

REVOLUTIONIZING MOORING SYSTEMS FOR FLOATING WIND WITH THE FEPLA

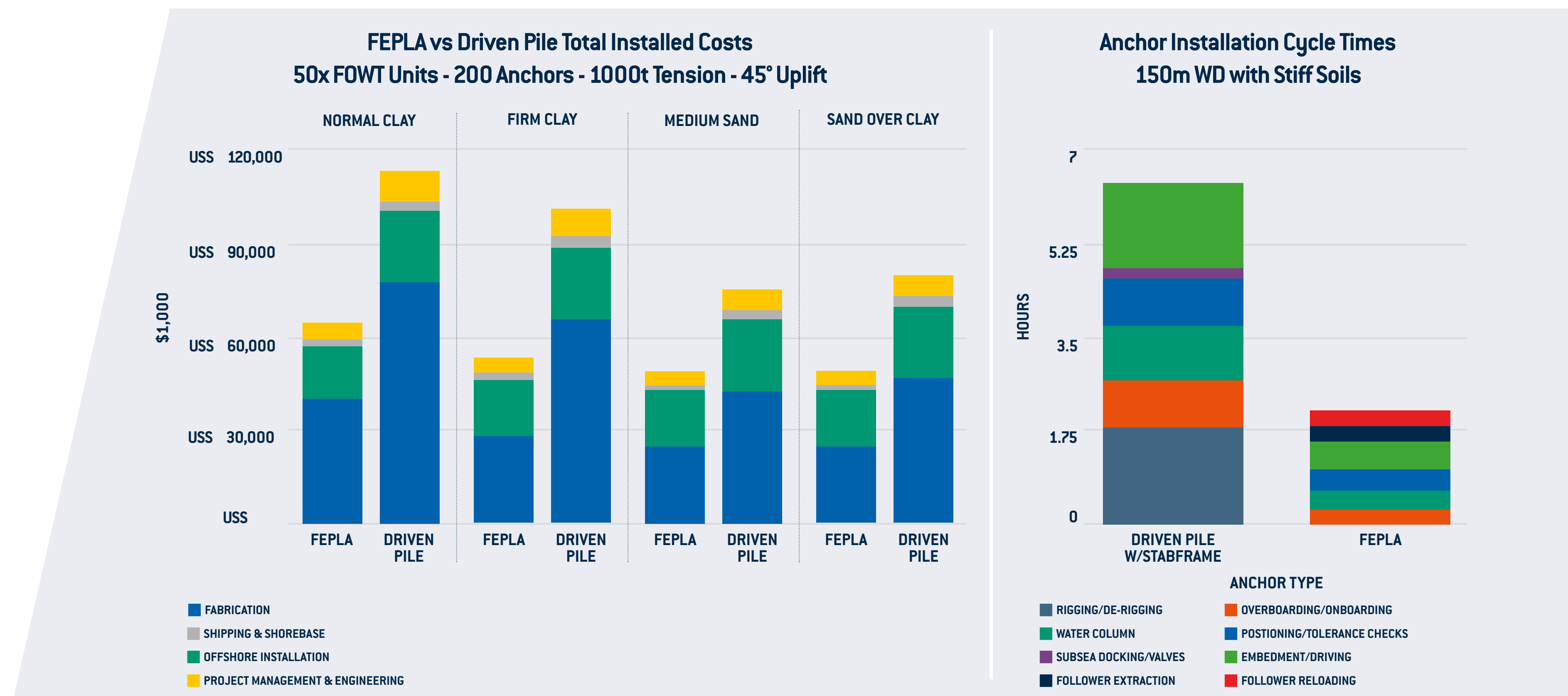


Introducing the most efficient and fastest industrial anchoring system

THE PROBLEM

A significant cost component of Floating Offshore Wind Turbines (FOWTs) is the mooring and anchoring system used to keep the structure in position. A substantial portion of mooring costs are the anchors. The floating wind industry needs an anchor that is

- Simple and cost-efficient to fabricate
- Easy to transport and install
- Suitable for a wide variety of soil conditions
- Vertical load capable
- Lightweight and material efficient



THE SOLUTION

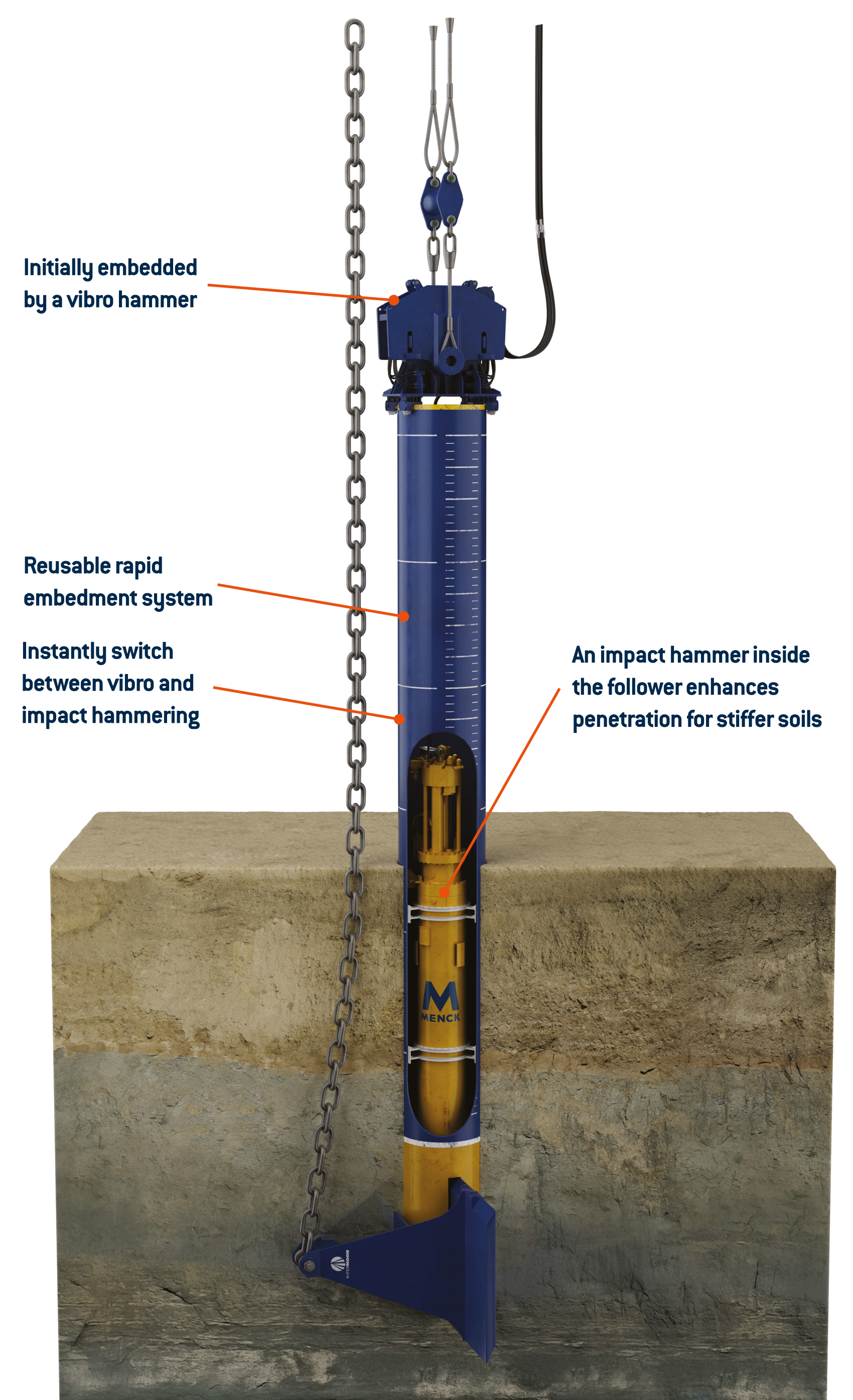
The Flexibly Embedded Plate Anchor (FEPLA) was developed as a plate anchor design featuring a reusable rapid embedment system suitable for almost any soil type. The system uses vibro-hammering and impact hammering for rapid installation.

The combination of methods makes it suitable for a wide range of soil conditions, flexible with varying soil layers, and reduces risk in the case of limited geotechnical data.

THE BENEFITS

- **50-70% lighter than an equivalent pile**
 - Smaller, simpler anchors enable local fabrication
 - Smaller size ease logistics and enables access to a wider pool of vessels
- **Total installed cost 30-50% lower than piles**
 - 30-50% faster installation time than piles
 - No anchor proof-loading / high-bollard pull necessary
 - Individual FEPLA can be installed in half the time of a pile
- **Soil versatile**
 - Suitable for a wide range of soil conditions
 - Flexible with varying soil layers
 - Reduce risk with limited geotechnical data
- **Less noise than driven piles**
- **Carbon footprint reduced by 60-70%**
- **High precision and capacity**
- **Removable at end of service life.**

THE INSTALLATION PROCESS



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