





Why remove offshore foundations completely?

- No ongoing liability for field owner
- Sustainable use of materials (metal recycling)
- No limitations for future use of the seabed
- Future removal of cut piles will be very expensive and more difficult



And last but not least:

- Good practice, clear up your mess!
 - Learn from the past, don't leave it for future generations



Seemed like a good idea at the time...



Now we're paying the price!



Who and where?

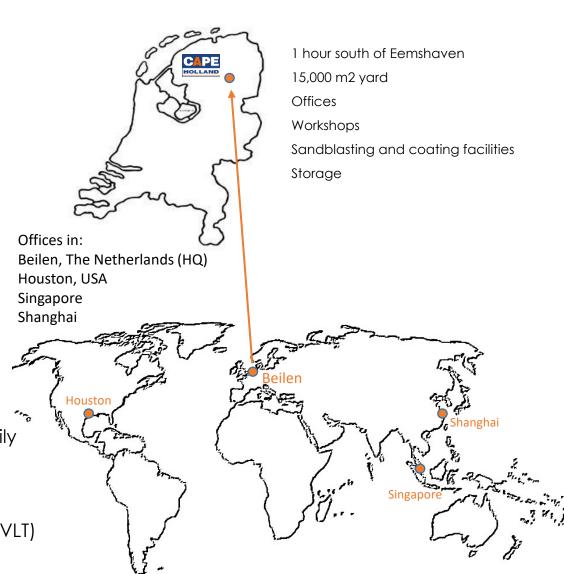


Established in 2002, run by 6th generation of Piling Expert Family

Global leader in Offshore Vibro Technology

Manufacturer of the only offshore certified Vibro Lifting Tool (VLT)

Offshore installation equipment and service provider





What is a Vibro Lifting Tool (VLT)?

Certified lifting and upending Vibratory hammer Base frame Hydraulic Clamping system

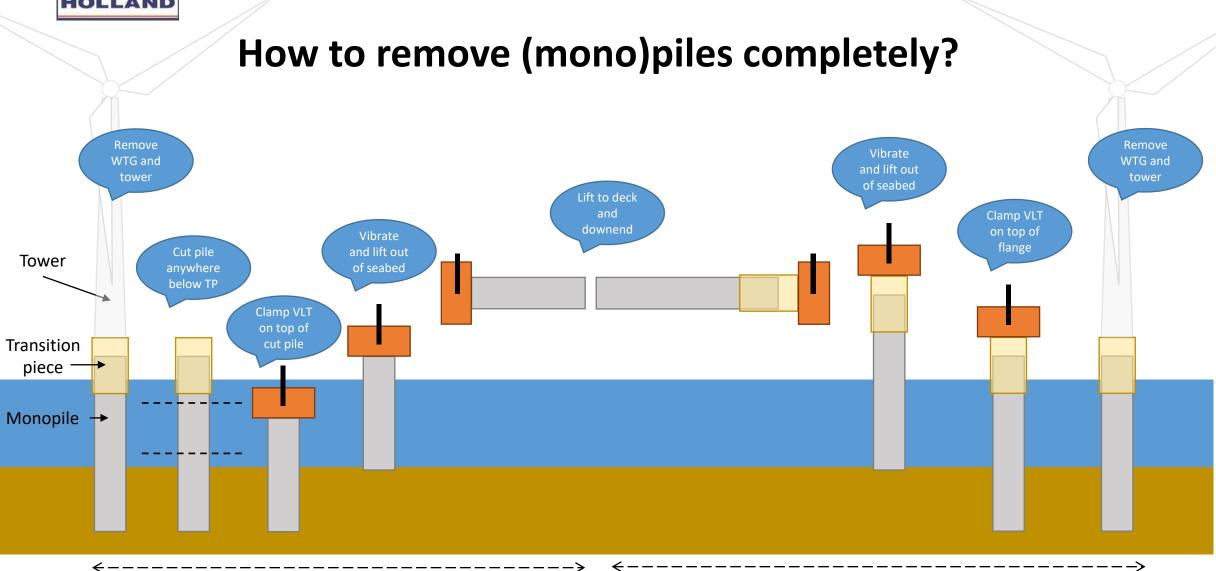
Hybrid vibro hammer and certified lifting tool

Under Lloyd's Register; Code for Lifitng Appliances in a Marine Environment (CLAME)

Scalable to very large XXL Monopiles

Commercial available product (TRL9)







Why use a Vibro Lifting Tool (VLT) for decommissioning?

Advantages

- Fast
- Little preparation
- Single operation from extraction to downending
- Little environmental impact
- Suitable for subsea

Disadvantages

- Requires heavy lift vessel with crane with sufficient lifting capacity
 - total weight of pile + VLT with an additional 10 to 20%



What is extraction used for already?

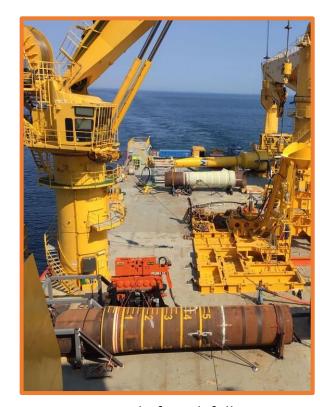


Removal of damaged piles



Large diameter soil sampling





Removal of stuck followers



What about monopile extractions?



2016 – DOT turbine test Ø4m, 1x extracted



2018 – SJOR project Ø4m, 2x extracted



2019 - MP on DP test Ø6.5m, 2x extracted



How does it work?







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