail, U4 Hamburg, XFEL Hamburg
- Herrenknecht AG
Business Unit Utility Tunnelling (BUUT)
worldwide leading manufacturer
e.g. world largest EPB-Shield, OFD-technology based on VSM technique



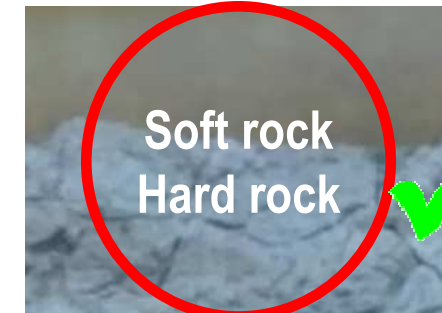
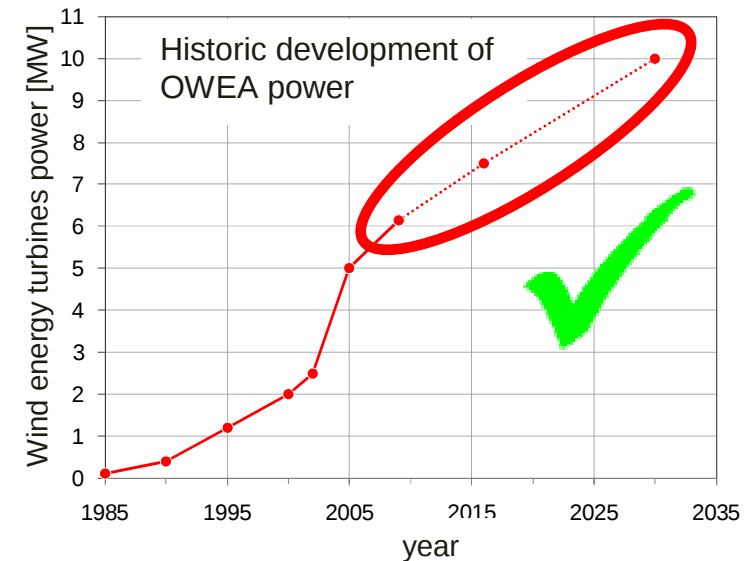
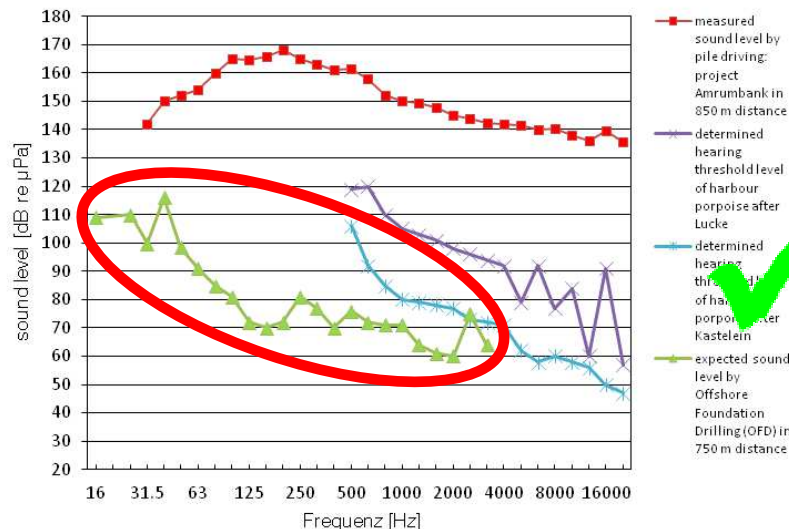
Offshore Foundation Drilling (OFD®) Construction Method



Offshore Foundation Drilling (OFD®)

Solutions for upcoming Offshore foundations

- large diameter for bigger offshore wind energy turbines ($d > 7,0$ m)
- sound reduction during installation (Germany < 160 dB re μ B(A) in 750 m)
- independent from geologic parameters



Offshore Foundation Drilling (OFD®)

Thank you for your attention!



 **HOCHTIEF**
SOLUTIONS AG

 **HERRENKNECHT**
Tunnelling Systems

Offshore Foundation Drilling