Minimum Facilities Platforms
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2H Offshore offers a range of specialist engineering services for unmanned minimum facilities platforms for shallow water— from concept development and front end engineering design through to detailed engineering, fabrication and installation. Our MFP experts work with you to design and deliver the solution best suited to your offshore project, whether that is a stand-alone facility, platform extension or wellbay module for a MOPU. The innovative design is ideal for marginal field developments, satellite developments, early production infield drilling and additions to existing platform infrastructure, where specific configuration is essential to ensure cost-effectiveness.

Conductor Supported Platforms

CSPs are a field-proven, flexible alternative to traditional jacket platforms suitable for water depths up to 100m. Well conductors are used as the foundation and structural support for the topsides. The minimal design reduces lead times for materials and construction and enables fabrication at local yards, which results in reduced project costs, significantly shorter delivery times, and improved local content. The modular, lightweight structure does not compromise production, process and safety requirements, and is installable by jackup drilling rig or low spec crane barge. The design can be made to retrofit around existing conductors or be used as a wellhead platform tied to a MOPU.

Monopile Wellhead Platforms

Monopiles offer development flexibility with a design that combines the CAPEX and OPEX advantages of a lightweight normally unmanned installation with the fast track and local fabrication benefits of a minimal structure. In shallow water applications, this widely used technology helps operators achieve low engineering, construction and installation costs and an accelerated schedule to first oil or gas.

Key Benefits

- Designed, fabricated, installed and online within 12 months.
- 30-50% cost savings compared to a standard platform.
- Installed by jack up or crane barge.
- Minimal, lightweight design requires less material.
- Utilises local fabrication and supply chain.
- Versatile design to accommodate varying water depths, environments, topsides and wells.

Key Projects

Bokor Phase 3 - Malaysia
WATER DEPTH 70m
SCOPE Concept, FEED, detailed engineering support, installation, structural integrity
A modular CSP design which was completed in 7 months following a FEED competition where it won against 5 other structures.

D18 & D28 - Malaysia
WATER DEPTH 35m
SCOPE Concept, FEED, detailed engineering, transportation and installation
A custom lightweight CSP designed and installed within 7 months, making them the fastest MFP installations in the region.

KAB-2 - Bahrain
WATER DEPTH 26m
SCOPE EPCI
Lightweight retrofit wellhead platform allowing an appraisal well to be transitioned to a permanent production facility with scope for future wells. Delivered and fully rig installed within 6 months.

KBM Cluster Platforms - Malaysia
WATER DEPTH 58m
SCOPE Concept, FEED, Detailed Engineering, Construction and Installation Support
MOPU-connected platforms for 11 wells in the Kapal, Banang and Meranti cluster fields. This fast-track project was delivered within 9 months.

Tanjong Baram - Malaysia
WATER DEPTH 12m
SCOPE Concept, FEED, EPCI
A turnkey three-deck CSP designed and installed in 9 months.

AFREN Okoro - Nigeria
WATER DEPTH 14m
SCOPE EPCI
A jack-up installed modular nine-slot wellhead platform with gas lift and water injection facilities designed to export to a nearby FPSO.

Morsa West - Angola
WATER DEPTH 17m
SCOPE EPCI
2H’s first conductor-supported platform, a compact five-slot structure, installed under an EPCI contract in the Morsa West field offshore Angola.

2H Offshore has designed/installed more than 50% of the conductor-supported platforms worldwide.
About 2H Offshore

2H Offshore is a global engineering contractor specialising in the design, engineering and integrity management of offshore structures, topside facilities, subsea components and riser and conductor systems used in the drilling and production of oil and gas. Our capabilities and experience range from shallow water fixed platforms, associated facilities equipment and conductors, to drilling, completion, workover, production and export risers for deep and ultra-deep water.

Areas of Expertise

We serve two primary markets, oil and gas and offshore renewables. Both of these market sectors require similar engineering skill sets, and our breadth of experience in offshore structures and environments allows us to provide expertise at all stages of a project: feasibility and concept design, detailed design, procurement management, fabrication support, installation support, monitoring, integrity management, asset life extension, P&A and decommissioning.

Renewables

- Wind
- Wave
- Tidal

Oil & Gas

- Drilling, Completion & Workover
- Production & Export

Areas:
- Fixed and floating platforms for wind, wave and tidal energy
- Drilling risers
- Jack-up risers
- Subsea well conductors
- Completion & workover risers
- Surface BOP drilling risers
- FPS dry tree production risers
- Fixed platform well conductors
- Jack-up production risers
- Conductor supported platforms
- Jacket structures
- Structural engineering
- Structural verification
- Foundations & piles
- Steel catenary risers
- Free-standing hybrid risers
- Flexible risers
- Umbilicals

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