

Helping  
Wind Power  
Grow



# The Venterra Group

Venterra is a dedicated offshore wind energy services group. Our member companies engineer, build and support the operations of offshore wind energy developments around the world.

We provide project management and engineering **across the full offshore wind farm lifecycle**, from concept design to decommissioning. Between our member companies, our wide range of service lines encompass: **Advisory, Survey, Geoscience, Design and Environmental.**



ORDTEK



CAPE

FOUND OCEAN

NAVER  
ENERGY



INSPIRE  
ENVIRONMENTAL



# Our Build Services



SBIT

Bespoke Mission  
Equipment



Balltec

High-Load  
Connectors



CAPE

Vibro Lifting  
& Piling



FOUND OCEAN

Offshore  
Grouting





# Tailored solutions for offshore renewable energy.

## Overcoming the offshore challenges of today and tomorrow.

Our mission is to ensure our customers have the systems they need to carry out safer, faster, and more cost-effective offshore installation and maintenance.

For over a decade, we've been partnering with industry leaders to deliver engineering solutions in many technology areas, including foundation installation, lifting & handling, subsea burial, and cable installation.

Our range of services covers the full equipment life-cycle, from feasibility & FEED studies, to design & build, and through-life support.



## Accelerating industry progress with extraordinary equipment.

We provide support to a wide array of companies, with a particular focus on vessel and equipment operators, and offshore developers.

We craft custom solutions to meet the unique needs of each offshore project, ensuring that our support aligns seamlessly with your requirements.

At the core of our approach is owning it, being authentic, and bettering everything so that we can all succeed together.



## From concept to commissioning, and beyond.



Our capabilities cover the entire equipment life-cycle. We specialise in turnkey equipment packages, where all aspects of a system's concept development, design, build, commissioning, and support, are included.

To suit varied project needs, we also offer tailored packages based around any segment or combination of our core offering components:

- + Concept
- + Design
- + Manufacture
- + Assembly
- + Commissioning
- + Through life Support



# Build Capabilities

Engineering high-load connectors that save time, improve safety, and reduce costs on the world's most demanding offshore projects



balltec.com  
info@balltec.com



## Connecting your project

For almost 20 years our connectors have been the link in some of the most complex, heavy, and challenging offshore wind, decommissioning, and oil & gas projects around the globe.



### Offshore Wind

Through the supply of mooring, lifting and cable protection systems, we contribute to some of the world's largest offshore wind farms, both fixed-bottom and floating.



### Decommissioning

Our expertise in lifting and pipeline intervention is utilised worldwide on complex decommissioning projects benefiting from increased safety and efficiency.



### Oil & Gas

We provide unrivalled products and experience in the global oil & gas sector, providing innovative solutions to some of the world's biggest and most prestigious energy projects.

**1800+** products in use worldwide  
**320+** project locations  
**5000+** mT SWL  
**24hr** support

## Advantages

### Quick

60 second connect and disconnect

### Safe

Remote control and viewing



### Unlimited loads

Design allows for a flexible and unlimited load

### In-house testing

All products tested and serviced in our in-house facilities

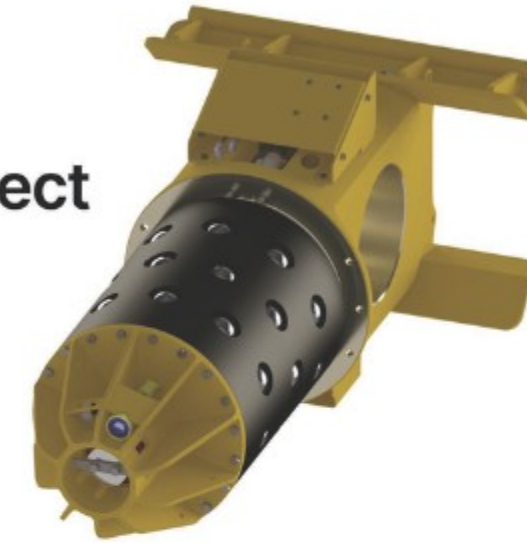
### Remote connection

Eliminate working from height





## The 2200 mT, Quick Connect LiftLOK Heavy Lift Tool



## Project Profile



**140+**  
Installations  
**5**  
Common  
Receptacles

**Location**  
Kust Zuid, Holland

**Connection**  
2500 mT shackle

**Customer**  
Seaway 7

**Connectors**  
Four



## Areas of work



### Mooring

The highest rated and most reliable mooring connectors in the world



### Lifting

Bespoke, quick connect, remote, light, compact, huge 5000 mT SWL.



### Cable Protection System (CPS) Connector

Diverless, quick install and remove with 1000+ installations and an integrated bend stiffener



### Pipeline recovery

High-integrity mechanical connectors for critical applications



Lancashire, United Kingdom

Unit 2B, White Lund Industrial Estate, Morecambe, LA3 3PB

## If you have questions, we will have answers...

If you would like to discuss a project in detail, feel free to get in touch with us



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# WE ARE PASSIONATE ABOUT PILING

WE CONTINUOUSLY IMPROVE THE PERFORMANCE OF PILE INSTALLATION AND REMOVAL: FASTER, EASIER, SMOOTHER AND MORE SUSTAINABLE. WE LOVE TO MAKE IMPACT AND CONTRIBUTE TO GOOD VIBRATIONS.

We want to be the world leading specialist for installation solutions for pile foundations with a distinctive portfolio of integrated technologies and knowhow.

In the search for alternative ways to make pile installation and removal faster, easier, smoother and more sustainable, the Vibro Lifting Technology has developed in leaps and bounds over the past decades.

## CAPE VIBRO LIFTING TECHNOLOGY

THE CAPE VLT

TODAY'S MARKET LEADERS ARE UNDER INCREASING PRESSURE TO MANAGE PROJECTS IN AN EFFICIENT AND RISK-FREE MANNER. CAPE HOLLAND HELPS ITS CUSTOMERS GAIN ADDED VALUE FROM PROJECTS BY OFFERING EXPERTISE, ADVICE AND SUPPORT AT EVERY STAGE.

OVER THE LAST DECADES, THE CAPE VLT HAS BUILT UP AN EXTENSIVE TRACK RECORD



# WHY WE LOVE THE CAPE VLT

## FAST

VIBRO DRIVING USUALLY IS A VERY QUICK WAY OF DRIVING PILES INTO THE SOIL. IT CAN BE UP TO 10 TIMES QUICKER, PARTICULARLY IN SANDS.



STAB

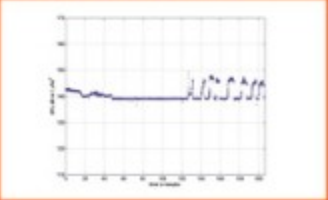
UPEND

DRIVE

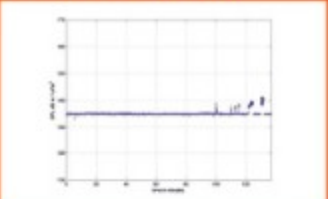
## SILENT

WITH VIBRO DRIVING, THE PILE IS NOT FORCED INTO THE SOIL BY HIGH ENERGY BLOWS, BUT ACTUALLY SINKS INTO THE SOIL BY GRAVITY DUE TO THE TEMPORARY REDUCED SOIL RESISTANCE AROUND THE PILE CAUSED BY THE VERTICAL VIBRATIONS. THIS MEANS THAT THE PILE DEFORMS LESS AND THEREFORE GENERATES SUBSTANTIAL LESS NOISE THAN IMPACT DRIVING.

SOUND LEVEL @750M IN CLAY



SOUND LEVEL @750M IN SAND



## ACCURATE

WHEN A PILE IS TRADITIONALLY STABBED INTO A GRIPPER OR INSTALLATION FRAME, IT WILL REST AGAINST THE SIDES OF IT WHEN THE UPENDING/LIFTING TOOL HAS BEEN RELEASED.



FREE HANGING INSTALLATION WITH VESSEL ON ANCHORS



FREE HANGING INSTALLATION WITH VESSEL ON DP



WATCH THE CAPE VLT ACCURACY HERE

ALL  
WAYS  
DRIVEN

# CAPE VLT APPLICATIONS

ALL  
WAYS  
DRIVEN

LET'S  
MEET

## RISK MITIGATION

SUDDEN FREE FALL OF PILES DURING IMPACT PILE DRIVING, SO CALLED PILE RUN OR DROP FALL, IS AN INCREASING CONCERN IN THE INDUSTRY.



NOT LEAVING PILE DISCONNECTED RESTING IN GRIPPER OF TEMPLATE/JACKET SLEEVE



NO TOOL CHANGE REQUIRED



WATCH THE RISK OF A RUNNING PILE HERE

## FLEXIBLE

LARGE RANGE OF CAPE VLT'S AND THE FLEXIBILITY TO COMBINE MORE UNITS TO CONFIGURE EVEN LARGE TOOLS. MODULAIR APPROACH.



GROUTED CONNECTIONS  
FLANGE CONNECTIONS  
SLIP JOINT CONNECTIONS  
C1 CONNECTIONS

WIDE RANGE OF PILE DIMENSIONS AND TYPES



CAPE VLT-80    CAPE VLT-160    CAPE VLT-320    CAPE VLT-640    TANDEM CONFIGURATION    TRIPLE CONFIGURATION    QUAD CONFIGURATION

### MONOPILE INSTALLATION



#### HOW DOES IT WORK?



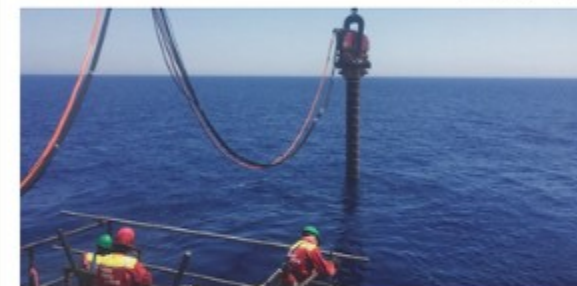
### PIN/JACKET PILE INSTALLATION



#### HOW DOES IT WORK?



### ANCHOR PILE INSTALLATION



#### HOW DOES IT WORK?



### DECOMMISSIONING



#### HOW DOES IT WORK?



We are passionate about piling; we continuously improve the performance of pile installation and removal: faster, easier, smoother and more sustainable. We love to make impact and contribute to good vibrations.

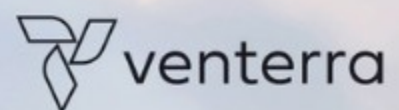


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CAPEHOLLAND.COM





### OFFSHORE RENEWABLES INDUSTRY

Europe continues to lead the offshore wind market, and so does FoundOcean - from the world's first jacket-based wind farm to our high-output grout mixers which have helped set records for super-fast installations of wind farm foundations.

Our 60 years of offshore experience and reputation for excellence make us the natural risk-free choice for your wind farm installation. Working with strategic partners and suppliers, we offer the latest range of cementitious materials for offshore wind farm grouting.



### FOUNDOCLEAN GROUTING

We have delivered more than 6,000 grouted connections for many of the world's well-known offshore wind farms and oil and gas platforms in regions including:

- Europe
- Middle East
- Africa
- Southeast Asia and India
- Australia
- North, Central, and Southern America

We gained our industry-leading expertise through our unmatched engineering resource, dedication to innovation and attention to detail. Our range of foundation grouting services includes:

- Pile grouting
- Monopile transition piece grouting
- Suction bucket grouting
- Rock socket grouting
- Underbase grouting
- Pressure grouting

### FABRIC FORMWORKS

We design and manufacture an extensive catalogue of fabric formwork grout bags, in both standard and custom shape, size and volume.

These are installed by ROV or divers, and have been deployed for both pipelines and cables, offering a range of solutions including:

- Stabilisation
- Support
- Separation
- Protection
- Scour prevention and rectification

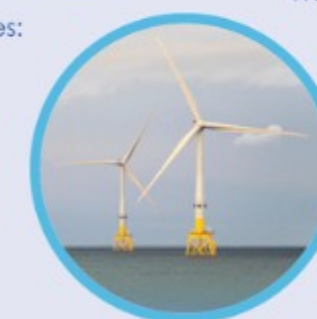
### LIFE EXTENSION SOLUTIONS

Structural strengthening, modification and repair (SMR) to existing jacket structures can be required for various reasons including remedial action resulting from routine inspection, mechanical damage, design/fabrication defect, provision of additional conductors, or life extension.

We have worked with the offshore construction sector to design, develop and deliver the technology to provide cost-effective strengthening, repair and modification solutions to ageing or damaged assets.

Our range of life extension solutions includes:

- Foundation strengthening
- Foundation stabilisation
- Repair clamps
- Freespan correction
- Scour rectification



### FOUNDOCLEAN ENGINEERING

Along with other Venterra Group companies, we offer a turnkey solution that addresses the growing needs of the global SMR market. This includes structural analysis and the design, fabrication and installation of the solution.

The Venterra Group collaborative engineering team has in-depth knowledge of structural behaviour and that is why we have a diverse range of strengthening and repair techniques.

We have a demonstrable record of designs for grouted, mechanical and neoprene-lined repair clamps, repair sleeves and member and joint grout filling, as well as other repair technologies.

We have successfully completed over 6,000 grouted connections for numerous offshore wind farms and oil and gas platforms worldwide.



We have provided subsea grouting services since

1966

We have worked on almost

1,000 offshore projects worldwide

*The grouting operations went very well and because of FoundOcean's vast offshore experience any problems they came up against were dealt with swiftly, effectively and professionally.*

Project Engineer, Scaldis

*FoundOcean came up with an extremely innovative solution that proved to be very efficient and cost-effective, with the project running smoothly and professionally executed.*

Client Project Engineer, TAQA

Subsea and Offshore Grouting for the Global Energy Industry



**SUBSEA AND OFFSHORE  
GROUTING FOR THE  
GLOBAL ENERGY  
CONSTRUCTION INDUSTRY**

**TRUSTED**

We continue to be the preferred global grouting partner for offshore energy construction, and the provider of life extension solutions for offshore assets.

**PROVEN**

Since 1966 we have safely and successfully delivered more grouted connections around the world than any other offshore grouting contractor.

**RELIABLE**

Working with strategic partners, you can be sure that your project is in safe hands with our unmatched engineering resource and attention to detail.

**ADAPTABLE**

Always adopting a flexible and positive approach, we pride ourselves on being able to work smartly and react swiftly in a changeable environment.

**SAFE**

We fully understand the importance of working safely, without harm to the environment and with excellent project and contingency planning.

You can trust that we have implemented the necessary internal processes to meet the rigorous requirements demanded by the offshore industry.



**HEALTH, SAFETY & ENVIRONMENT**

We are committed to maintaining a conscious culture around health, safety and the environment. We apply this to every aspect of the business to prevent harm to our people and the environment in which they work.

The company continually strives to identify and eliminate all foreseeable hazards and minimise the probability of incidents resulting in personal injury, illness or damage to property or the environment.

Our incident- and injury-free strategy is centred around a multi-layered learning and development programme, embedded employee wellbeing culture, and by focusing on building a sustainable business for the future.



**QUALITY ASSURANCE**

FoundOcean has been DNV-accredited to ISO 9001 Quality Assurance standards since 2006. We undertake extensive grout testing procedures to guarantee the quality of the material that we mix and pump, both during offshore projects and onshore trials. By standardising our processes, we manage our work more efficiently and reduce project risks. Our people use these standards themselves on a daily basis, and train new staff to use them too. Regular audits help us continually adjust and improve our approach.

All company policies are reviewed annually to monitor effectiveness and to ensure that the process of continual improvement is maintained.



**HEAD OFFICE**

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**GENERAL ENQUIRIES**

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**TECHNICAL ENQUIRIES**

technical@foundocean.com

# Our Global Footprint

- Across our service lines, we have developed a plethora of experience working on projects globally across 30+ countries, including within regions: **US, UK, Europe, and APAC.**
- To support our extensive project experience, we have a strong in country presence, with Venterra offices and personnel spanning between **15 countries.**



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