

MOOREAST

Anchoring the future of renewables





The leading mooring solution specialist.

Since our inception in 1993, Mooreast continues to provide world class mooring expertise across the offshore energy sectors.

As the world's largest manufacturer of ultra-high-holding power anchors and turnkey mooring solutions provider, we offer a range of services in-house, including geotechnical interpretation, mooring design engineering, fabrication, supplies, logistics as well as installation and commissioning support services and personnel.

In 2013, after having successfully implemented projects across Asia Pacific, the Americas, the Middle East and Europe, we extended our focus into the offshore floating renewables markets. As the world transitions to renewable energy sources, Mooreast, with our diverse range of expertise and capabilities, can provide critical solutions to address key challenges, enabling developers globally to successfully overcome barriers.

We've been doing this for almost three decades. Our steadfast expertise means we can focus on the future. By 2025, the world's renewable energy generation is set to exceed non-renewables. We serve this vision by providing critical sectorial solutions that enable organisations to overcome barriers and limitations.

Riding the winds of change.

There is an urgent need for industries around the world to mitigate climate change and reduce greenhouse gas emissions. Wind power, which is recognised as a scalable and largely available resource, can provide a sustainable and environmentally friendly alternative to fossil fuels.





Wind processes electricity by converting the kinetic energy of air in motion into electricity. Wind energy is a proven technology that has scaled rapidly over the past decades to significantly increase power generation of this low-carbon energy. This upscale in turbines has caused wind farms to move from further offshore to tap into the larger and more consistent wind resource.

With our experience and proven track record in supporting floating offshore projects globally, Mooreast is well positioned to solve energy transition challenges faced by the industry across Asia, Europe, The Americas and emerging floating offshore wind markets.

Since 2013, Mooreast has been spearheading the transition to renewable energy. As demand grows, developers and producers of renewable energy require mooring experts that can provide commercial manufacturing for global floating offshore wind markets and territories on a commercial scale.

That is why, at Mooreast, we offer products and solutions that meet the challenges of floating renewable markets. Coupled with the world's largest manufacturing capacity, Mooreast's mission is to be the world's preferred partner for mooring solutions.

- We build strategic presence around the world to cater to local needs
- Establish early engagement with developers and project contractors
- Provide R&D engineered solutions and specialised products
- Provide end to end mooring solutions

Company milestones:



Porting 30 years of mooring expertise in oil and gas to the renewable sector.



Since 2013, we have participated in pilot projects focusing on floating wind farms globally.



We have developed innovative mooring solutions catered to the floating renewable sector.



We've built key relationships with major players around the world, including the UK, France, Korea, Japan, Taiwan and the USA.

Total mooring solutions. Design, fabrication and installation support services.

We assist customers at every step of the way, from detailed concepts and FID proposals to final levels of installation.



Geotechnical and geophysical interpretation, design optimisation on a range of best suited subsea foundations, wind and wave interpretation, as well as mooring design and engineering.



Full mooring equipment package, including engineered products and customised fabrication such as ultra high holding power drag embedment anchors, driven piles, suction piles, dual axis or conventional chain stoppers, In-line tensioners, subsea or surface buoyancy.



Project supply chain management, production scheduling, quality control and assurance, inspection and acceptance testing, logistics planning, documentation and HSE management.



Geotechnical and geophysical solutions

Analysis and interpretation of soil conditions.

Analysis of the natural world and its geography plays an extremely important role in establishing subsea foundation solutions. We support our customers in every step of the process.

- Interpretation and scientific analysis of soil data
- Accurate selection of anchoring device
- Recommendations for successful installation
- Detailing anchor specifications



Design and engineering solutions

Value add, solutions based engineering.

We believe in partnering with our clients from the outset. Through detailed understanding of their requirements, we design customised and innovative solutions to fit their specific project needs.

- Customised mooring solutions and engineering
- Specialised mooring equipment such as chain stoppers and tensioners
- Bespoke equipment design



Fabrication, seamless integration and supply solutions

Creating mechanisms of change.

We fabricate and manufacture components, and seamlessly integrate with specialised manufacturers to ensure that clients are offered the finest solutions adapted to their needs.

- Fabrication of high-holding power anchors, chain stoppers, tensioning jacks, and buoys
- Supply of mooring lines – chains, ropes, and connectors



Logistics, mobilisation & installation and commissioning solutions

Component transportation to project completion.

Our expertise expands to the very end of the project. We take care of the logistics, and mobilisation of components. We also offer specialised technical assistance in the installation of mooring systems.

- Logistics and transportation
- Lifting and rigging products and solutions
- Installation and commissioning
- Tensioning and installation tooling

Designed and fabricated to meet the needs of floating renewables.

Backed up by our experience in mooring and rigging.



Anchors

We supply designed MA5, MA7 and MA9 drag embedment anchors used in various applications with classification authorities. The anchors, used for temporary and permanent mooring, are suitable for the widest range of soil conditions with the highest weight to strength ratio among subsea foundation types.



Buoys

From mooring buoys to surface buoys, we have developed our own design and provide standardised types and special designs to fit every project. Typical systems considered are CBM and Admiralty moorings.



Rental

A rental fleet of anchors, buoys and mooring lines is available for immediate supply and special design equipment will be considered upon request. We also offer the equipment on a lease/purchase basis.



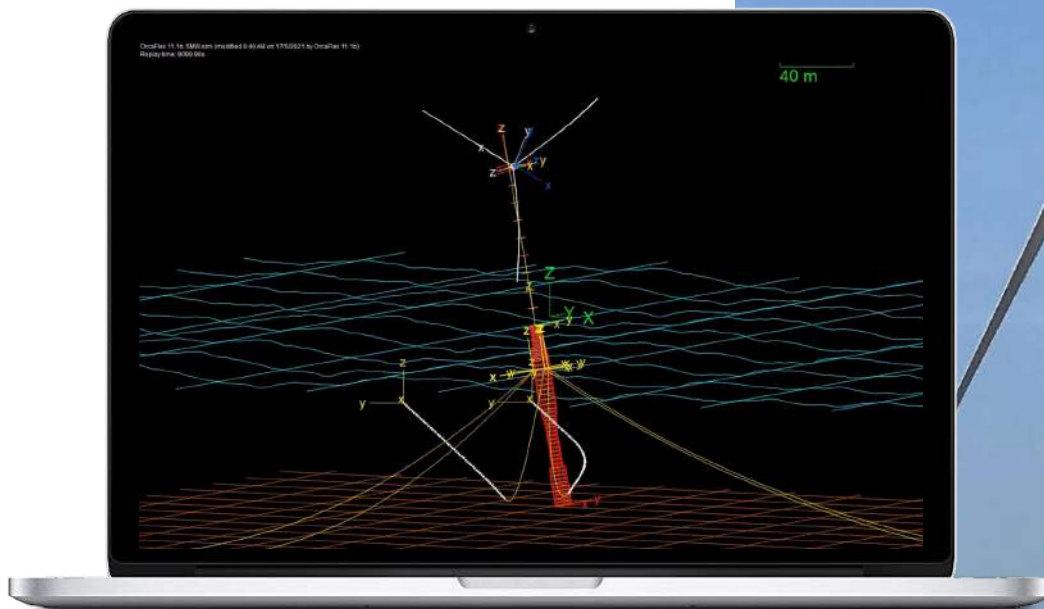
Rigging

Our rigging department provides hoisting materials, wire rope and synthetic slings, shackles, and connectors of major brands. We also keep stock of commonly used sizes and types. Material testing is also provided by our installed testing bed up to 600 mT.



Renewable energy solutions

We offer mooring solutions for floating wind turbines, offshore Solar PV and tidal turbine projects in Asia and Europe.



Specialised proprietary solutions

- **The Orcina Suite**
Designed for hydrodynamic & vessel response analysis
- **The Ariane7 Software**
Specially developed for mooring and offloading analysis of floating structures
- **The Nx Fe Tool**
Finite element-based structural assessment & design including contact analysis
- **The Maxsurf Package**
Created for stability checks & assessment of floaters



Total mooring solutions for the blue economy.

Mooreast operates across all geographies for deployment. Reach out to us and our relevant team will be in touch.

Contact Us

Mooreast Asia Pte Ltd

51 Shipyard Road
Singapore 628139
Tel: +65-6542 8001

Mooreast Europe B.V.

PO Box 81
2900 AB Capelle aan den IJssel
The Netherlands

Mooreast UK Co Ltd

Third Floor, Centenary House,
69 Wellington Street,
Glasgow, G2 6HG




For all enquiries:

renewables@mooreast.com

 Mooreast

 Mooreast Lifting & Marine



-  Mooreast locations
-  Network partners
-  Deployed projects



