Provider of choice, partner for solutions
About us

Keppel Offshore & Marine is a global leader in offshore rig design and construction, ship repair and conversion, and specialised shipbuilding. We integrate and harness the experience and expertise of over 20 yards and offices worldwide to be near our customers and their markets.

Driven by innovation and a capable people with the Can Do! spirit, we strive to become a builder of distinction in every aspect of our business.
People and values

With more than 29,000 Keppelites worldwide, we are a global team of competent and innovative people with a strong passion for what we do. We embrace the same core values with determination to deliver on our promises, everytime and everywhere.
Keppel Offshore & Marine’s hallmark of excellence is backed by a resilient workforce with the right attitudes and skills to serve our customers well.

To enable employees to give their best, we invest in long-term skills training, mentorship, talent management and career planning to help them realise their full potential.

Our goal is to develop a well-rounded and committed people with integrity and a global mindset to drive value for the company and our stakeholders.

Our unique corporate culture is distinguished by the Can Do! Spirit, which permeates our global operations through well-defined core values.

Regardless of nationality, culture or language, our employees embrace common principles and work ethics to deliver solid performance consistent with the Keppel brand.

We believe that strong values will drive even stronger results.

Strong values, strong results

We nurture a competent and committed team with strong values to drive strong results.
Operational sustainability

Our business philosophy is to deliver high quality projects safely, on time and within budget. This drives us to continuously improve on our current processes for greater reliability, productivity and safety.

Quality framework

As one of the world’s foremost offshore and marine groups, we pride ourselves in delivering quality products and services to our customers’ satisfaction.

Our processes are benchmarked against global industry standards to achieve consistency across 20 yards and offices worldwide.

All operational management and quality control systems are aligned through our Business Excellence Roadmap and Framework. This allows the performance of our global units to be assessed in a structured manner, whilst perpetuating best practices in the Group.

World class accreditation:
- ISO 9001:2000 Quality Management System
- ISO 14001 Environmental Management System
- Occupational Health & Safety Assessment Series 18001
- Singapore Quality Class

We work hand in hand with customers to drive high standards of quality.
Health, Safety & Environment

Safety is our top priority. Motivated to create a zero-incident workplace, we are constantly improving and innovating to eliminate risks to our people, property and the environment.

We are continuously driving a strong safety culture through leadership, education, empowerment and stakeholders’ involvement in our efforts. Together with our customers and government authorities, we equip every worker and subcontractor with the right skills and exhort them to adopt safe work practices as a way of life.

We integrate safety into everyday work processes

We collaborate with stakeholders to make our yards a zero-incident workplace
Offshore
We are the leading designer and builder of mobile offshore rig solutions. Our versatile rig designs and specialised equipment are developed to address the evolving needs of the global industry.
Driving innovation with deep insights
We forge enduring customer relationships based on mutual trust and teamwork.

On time & within budget

Our offshore division, helmed by Keppel FELS, has a proven track record for designing and building high-performance offshore rigs, which cater to a broad spectrum of operating conditions including harsh environments.

Our capabilities range from jackup and semisubmersible rigs to floating production systems and other advanced vessels such as drillships.

Our proven rig designs are highly adaptable and combine the best of Keppel’s technology innovation and operational experience.

KFELS Super B Class jackup rig, Deep Driller 5 (centre) for Aban Singapore by Keppel FELS, Singapore

Floating production unit, P-S2 for Petrobras jointly built by Keppel FELS, Singapore and Keppel FELS Brasil, Brazil

Matterhorn SeaStar® tension leg platform for Atlantia Offshore by Keppel FELS, Singapore

Deepwater semisubmersible rig, ENSCO 8503 for Ensco plc by Keppel FELS, Singapore

We forge enduring customer relationships based on mutual trust and teamwork.
Newbuilds

We are the choice solutions partner to many of today’s trendsetting drillers and operators, having supported them repeatedly to build and renew their rig fleets.

Our experience and keen understanding of both mature and emerging offshore markets enable us to develop robust and cost-effective solutions that meet customers’ needs worldwide.

- Maersk Deliverer for Maersk Drilling by Keppel FELS, Singapore
- We foster value-added partnerships through our strong customer focus
- Offshore Defender for Scorpion Offshore by Keppel AmFELS, USA
Repairs & conversions

Our proven expertise and track record for the construction of offshore rigs extend to repair, upgrading and conversion jobs. In executing projects of various complexities and scale, we offer flexibility, quick response and excellent service which are unrivalled by others.

Keppel FELS’s offshore repair specialists - the Flying Squad - are ever-ready to be deployed for emergency and onsite repair operations in any part of the world.

Conversion and upgrade of Ocean Monarch and Ocean Endeavour for Diamond Offshore by Keppel FELS, Singapore

With a sterling track record in offshore repairs, our Flying Squad is trusted by rig owners worldwide
Marine

We are the trusted name for the repair, conversion and upgrading of a diverse range of vessels. We lead the industry in FPSO, FSO and FSRU conversions, as well as vessel repairs.
Industry champion for safety
Quality, reliability & flexibility

We are an undisputed leader in the repair, conversion and upgrading of a diverse range of marine vessels.

With over 100 years of experience, our marine division, steered by Keppel Shipyard, has earned a strong reputation as the preferred partner for complex projects with safe and quick turnaround.

1. FPSO Saxi Batuque for Single Buoy Moorings by Keppel Shipyard, Singapore

2. We build win-win partnerships by offering unrivalled services competitively to our customers

3. FPSO Sevan Voyageur for Sevan Marine by Keppel Verolme, The Netherlands
Our marine expertise

- Conversions for Floating Production, Storage and Offloading (FPSO), Floating Storage and Offloading (FSO), Floating Storage and Re-gasification Unit (FSRU) and drillships
- Repair of all types of marine vessels including tankers, containerships, bulkers and LNG carriers
- Upgrading and life extension of vessels
- Jumboisation of vessels
- Fabrication of turrets and topside modules

Gas FPSO Cidade de São Mateus for Prosafe by Keppel Shipyard, Singapore

FSRU Golar Freeze for Golar LNG by Keppel Shipyard, Singapore
We are reputed for fast-track FPSO, FSO & FSRU conversions, having completed more than 90 such projects since 1981.

We are also renowned for the repair and conversion of LNG carriers. Leveraging our expertise and experience, we have been able to participate in landmark projects such as the conversion of the world’s first FSRUs from LNG carriers.
Specialised shipbuilding

We design and build a wide spectrum of highly specialised ships for a global clientele. We have the flexibility to customise vessels for every frontier, including some of the world’s harshest environments.
Delivering performance with powerful designs
Versatile & value-added

Our specialised shipbuilding division, led by Keppel Singmarine, has built more than 400 ships of different specifications and functions. Its vast experience spans purpose-built offshore support vessels such as Anchor Handling Tug/Supply vessels (AHTS), platform supply vessels (PSV) and multi-purpose duty rescue vessels.

With proven designs and engineering capabilities, we are also able to deliver highly advanced solutions such as ice-capable vessels for the harsh conditions of the Caspian Sea and Arctic region.

Through Keppel Singmarine and Keppel Nantong Shipyard in China, we provide a one-stop solution for hardy customised vessels, from conceptualisation to completion.
Technology innovation

Bringing together the best of our technology and operational experience, we partner customers at the front-end of projects to develop and customise viable solutions.
We seek to develop market-relevant and commercially viable products by improving upon existing solutions and addressing future needs.

Keppel Offshore & Marine Technology Centre (KOMtech)

KOMtech spearheads the research and development of new technologies, processes and competencies, across the spectrum of our businesses. Its scope includes technology foresight into alternative energy applications as well as developing designs, systems and critical equipment for rigs and ships.

1 KOMtech-designed mobile ice-resistant offshore drilling units (MIRODU) for the Arctic region

2 Our technology innovation is driven by KOMtech and three technology arms which collaborate with international customers and experts
Offshore Technology Development (OTD)

We employ the foremost technology and techniques in the design of new generation jackup rigs and their critical systems.

Through OTD, we have developed a series of proven jackup rig designs which have gained strong market acceptance:

- KFELS A Class
- KFELS B Class
- KFELS Super B Class
- KFELS N Class

We have also patented several critical rig components including jacking, fixation, self-positioning and skidding systems, which are used on all Keppel FELS jackup rigs.

For eco-friendliness and safety features, the KFELS B Class jackup rig design won the Engineering Achievement Awards 2009 by the Institution of Engineers Singapore (IES)
Deepwater Technology Group (DTG)

We are the only global offshore and marine group to possess a suite of in-house deepwater rig designs. Through DTG, we provide design and engineering solutions spanning semisubmersibles and various floating structures such as drilling tenders, accommodation semisubmersibles and drillships.

Our suite of designs include the award-winning KFELS SSDT™ drilling tenders, the well-established DSS™ Series of semisubmersibles jointly developed and owned by DTG and the Marine Structure Consultants (MSC), as well as the compact DrillDeep DS12,000 drillship, among others.

Our range of deepwater solutions is further enhanced through FloaTEC LLC, our joint venture with J-Ray McDermott, which specialises in floating production systems.
Marine Technology Development (MTD)

We specialise in the design and development of offshore support and maintenance vessels for a variety of operating conditions globally.

Through MTD, we offer turnkey solutions to customers by packaging critical equipment with our ship designs.

1. Transocean’s Development Driller III, built to the DSS™ S1 semisubmersible design

2. State-of-the-art KFELS SSDT™ rigs are the world’s first to be capable of being deployed next to deepwater floating platforms

3. Keppel O&M is well-positioned to meet the needs of the market with its deepwater solutions as such as its DrillDeep 12,000 drillship design

4. FloaTEC specialises in designing deepwater floating production systems, including proprietary designs for tension leg platforms
We are extending our engineering and technology know-how to provide innovative solutions for new segments in the offshore industry.

**Systematic Approach to Technology Development**

Our strategy provides a balanced approach towards technology leadership that will sustain us in the long run.

**Technology development strategy**

Our core competencies are reinforced by constant innovation and research and development (R&D) into new technologies and processes. These allow us to conceive and bring viable solutions to the market promptly.

We are guided by a systematic approach to R&D. In pursuing new concepts and products, we consider their commercial viability, customer needs, as well as how we can grow our knowledge pool and achieve process improvements.
Our KFELS MPSEP design is well-suited to service offshore wind farms as well as offshore oil & gas activities.

Comprehensive solutions
Our proprietary rig and ship solutions are developed and refined with input from trendsetting operators and drillers. They not only deliver solid performance, but can also be easily built and efficiently deployed.

We have the in-house expertise and flexibility to further adapt these solutions to address advancements in technology as well as the challenges of various operating environments.

In response to the industry’s diverse needs, we are tapping our core competencies and the synergy of our four technology arms to create value-added solutions for new frontiers.

DSS™ 20NS accommodation semisubmersible, Floatel Superior for Floatel International
Icebreaker – A support vessel that forges passages through icy waters for oil tankers.

Submersible – A mobile unit which sits entirely on the seabed during operation.

Ice-class FSO – An ice-resistant vessel that receives crude oil from a fixed platform and offloads it to shuttle tankers.

Harbour Tug – A small and powerful boat which assists ships when docking, tying up to the piers and during departure.

Anchor Handling Tug/Supply Vessel (AHTS) – An offshore support vessel equipped for emergency stand-by/rescue, oil recovery and fire fighting.

Jackup Rig (up to 500 ft) – A self-elevating mobile drilling unit that stands on its legs on the seabed during operation.

Multi-Purpose Self-Elevating Platform (MPSEP) (up to 213 ft) – A wind turbine installation vessel that can withstand harsh offshore environmental conditions year round at a water depth of 65m in the North Sea.

Floating Production Storage and Offloading (FPSO) Facility (>4,000 ft) – A ship-shaped production facility used for the processing and storage of oil or gas.

Extended Tension Leg Platform (ETLP) (up to 6,000 ft) – A vertically moored floating structure which is used for the offshore production of oil or gas.
10 **SPAR** (up to 8,000 ft)
- A large cylindrical unit which supports a rig platform, and anchors it to the seafloor using cables and chains

11 **Semisubmersible Drilling Tender (SSDT)** (up to 8,000 ft)
- A floater that operates alongside SPARs and Tension Leg Platforms, and is able to maintain station keeping in water depths of up to 8,000 ft

12 **Semisubmersible Accommodation Unit** (up to 8,000 ft)
- A floating unit that provides accommodation for crew

13 **Semisubmersible Drilling Rig** (up to 10,000 ft)
- A floating unit which can perform drilling operations at water depths of up to 10,000 ft
- **DSS™ 20**
- **DSS™ 38**
- **DSS™ 38E**
- **DSS™ 51**
- **DSS™ 51HE**
- **DSS™ 60HE**

14 **Semisubmersible Floating Production Unit (FPU)** (up to 10,000 ft)
- A floating platform used to produce oil and gas in deepsea
- **DeepDraft Semi**

15 **Drillship** (up to 12,000 ft)
- A compact and highly efficient unit with equipment suitable for well workover and exploration drilling
- **DrillDeep DS12000**
With a strong network of over 20 yards and offices worldwide, and a keen understanding of the markets we serve, Keppel Offshore & Marine is the global industry’s preferred solutions partner.