

Webinar on Installation and Marine Operations
15 June 2021

Experience from Full Scale Installation



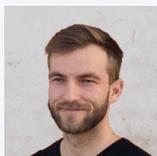
The Team



CEO,
Michael Henriksen



Lead Engineer,
Kristian Glejbøl



Head of Production,
Oscar Helmersen



Chairman of the
Board, Asger Kej



Gran Canaria Manager,
Noelia Pericon



CTO,
Steen G. Thomsen



Chief Specialist,
Martin von Bülow



Development Engineer,
Troels V. Lukassen



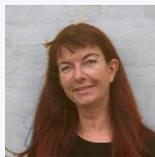
Member of the Board,
Torben Arnth Nielsen



Operational Coordinator,
Esther Capote Kerr



CFO,
Lars Bonnichsen



Head of Admin.,
Tina H. Christensen



Development Engineer,
Morten M. Jakobsen



Commercial Director,
Peter N. Svendsen



Technical Coordinator,
Alberto C. González

**11 full-time
2 part-time/freelance
2 professional board members**

83 shareholders

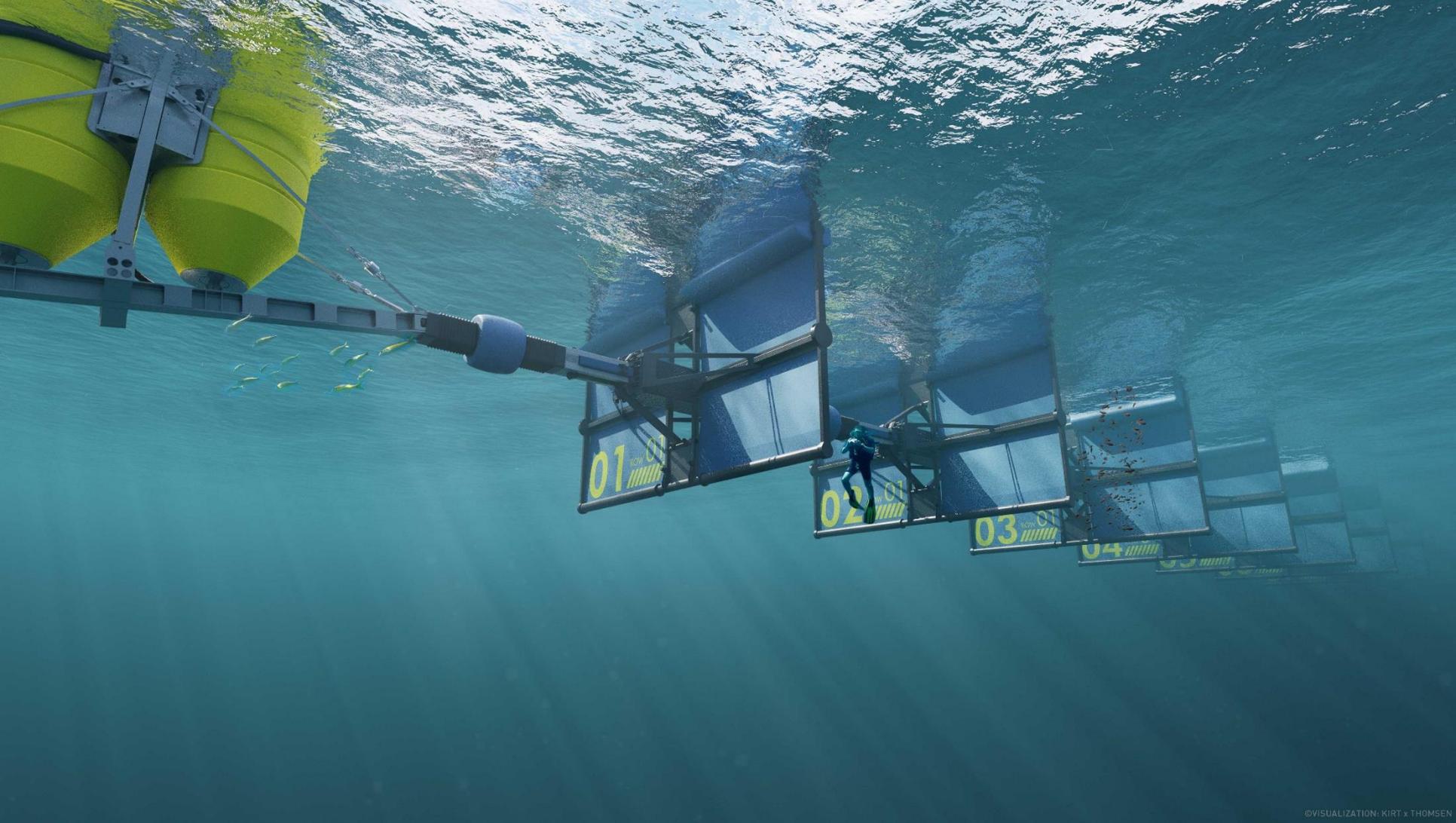




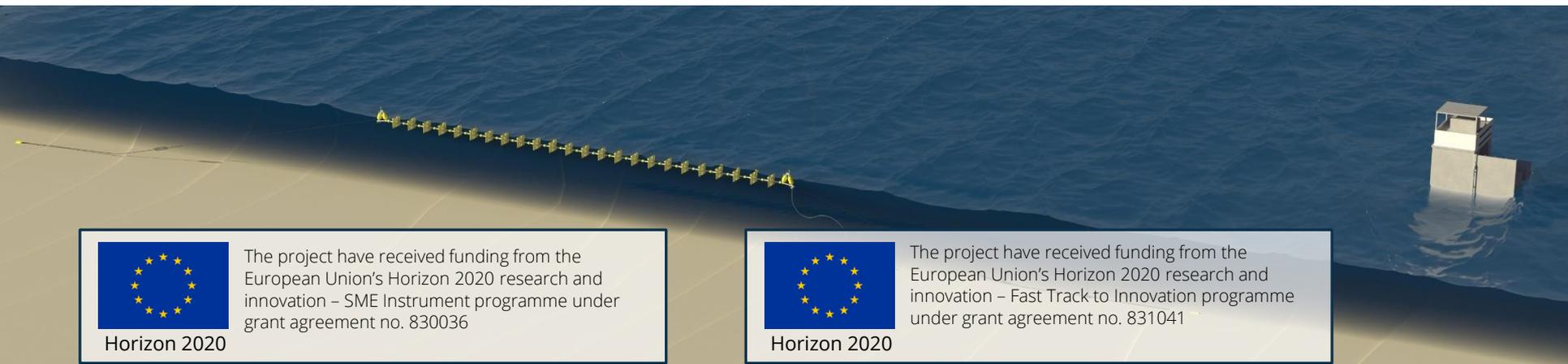
Renewable Energy



Fresh Water



Full Scale Pilot Projects




Horizon 2020

The project have received funding from the European Union's Horizon 2020 research and innovation – SME Instrument programme under grant agreement no. 830036


Horizon 2020

The project have received funding from the European Union's Horizon 2020 research and innovation – Fast Track to Innovation programme under grant agreement no. 831041

Competitive Wave Energy on Islands



2019 – 2022



EUR 3.8M



200 kW, 547,000 kWh/year

Wave to Energy and Water (W2EW)



2019 – 2022



EUR 5.2M



150 kW, 350,000 kWh/year (80%)
28,000 m³ water/year (20%)



Pre-Installation 2020 - 2021

Pre-Assembly and Assembly



Logistics



Final Assembly



Undocking



Undocking



Towage to Pre-Mooring



Pre-Mooring

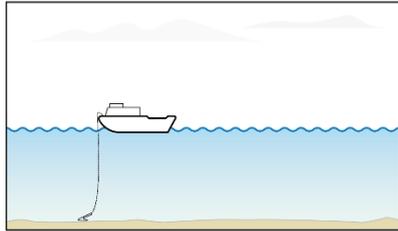


- Tug plan and approval
- Uncertainties on permission
- Available vessels

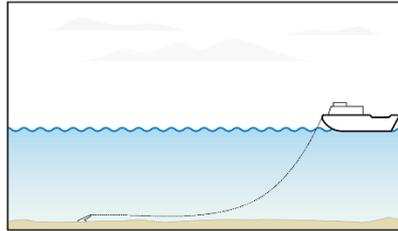


The PLOCAN System – Installation Storyboard

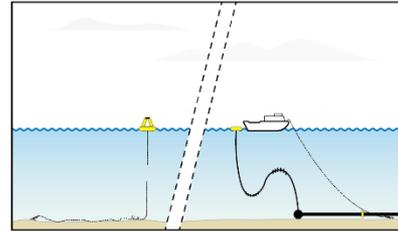
MOORING



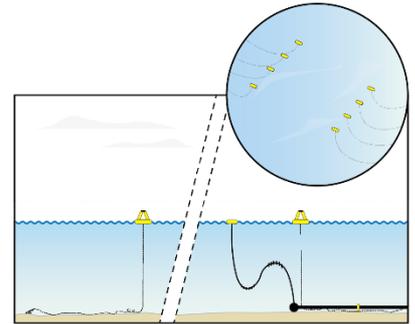
Outer anchor



Pulling

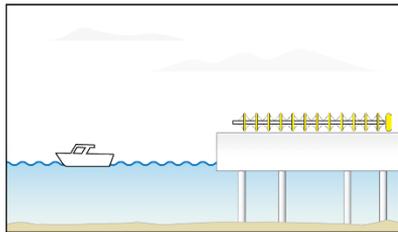


Inner anchor

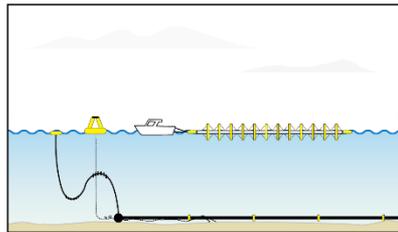


Both sides fixed & overview

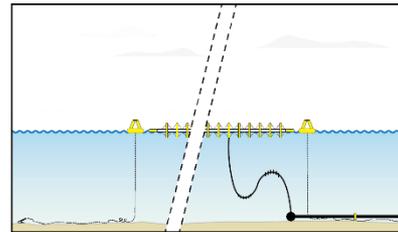
STRING



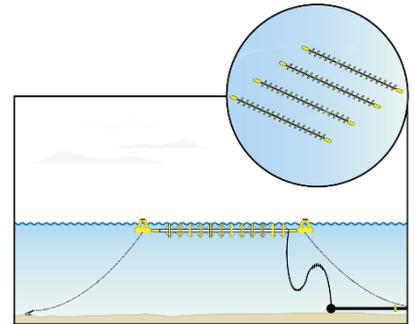
Harbour



Towing



Connection



Tension, riser hose & overview

Pre-Mooring



Mooring



Anchor Pull



Anchor Pull



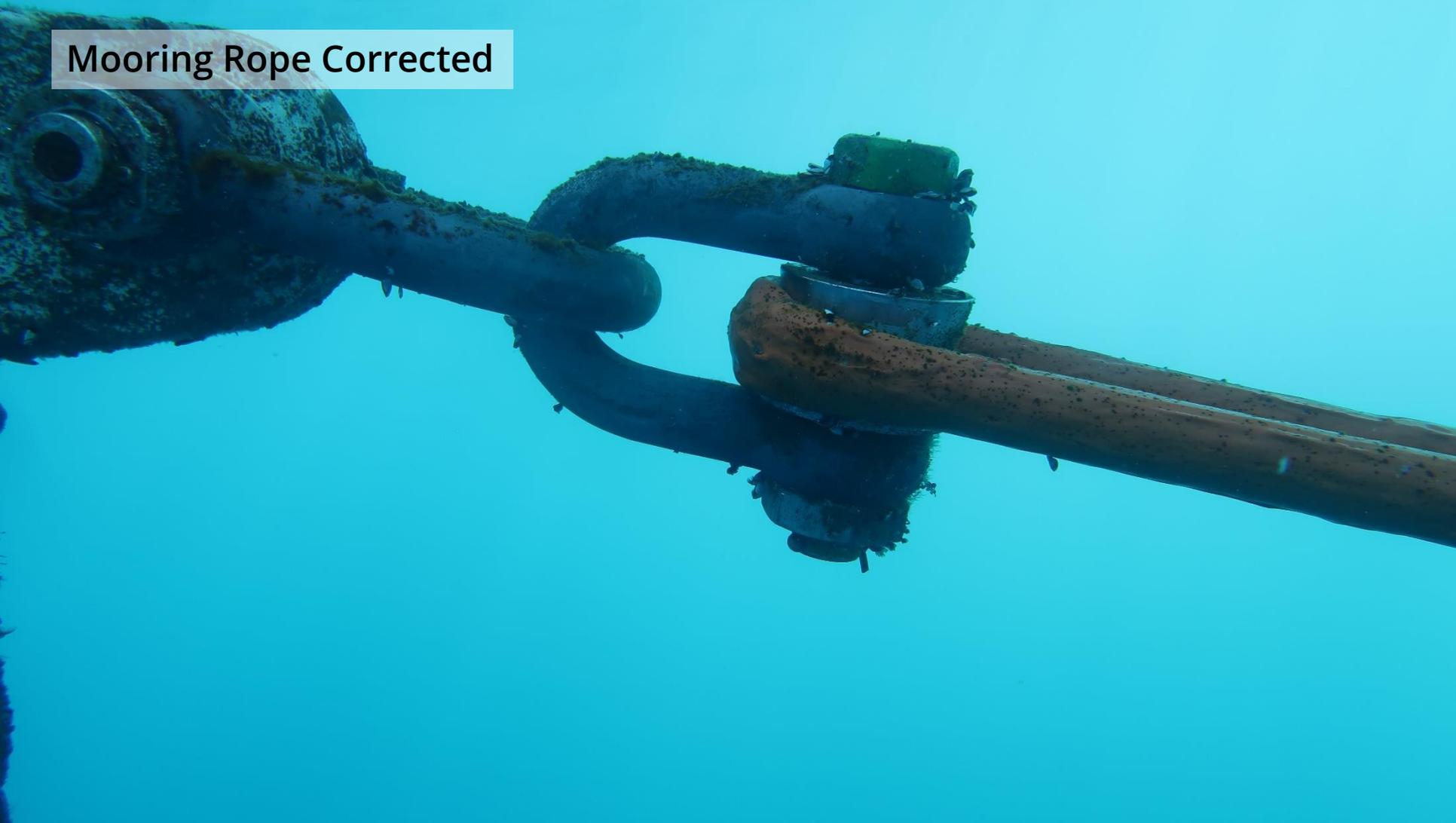
Mooring Rope Correction



Correcting Mooring Rope



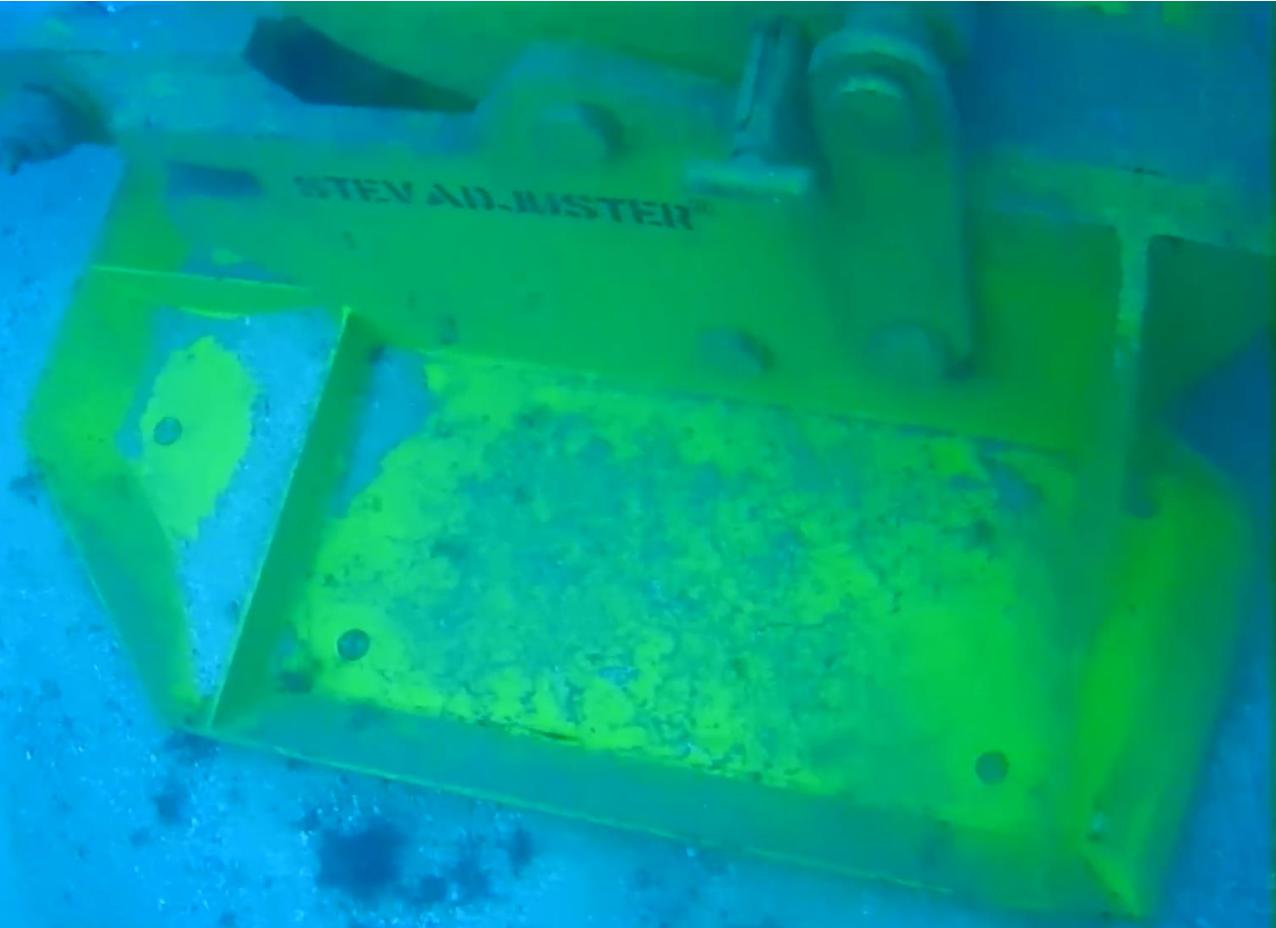
Mooring Rope Corrected



Tensioning



Tensioning



CAM01

Installed at PLOCAN



Disassembly



Disassembly



Biofouling



2 x full-scale installations 2021 – 2022



Experience Pre-Installation



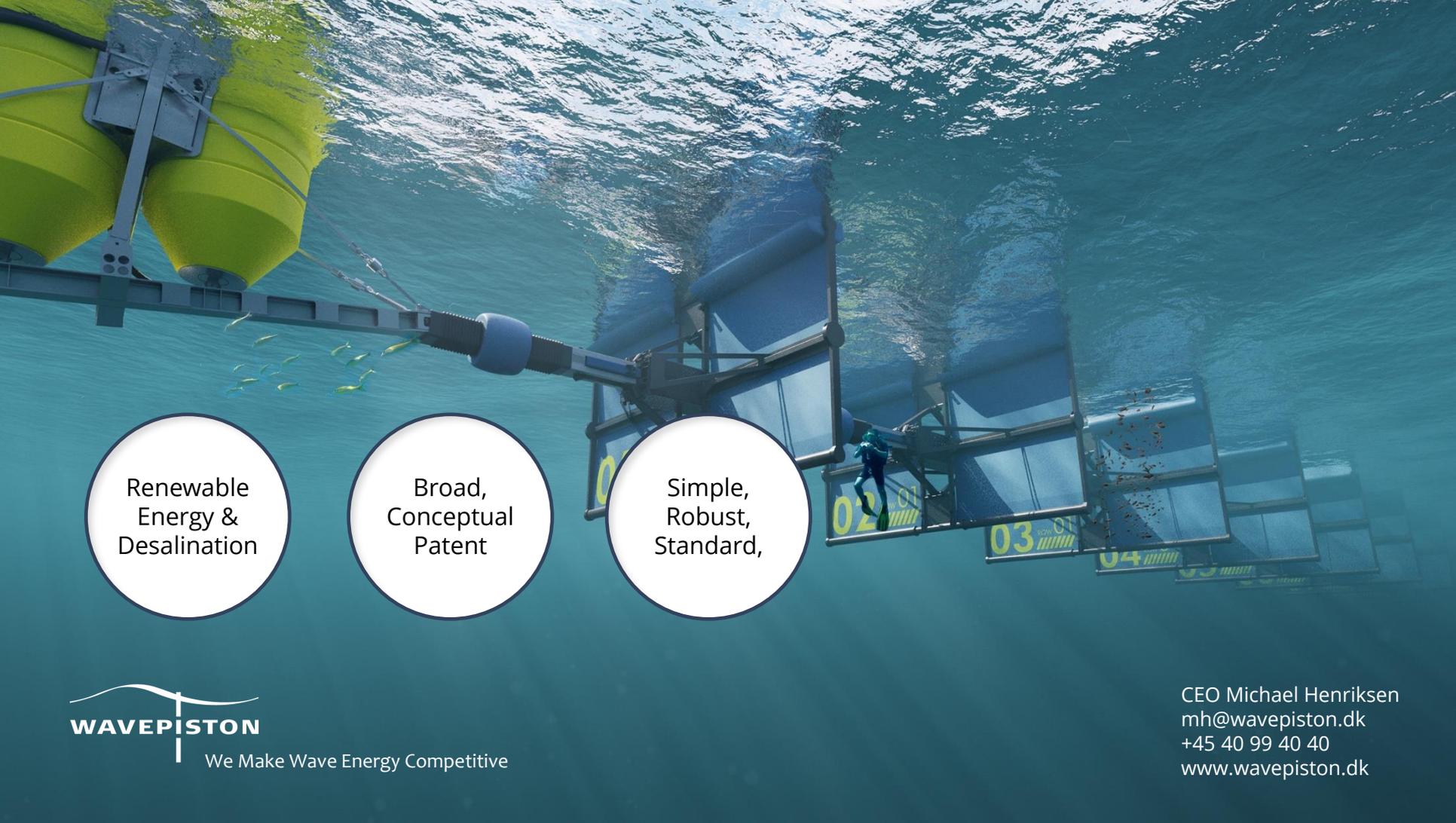
- Manufacturing
- Pre-assembly
- Logistics
- Assembly
- Installation



- Bureaucracy
- Limited availability/competition
- Isolated “island” and first mover
- “Underperforming” Material/Components



- Simplify installation
Avoid towage, attach/detach, tensioning
- O&M
Biofouling, attach/detach
- Material “Check and Trial”
FAT, trials, iterations



Renewable
Energy &
Desalination

Broad,
Conceptual
Patent

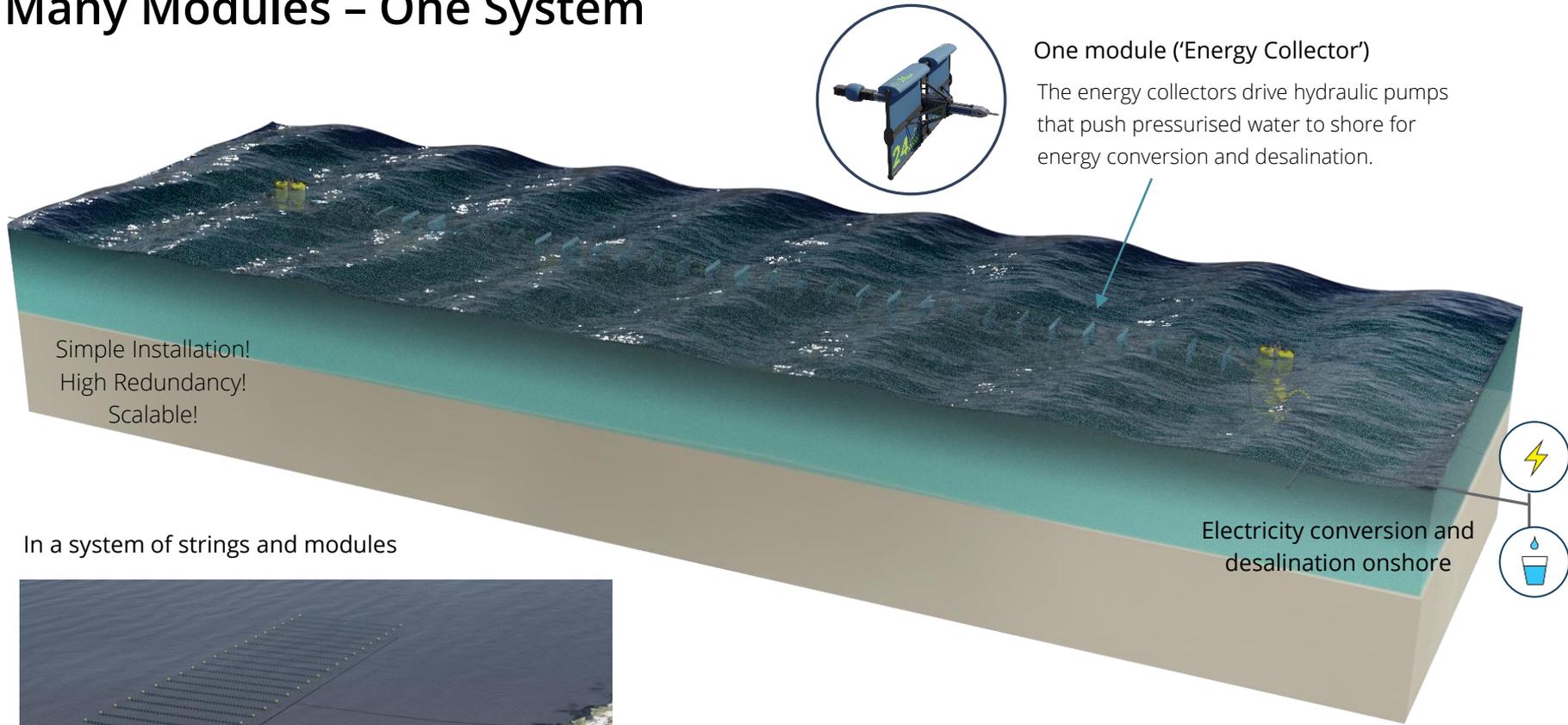
Simple,
Robust,
Standard,



We Make Wave Energy Competitive

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Many Modules – One System



In a system of strings and modules

