ENGINEERING & INNOVATION FOR THE MARINE INDUSTRY
In all our markets, oil, gas, renewables, LNG, marine transport and defence, customers want the same things – trusted partners, dependable technical support and innovative solutions.

Houlder delivers all three, whether the requirement is for design and build of new vessels, specialist marine equipment or complex project management. We do this globally for clients at the forefront of offshore and marine expansion and innovation. Our engineers, naval architects, designers and project managers do more than simply offer their expertise to the market. They combine forces to bring clarity to industry challenges and present fully thought-through solutions which balance intellect, experience, practical knowhow and sound commercial understanding.
DEPTH & BREADTH OF EXPERIENCE GAINED ACROSS THE MARINE WORLD

VEssel upgradEs
Houlder undertakes major offshore asset upgrades including drilling and accommodation unit SPS work.

EquiPment supplY
Houlder designs a range of equipment to support offshore and subsea construction and installation works.

VEssel design
Houlder designs a wide range of ships including passenger ferries, naval platforms and offshore construction vessels.

TEchnIcal consuLTancy
Houlder provides independent marine sector expertise to review and validate major infrastructure investment plans.

projEct managemEnt
Houlder leads large and complex shipbuilding and conversion projects on behalf of major energy and government clients.

offshore supp ort
Houlder deploys rapid response teams globally to improve the capabilities of offshore drilling assets while operational.
Houlder is committed to the future of LNG and has developed significant capability in supporting marine infrastructure. We work in small to mid-scale bunkering and distribution, LNG-as-fuel and gas power generation. Houlder’s small to mid-scale transfer and bunkering equipment innovatively employs proven, safe and reliable components to improve operational envelopes. Designs are based on an in-depth understanding of LNG operations and requirements.

Houlder delivers LNG innovation whether the requirement is for the design of new vessels, safe transfer and bunkering equipment or consultancy services. Projects include:

- LNG fuelled vessels
- LNG storage and bunkering vessels
- Small to mid-scale LNG Transfer

PARTNERS INCLUDE:
Houlder provides a range of engineering and project delivery services in response to the latest marine & energy sector challenges. Houlder’s range of EPCC services spans work from concept design and analysis through to commissioning and installation. We deploy trade teams and engineers globally and at short notice. Services include survey, engineering, procurement, fabrication management, construction and handover for a wide range of offshore assets.

Houlder is known for our reactiveness, technical ability and understanding of key client requirements across four major industry sectors;

- Offshore production
- Marine & subsea vessels
- Offshore drilling
- Offshore wind

CLIENTS INCLUDE:
Clients in the Offshore Wind market come to Houlder knowing that the company has a proven track record of success. The company shares specialist equipment expertise, vessel design skill and engineering knowhow. These have combined to develop award winning pile and jacket handling equipment, subsea floating accommodation and turbine installation vessels. The need for novel solutions will increase as wind farms move further offshore and into deeper water.

Houlder is known for innovation, technical skill and understanding of industry drivers. Direct project experience includes the following construction projects:

- Rampion
- Horns Rev 3
- Walney Farm Extension
- Galloper
- Aberdeen Bay (EOWDC)

Clients include:

- Boskalis
- Innovate UK
- SIEMENS
- Van Oord
- mpi
Houlder has a proven track record of providing ship design, marine engineering, naval architecture, construction supervision and operational support to ferry and cruise ship operators worldwide.

Our engineering talent enables us to identify and solve problems at each phase of design and construction. We act on behalf of the buyer or shipyard and always on behalf of the ultimate owner.

Houlder’s commercial marine clients benefit from a broad range of design, technical consultancy, analysis and supervision services. Areas of expertise include:

- Concept design
- Analysis
- Naval architecture
- Newbuilds and conversions
- Upgrades and maintenance
We are delighted with the final engineered solution created by Houlder. Both their engineers and ours have worked in collaboration to construct this equipment to exacting standards.

Peter Robinson
Managing Director of MPI Offshore Ltd

Given their design expertise, Houlder should play a leading role in participation in, and secondment of specialists (project to project) to, the new Innovation Centre to drive world class performance.

Sir John Parker
UK National Shipbuilding Strategy

Houlder has demonstrated a clear commitment to meet the high QHSE and Competence & Training standards that this industry correctly demands.

Malcolm Wilson
Director of Achilles FPAL

The Houlder team has consistently delivered to a high standard and, importantly, helped us innovate.

John Burrows
Chief Executive, Wightlink Ferries
Houlder has a growing reputation for high quality marine engineering, naval architecture and construction supervision on high value super and megayacht projects.

Our knowledge and experience enable us to problem solve on behalf of the client or shipyard, but always in the best interests of the project. Houlder’s naval architecture and marine engineering teams ensure delivery of even the most ambitious and challenging concepts.

Clients benefit from working with Houlder teams with experience of notable construction and refit works in the following key areas;

- Pre-contract support
- Owner representation
- Design, analysis & engineering
- New build/refit supervision
Houlder works with government, navies, prime contractors and subcontractors to support the procurement and operation of a wide range of floating platforms including warships and support vessels.

Houlder tasks include procurement support, ‘customer friend’ consultancy, fleet assessment, operational modelling and vessel design, upgrade and refurbishment. Houlder also deploys teams of security cleared engineers to naval bases and into theatre, to support mission critical handling equipment.

Houlder understands the unique procurement and operational challenges faced by public sector shipbuilding and fleet management projects. It provides a range of services to government including:

- ‘Customer Friend’ support
- Requirements capture and options analysis
- Asset capability review
- Design services
- Project management

CLIENTS INCLUDE:

- Ministry of Defence
- QinetiQ
- BAE Systems
- Babcock
- NERC
- Serco
Houlder has a thorough understanding of the infrastructure required to operate between ship and shore gained through work across the marine sector. Delivering projects for clients such as the UK Royal Navy and Port of London Authority alongside a wide range of civil engineers and architects, has given Houlder a proven track record of designing, constructing and installing structures and access systems between land and water.

Houlder’s ship-to-shore expertise has played a key role in a wide variety of projects from supporting the Queen Elizabeth Class aircraft carrier to ensuring successful operations for MBNA Thames Clippers on the River Thames;

- Moorings
- Fendering systems
- Pontoons
- Vehicle ramps
- Brows, piers and access walkways

CLIENTS INCLUDE:

- Ministry of Defence
- Port of London Authority
- Beckett Rankine
- MBNA Thames Clippers
- Southampton Water
Houlder works with vessel owners and operators to utilise clean ship technology to ensure compliance with environmental regulations and benefit crews, passengers and the wider community.

Our teams work with new build and retrofit projects. Whether the requirement is emission control, ballast water management, energy saving, clean fuel, HVAC efficiency or alternative propulsion, we have expertise that can help.

New build projects include Wightlink’s Victoria of Wight Electro Hybrid Ferry and the UK’s zero-discharge polar research vessel, RRS Sir David Attenborough. We have managed retrofit projects for various ferry and cruise operators. Projects include;

- ‘Green’ new vessel design
- Discharge to sea management
- Energy management
- Noise & vibration control
- Ballast water management
- Exhaust gas scrubbing

CLIENTS INCLUDE:
Houlder can call on its depth and breadth of experience to provide clients with expert witness and technical consultancy services in disputes, litigation, arbitration and court actions. The level of involvement varies from in depth investigations into engineering failures to technical briefings for legal teams.

Our senior staff and wider network of associates typically have chartered professional status and over 30 years’ experience in fields including naval architecture, marine engineering, commercial fleet management and asset operational roles.

Houlder also has a wealth of experience in marine operations including vessel operability, crewing and chartering. This, coupled with the in-house capability to model systems, means clients benefit from sound and well thought-through analysis of performance.

- Expert witness analysis
- Forensic engineering
- Asset survey and technical investigation
- Due diligence reporting
- Incident investigation
- Contractual and commercial analysis
- Operational review and modelling
Our clients rightly expect work to be undertaken safely, to agreed Quality Standards and in a way that protects the environments they operate in. Houlder’s QHSE management across our offices, as well as fabrication, installation and mobilisation site work, is proven to be robust and highly effective. Safety and quality managers are key members of our team. They are responsible for inductions, briefings and ‘toolbox’ talks that reinforce QHSE policies and the continuous improvement required for success.

Houlder holds a wide range of accreditations, certificates and memberships that demonstrate compliance with safety and quality standards.

- ISO 9001:2018 Standard
- OHSAS 18001 Standard
- JOSCAR Verification
- FPAL Advanced Verification
- British Safety Council
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