Expanding possibilities with unique solutions

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A Heerema Company

Subsea Development
The challenges of subsea development projects

The unique environment of offshore subsea field developments often provides a highly complex set of challenges. What is the most efficient and effective way to handle increasing project scale and complex interfaces? Which riser concept is best suited given the specifics of each individual subsea development? How will water depth and reservoir characteristics push technical innovation? And what is the best way to manage the overall supply chain from design to offshore delivery – especially in remote or environmentally sensitive areas and harsh offshore circumstances?

Heerema Marine Contractors has a large fleet of modern, specialized vessels and equipment for subsea developments. Our versatile Deepwater Construction Vessels – Balder and Aegir – have multi-disciplinary capabilities and are each able to execute a variety of scopes, where normally multiple vessels would be required. The broad, high-end specifications of these vessels relax current field development and design constraints, providing our customers with the opportunity to meet the challenges of subsea developments more efficiently.

For instance, they enable installation of subsea equipment with very high insulation performance requirements (e.g. large diameter steel pipe-in-pipe flowlines), they can install larger and heavier integrated subsea structures and they can use Reel-lay and/or J-lay, always applying the most efficient combination of installation methodologies on the project.

Turning assets into optimized field development solutions
Heerema Marine Contractors provides world-class EPCI expertise for subsea projects (from the design through to the supply chain up to the offshore delivery). Our customers receive robust execution performance and optimized solutions. Our EPCI capabilities are extensive—we recently completed large subsea projects in Western Australia and the Gulf of Mexico, and we are currently executing one of the largest and most complex subsea projects to date in the deep waters off of Angola.

High performance versatility and flexibility

Integrated solutions across the project scope

We add value to projects of all sizes. The broad and innovative capabilities of our vessels enable safe and efficient project execution, including the combined execution of otherwise separated contracts, which would use multiple vessels and complicate integration of project activities. This provides economies of scale. It also creates the opportunity to rearrange installation sequences to suit each project’s needs. Our customers can make bespoke designs that are optimally beneficial for each individual field development with installation complexity being no limiting factor to the pallet of potential development solutions. And our one-contractor approach reduces complexity and scheduling interruptions. It is simply the most integrated, cost-effective approach on the market today.

We encourage our customers to involve us as early as possible in the project to create an optimal subsea design configuration for safe, efficient, robust – and predictable – execution.
Our six decades of experience doesn’t mean we are resting on our laurels. The Oil & Gas industry changes quickly, and only the truly innovative survive. For instance, our ‘Reel-lay’ concept optimizes reel spooling and transportation – using barges to transport reels to the construction site so that our vessel remains in the field and fully operational throughout the project. We have developed our own, in-house welding abilities and technology. And our Simulation Center provides virtual representations of subsea installations, and more.
Working effectively in tough marine environments demands more than simply knowing what to do. It requires experience, dedication – and above all, people – to get things done. Our dedicated teams have the passion and expertise needed to plan, execute and finish projects incident-free and according to plan. They have the proactive ability to mitigate unforeseen issues before they become a problem. Their collaborative approach ensures alignment to all timeline, technical, safety and environmental issues. And they have the project management experience to run smooth, stable operations in the harshest and deepest of ocean environments across the globe.
A commitment to safety

Heerema has one of the best safety records in the industry, and we are committed to maintaining an Incident and Injury Free (IIF) workplace. To do this, we start by strictly following the latest safety rules and standards. But we also move beyond simply adhering to a set of rules, as we put all of our offshore and onshore staff through effective training programs. This often takes place using our Simulation Center in the Netherlands for a real-world look and feel before conducting the actual complex operation offshore.

A commitment to people and the environment

We adhere to ISO certification and legal standards across the globe. We measure the environmental impact created by our assets and activities, and we set annual targets for the continuous improvement of our environmental performance and the prevention of pollution. We use low-sulphur marine fuels, and we incorporate energy regeneration systems on board our vessels. In every project, and in everything that we do, we perform with fairness, integrity and respect, making sustainable contributions to the economies in which we operate.
Maintaining your reputation

Our customers’ reputations take years to build, and we are acutely aware of our responsibility to ensure that these reputations remain intact throughout the lifetime of the project and beyond. We plan the work meticulously. We use proven methodologies with the right equipment and expert techniques. We adhere to safety, human resource and environmental standards. And throughout all of these activities, we foster open transparency to keep the lines of communication open.
Our Services:

Would you like to discover more about our services?

- Fixed Structures
- Floating Structures
- Subsea Development
- Decommissioning
- Offshore Wind

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