



COMPANY PRESENTATION

#WEMAKEITHAPPEN.

TRESIOS



WHAT | TRESIOS is a turnkey project management company for the Energy, Maritime and Civil Construction industry. We deliver **Project Management, Marine Services, Engineering & Design Solutions, Crewing & Careers** and **QA & QC Services**. We operate and provide our services worldwide and we will take care of any challenge.

HOW | In an effective manner, decisively, increasing value to projects & services.

WHO | Our multi-discipline backgrounds gives us a unique identity within the Renewables, Oil & Gas, Decommissioning, Salvage, Ship modification, and Civil construction market. Our internal team (marine specialist, project consultants, engineers, naval architects, structural, project managers, construction managers) are specialized and dedicated to provide the services you need.

WHERE | TRESIOS is headquartered in Rotterdam, The Netherlands. With our continuous growth, we want to be involved in different areas to optimize our knowledge of the local markets. To serve the East Mediterranean market and development, we have an office in Athens, Greece.



Our Specializations

We perform our business with passion and integrity



Dedicated professionals for turnkey solutions
#WEMAKEITHAPPEN.



Project Management

TRESIOS is highly specialized in turnkey project management for both offshore and onshore. From tendering to work package preparation to on-site project execution. The key to success is our in-depth and hands-on knowledge of both theoretical and practical installation techniques.

We manage internal disciplines for cost optimization, in line with safety regulations and operational risks, management procedures, project schedules and resource planning. This is by strictly managing engineering deliverables and implementing construction method statements, visibility studies, asset modification and all installation activities in parallel.



Marine Services

TRESIOS Marine Services provides services having a nautical bearing, whether it is maritime safety, reflagging, chartering, certification, inspections, or mobilization / demobilization of vessels. The versatile services are done by our own professionals and being offered and executed worldwide.

TRESIOS Marine Services provides services to owners, operators and charterers and to vessels of all types and sizes around the world. We create value to our clients to give them the most efficient solution(s) for any enquiry. This with regards to safety, time, costs, quality, and location(s).



Engineering

Our Engineering team embraces any off- and onshore engineering challenge and supports clients around a wide array of engineering projects. From small-scale assignments such as lift plans and steel structures analysis, to vast and complex projects such as offshore pipelay, installation of oil & gas and wind energy structures, decommissioning of offshore platforms and jackets.

Our services include, but are not limited to, structural & naval analyses, as well as reports, drawings, operational procedures, asset suitability surveys, fabrication inspections, field engineering and third-party authority compliance.

We utilize the strong analytical skills of qualified top-tier engineers, both office based as onsite. Thinking out of the box is our greatest strength. We analyze, evaluate, and improve processes, methods and equipment utilization. We continuously strive for innovation pushing the boundaries of what is possible.



QA & QC Services

TRESIOS QA & QC provides end-to-end project support with a full services portfolio and highly skilled specialists at major energy projects. We are a one-stop-shop who provides the client all the services needed to complete these projects and to do so efficiently with transparency and most cost profitable.

Our vision in TRESIOS QA & QC is to be an industry leader in providing the full quality package for all major energy projects. Currently, we have one very big achievement under our belt, where we created and delivered one of the most expensive pipeline projects to date. Now our goal is to continue with this achievement to go above and beyond, strive to be a sincere partner to everyone we work with.



Crewing & Careers

TRESIOS Crewing & Careers is a key asset to our success on any project, offshore and onshore. TRESIOS is capable and MLC certified to provide qualified offshore crew and onshore personnel to support- projects. We strive to meet our clients as a solid partner.

Our offshore personnel are result-oriented professionals with years of extensive offshore experience in the construction industry and can assist in any offshore installation, removal, decommissioning, or salvage project.

Our team has over 20 years experience in crewing with a global network of energy specialists.

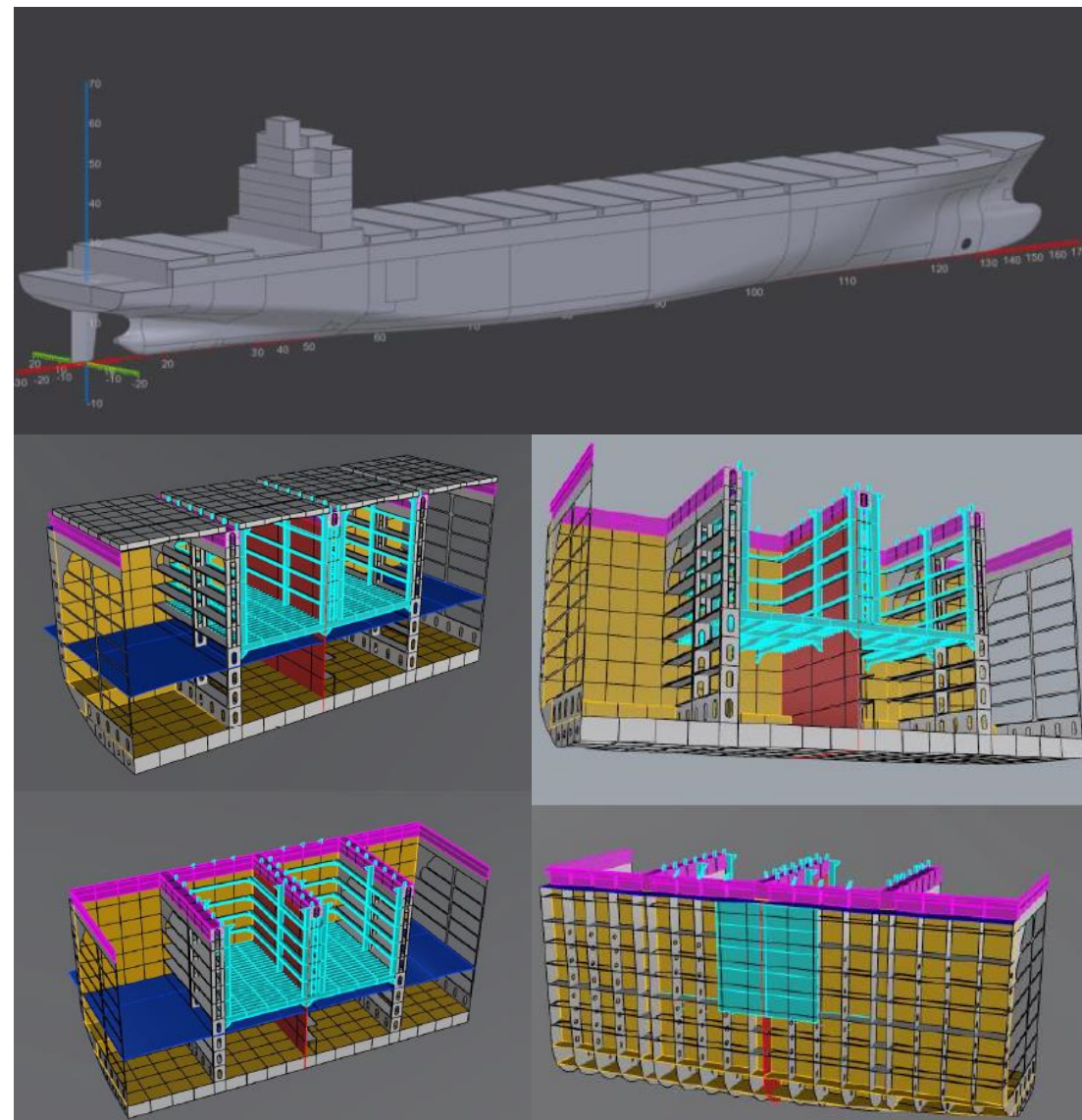


**Let's have a look at our
Engineering capacities.**

Engineering - Repair

Repair of a 330m Grounded Vessel

- Assessment of the existing situation
- Finite Element Analysis
- 3D Scanning
- Retrofit Scheme
- Detailing design
- Welding Procedure and Specifications
- Site inspection
- Crewing by providing welders



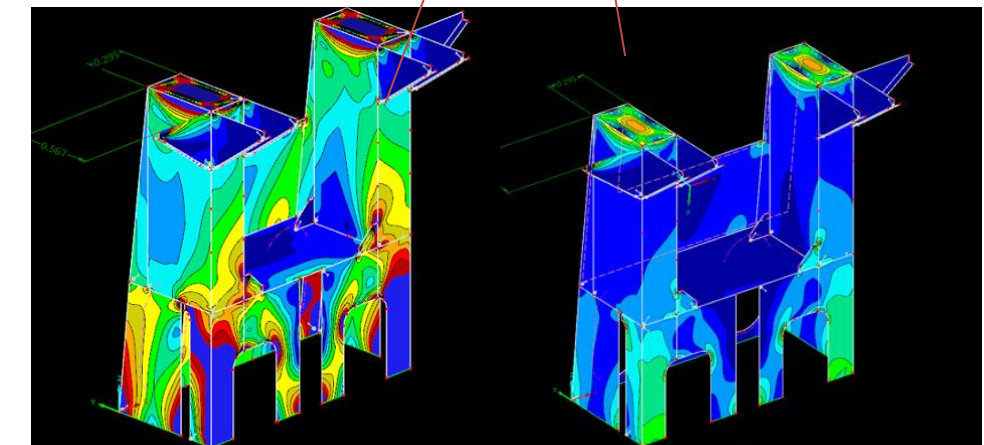
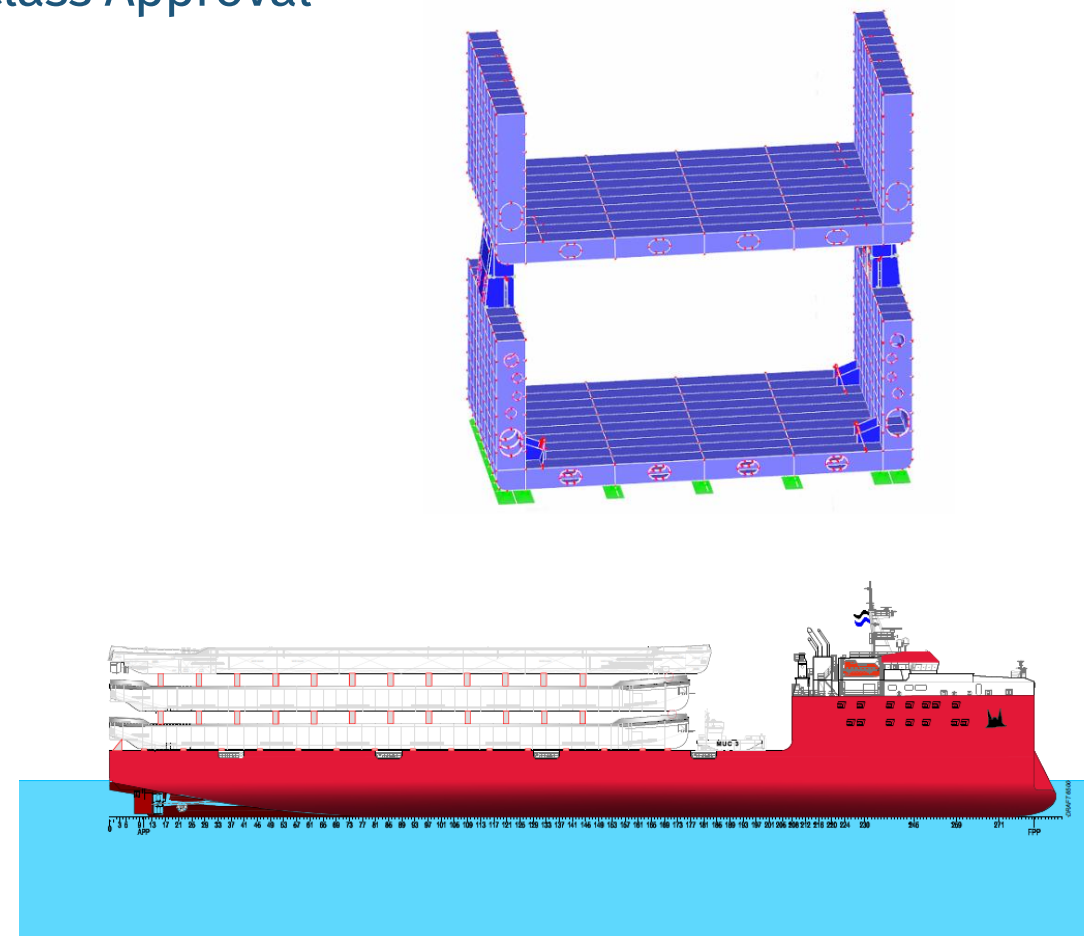
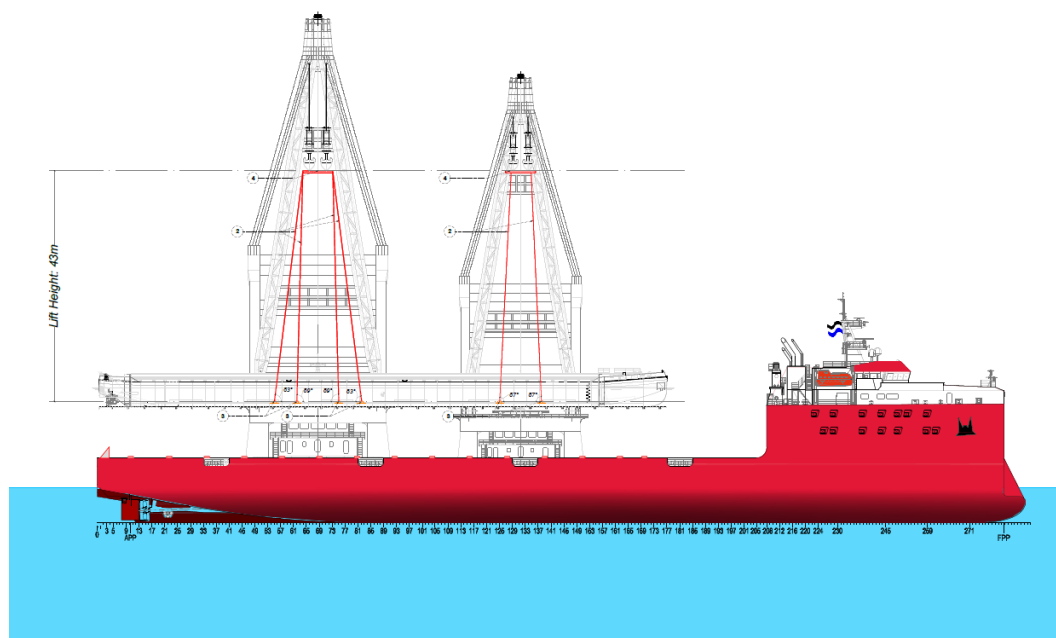
Engineering - Transportation

Transportation of 14 hulls from China to the Netherlands



- Stability calculations
- Motion Analysis
- Seafastening calculations
- Welding Procedure and Specifications
- Supports Finite Element Analysis & Detailing Design

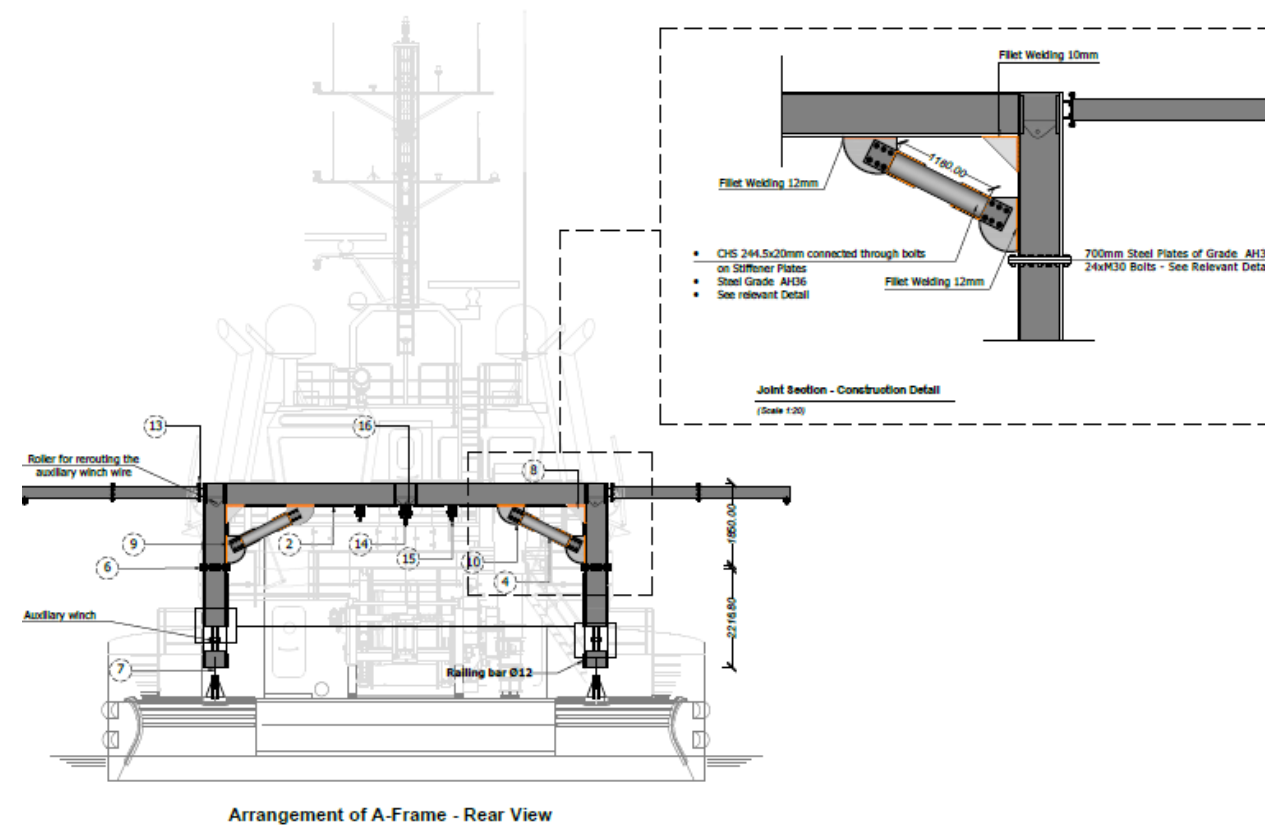
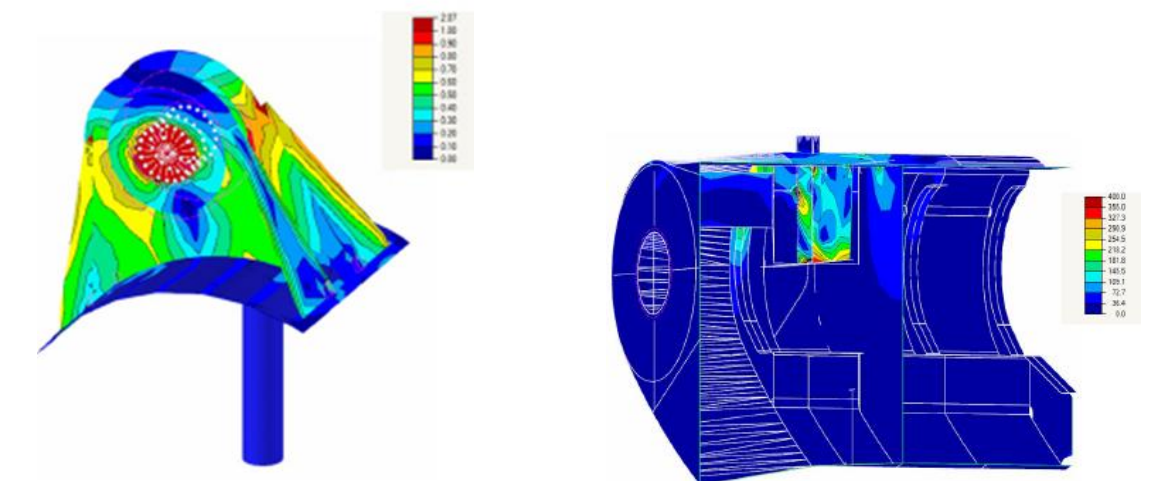
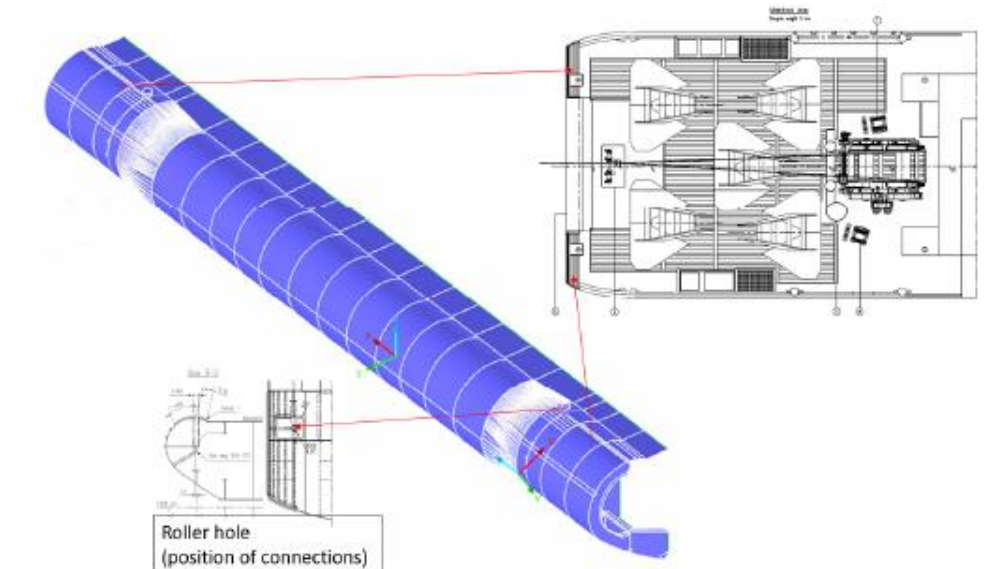
- Welding procedures and specifications
- Heavy lift (up to 2000t)
- Rigging Design
- Construction drawings
- Class Approval



Engineering – Vessel modification

Design of A-Frame

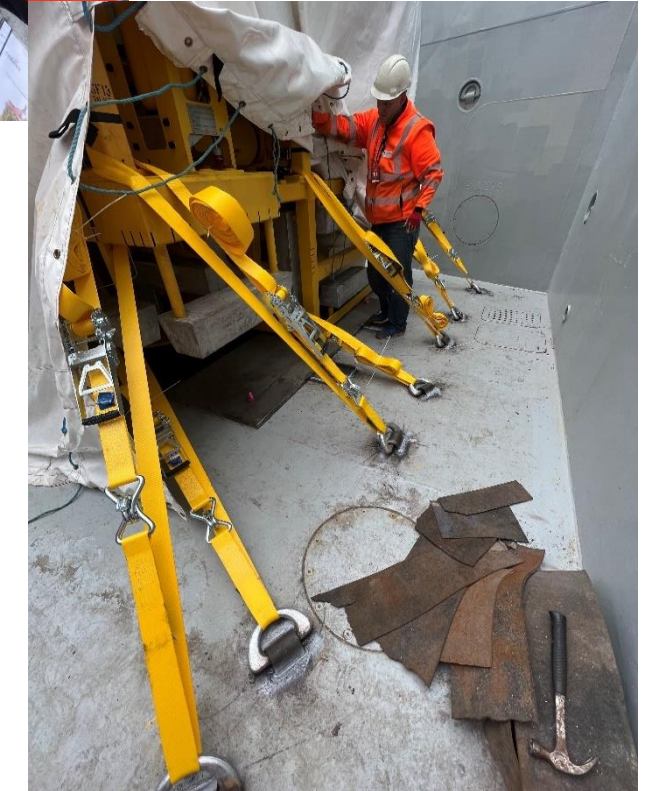
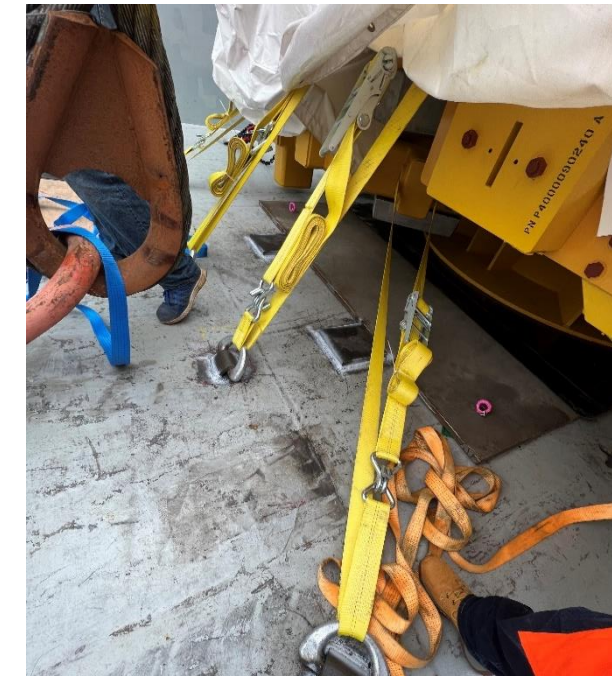
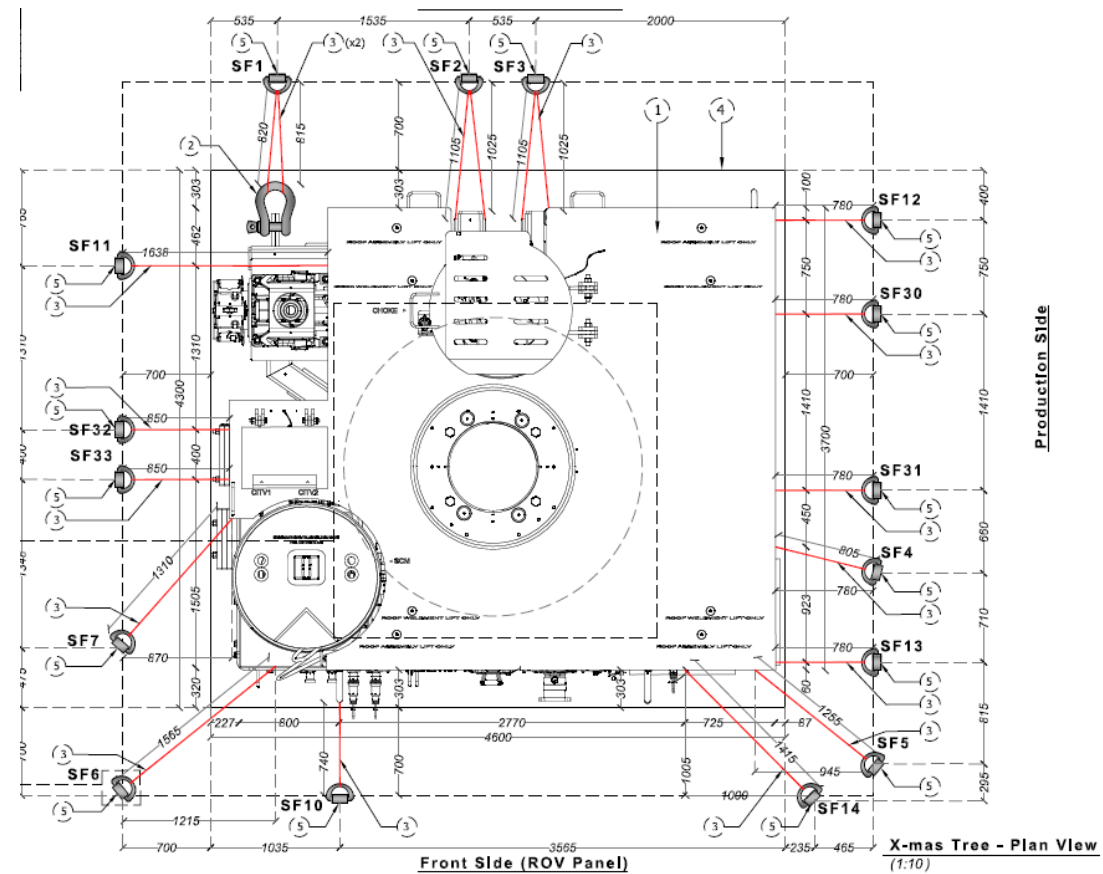
- Stability calculations
- Finite Element Analysis & Detailing Design
- Welding Procedure and Specifications
- Deck Assessment
- Rigging Design
- Deck Strengthening
- Construction drawings
- Class Approval



Engineering – Seafastening

Seafastening of 100t equipment

- Calculation of seafastening loads
- Design of a spread load structure
- Rigging design
- Detailing drawings
- Class approval



Engineering

Services overview



- Conceptual structural design
- Advanced FE - non-linear behavior analyses
- 3D designs & drawings
- Hydrodynamic / Vessel motion analysis
- Vessel modifications, overhaul & Deck layouts
- Stability calculations & Verifications
- Soil mechanics studies
- Workability & Feasibility studies
- Review of engineering documents, procedures, drawings & methods
- Fabrication for subsea structures & conceptual steel structures
- Translation of procedures from English to requested language
- Provision of onshore and offshore crew (engineers, specialists, construction crew)
- Rigid/Felx Pipelay & cable lay design & Installation analyses
- Jackets/Topsides/Wind Turbine transport & Installation design (T&I)
- Pull in engineering & Landfall design
- Suction piles & Hammer installation
- Jumper, inline spools and manifolds installation
- Flooding, Gauging, and Testing (FGT) / Hydrotest services
- Crossing design & Mattress installation
- On-bottom stability & Route design / optimization
- Method statements for any offshore engineering works
- Lift plans (dynamic) & rigging design
- Installation aids structural design
- Subsea structures design & installation analyses (PLETs/PLEMs in S and J-mode)
- Mooring plans / Mooring pattern analyses
- AWTI analyses & Procedures
- Jackets/Topsides/Wind Turbine transport & Installation design (T&I)

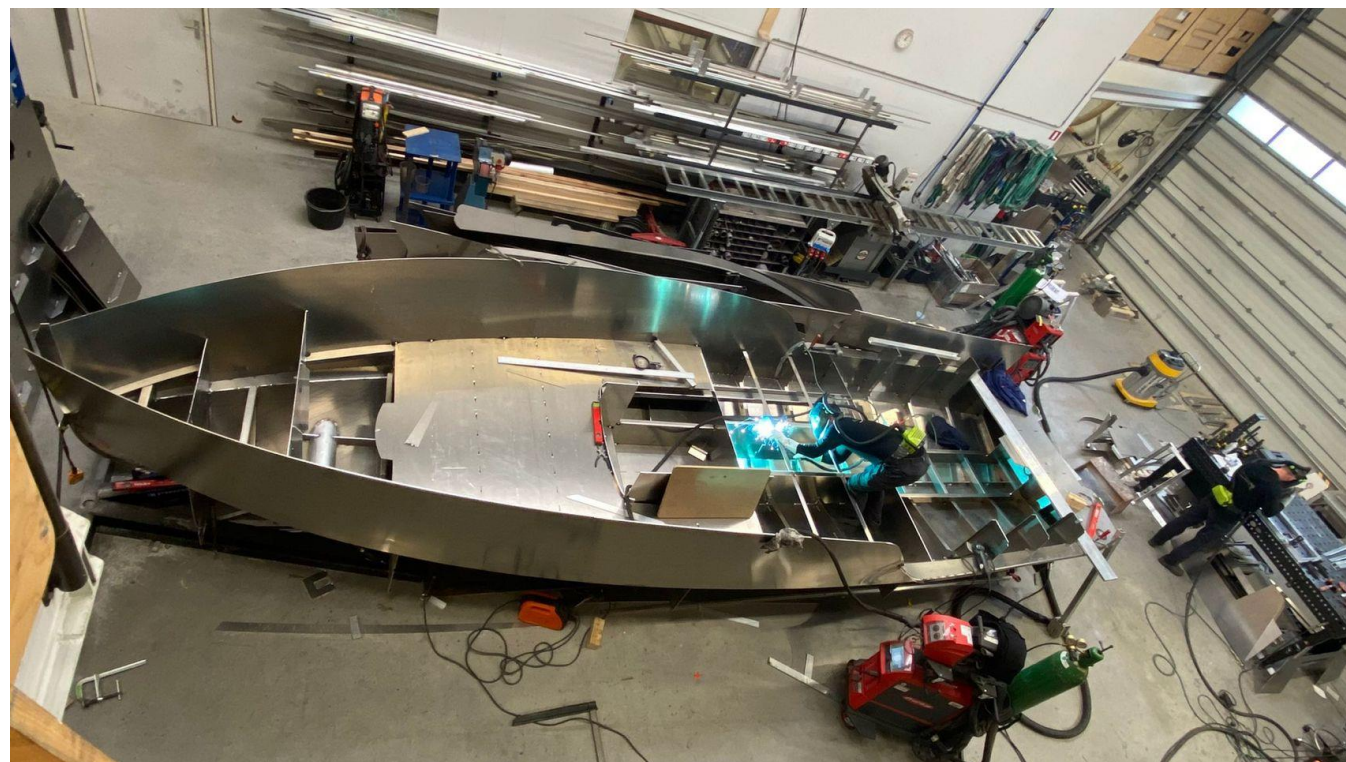
Vessel Design & Construction

Recreational



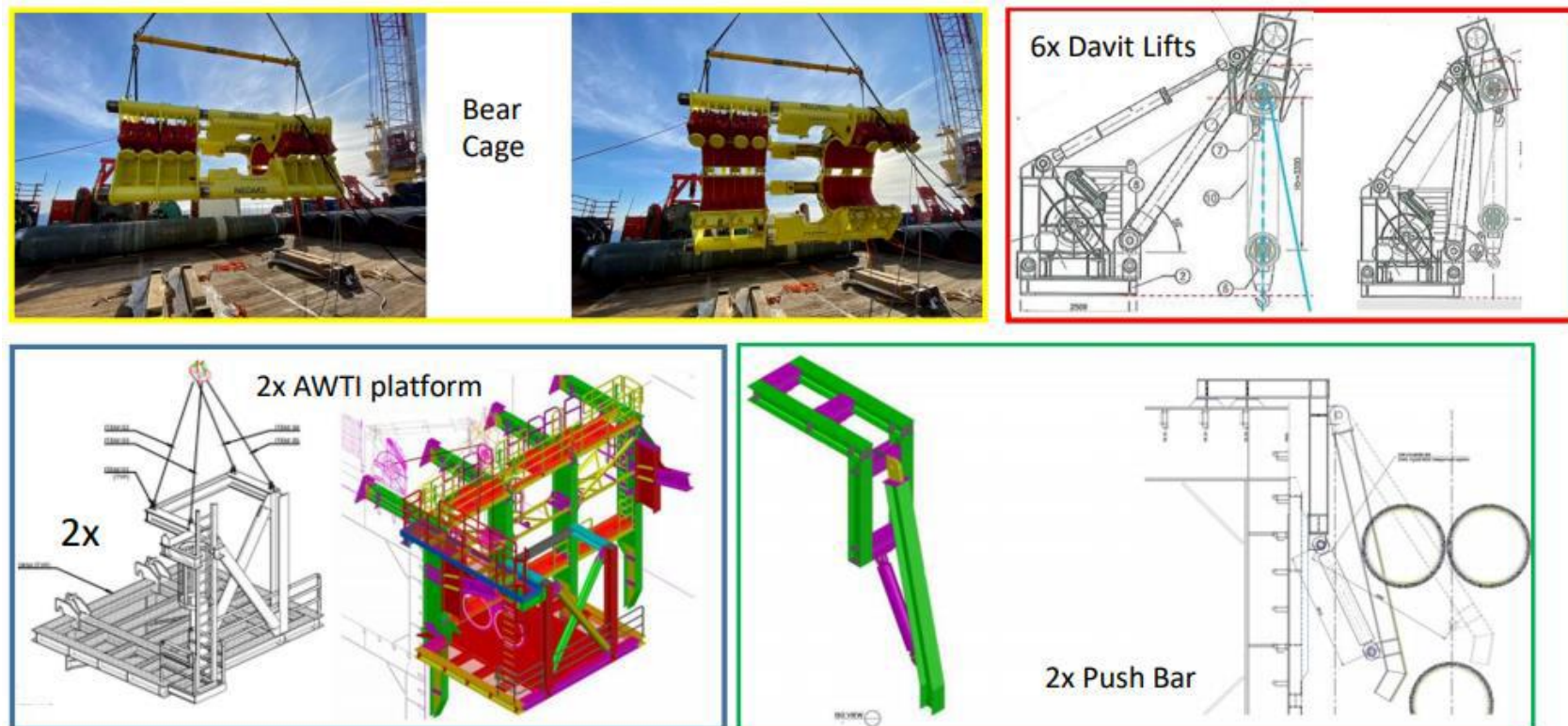
- Resistance calculations & Hull design
- Interior & Exterior Design
- Structural/Rigidity Calculations
- Stability Analysis
- Custom modifications
- Shipbuilding/Manufacturing
- Preparation of all required drawings

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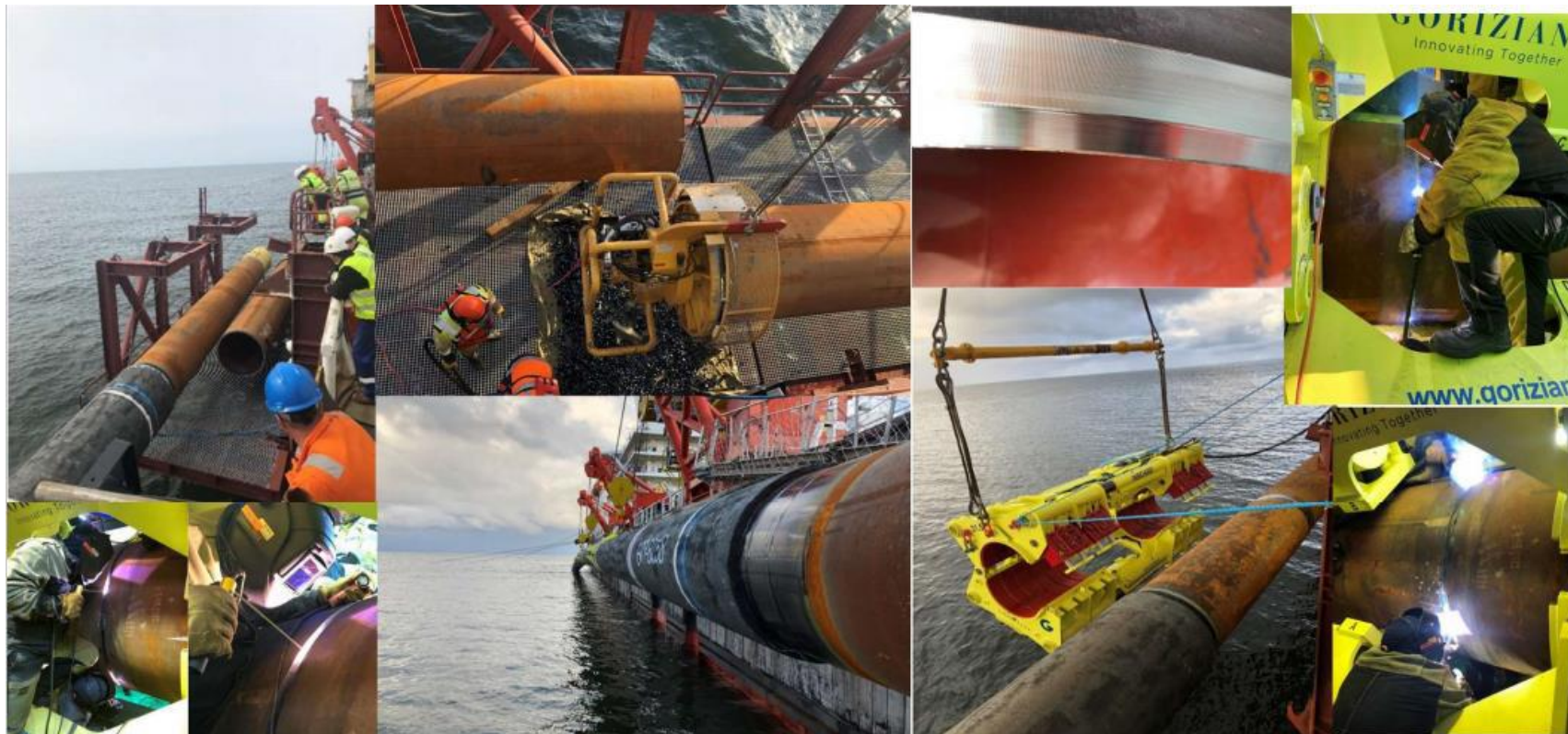
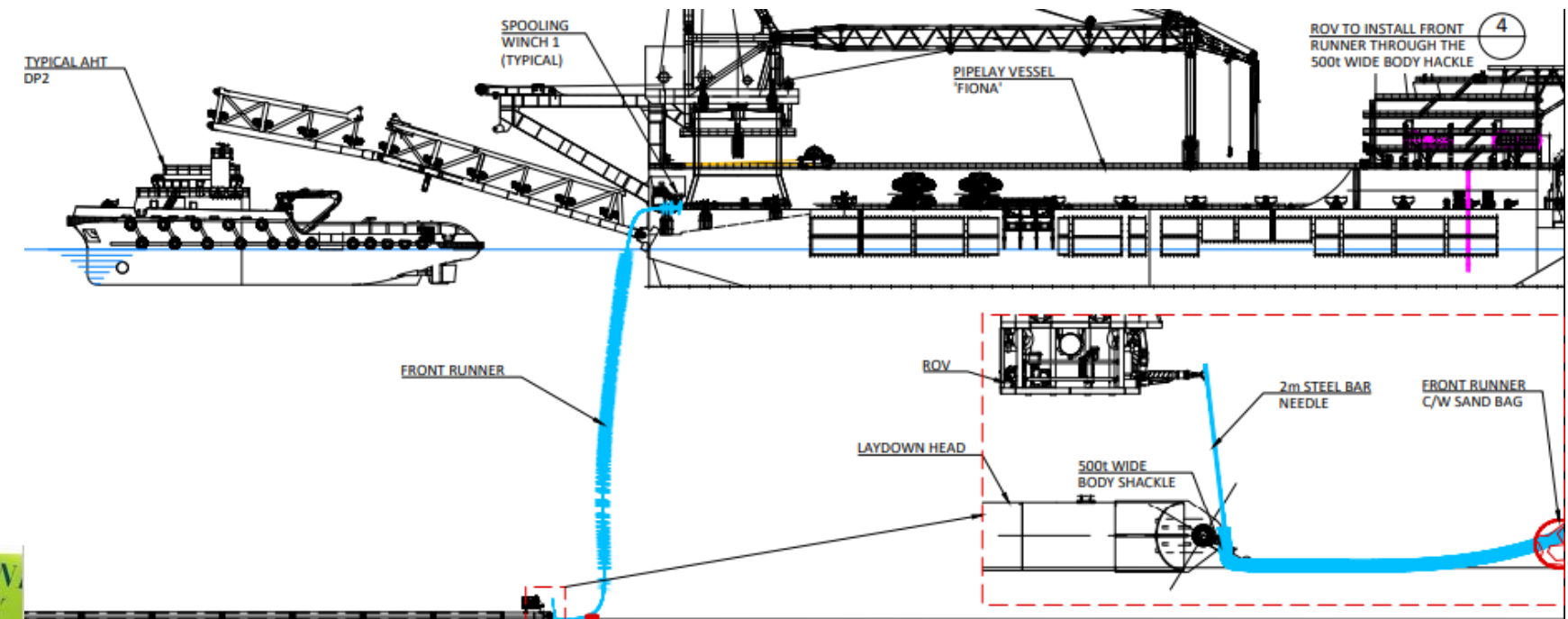
Offshore Management

- Able to provide experienced personnel:
- Offshore representatives
- Onshore consultancy PM&E
- Senior Advisors
- Engineering specialists & reviewers
- Auditors and Inspectors



Offshore Engineering

- Pipelay & structure installation analysis and procedures
- AWTI analyses and procedures
- Diving expertise (experts, equipment,
- Rigging design, task plans
- On site assistance



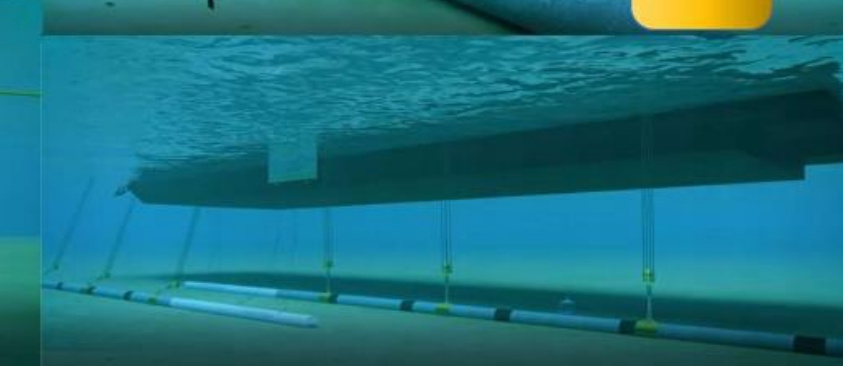
Pre-installed 3x AWTI clamps/ pipe end



8x 5mT IBU/ pipe end

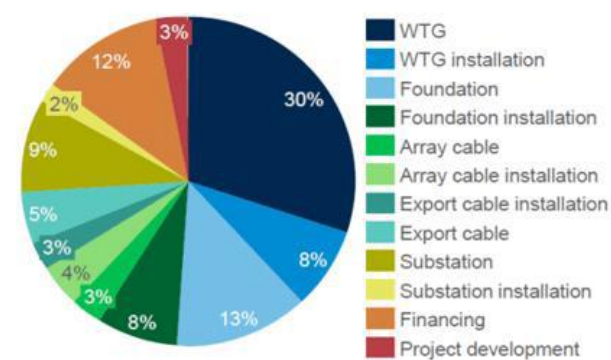
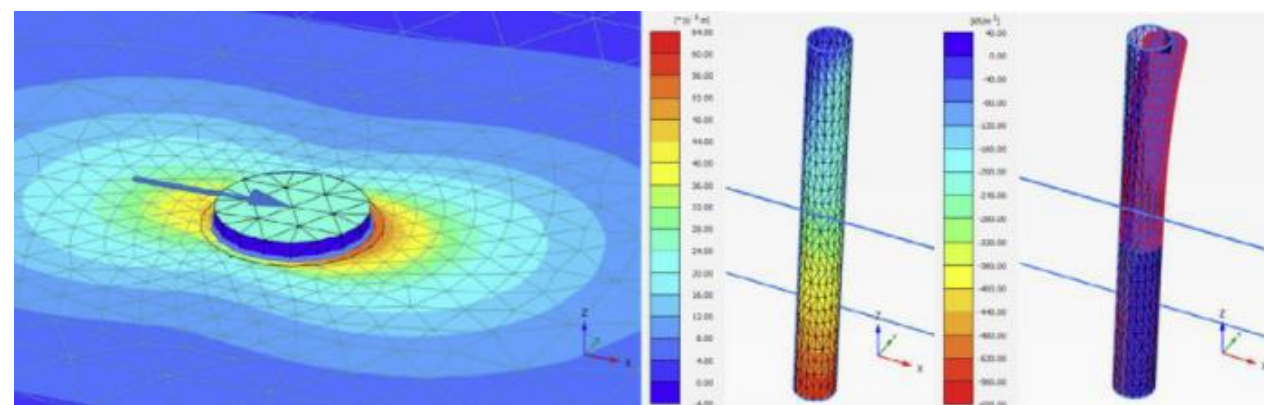
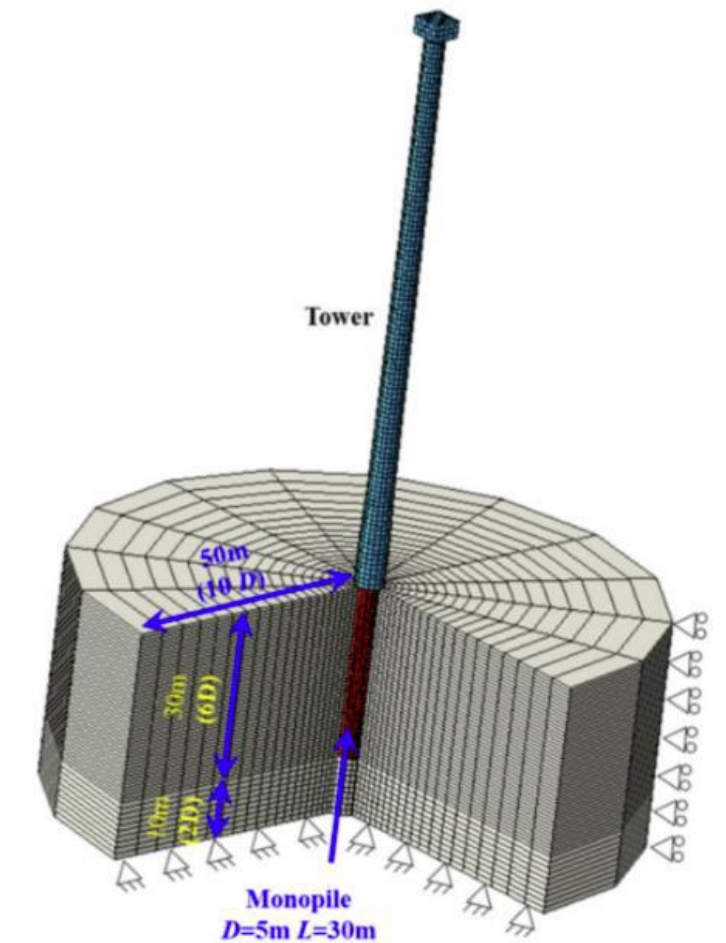
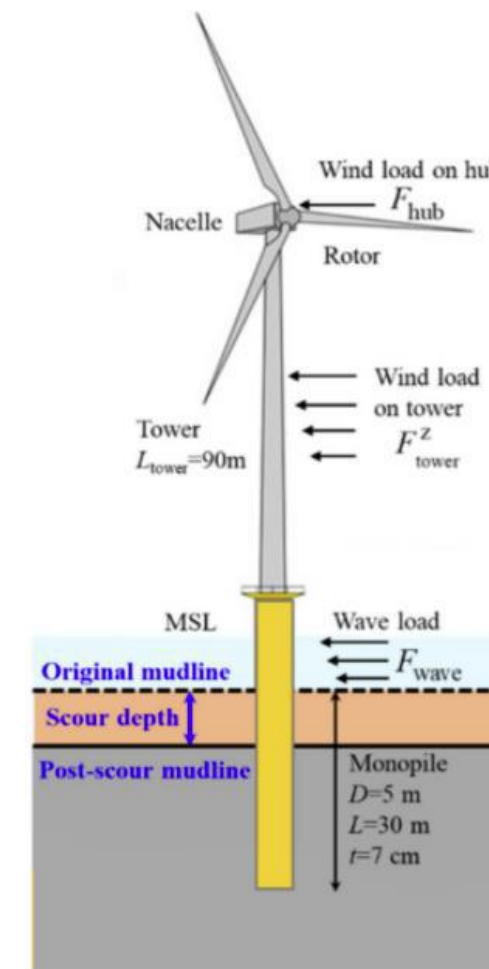


Hook-up davit lifts to 3x AWTI clamps/ pipe end



Offshore Engineering

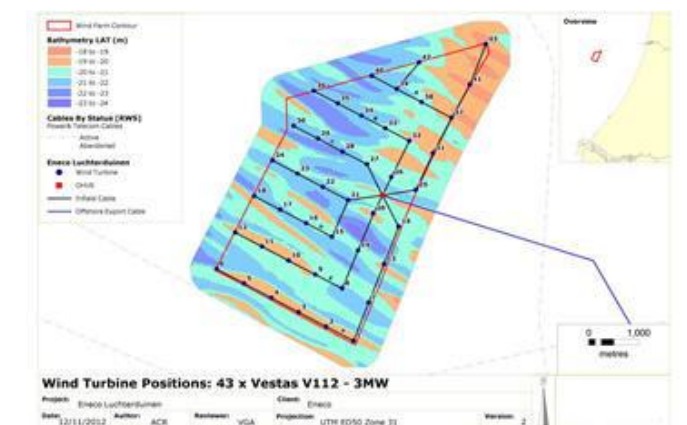
- Offshore wind turbines installation analyses & procedures
- Monopiles design
- Monopiles foundation checks
- Transition pieces design
- Lift plans
- Conceptual design (specialized lifting tools, installation aids)
- Operational & HSE guidance (risk analyses, HAZOP, HAZID)
- Offshore wind training programs



Cost breakdown for typical offshore bottom-fixed wind farms in Europe.



Copper price, July 2020 - June 2021.
Source: <https://www.nasdaq.com/market-activity/commodities/hq/cmz>

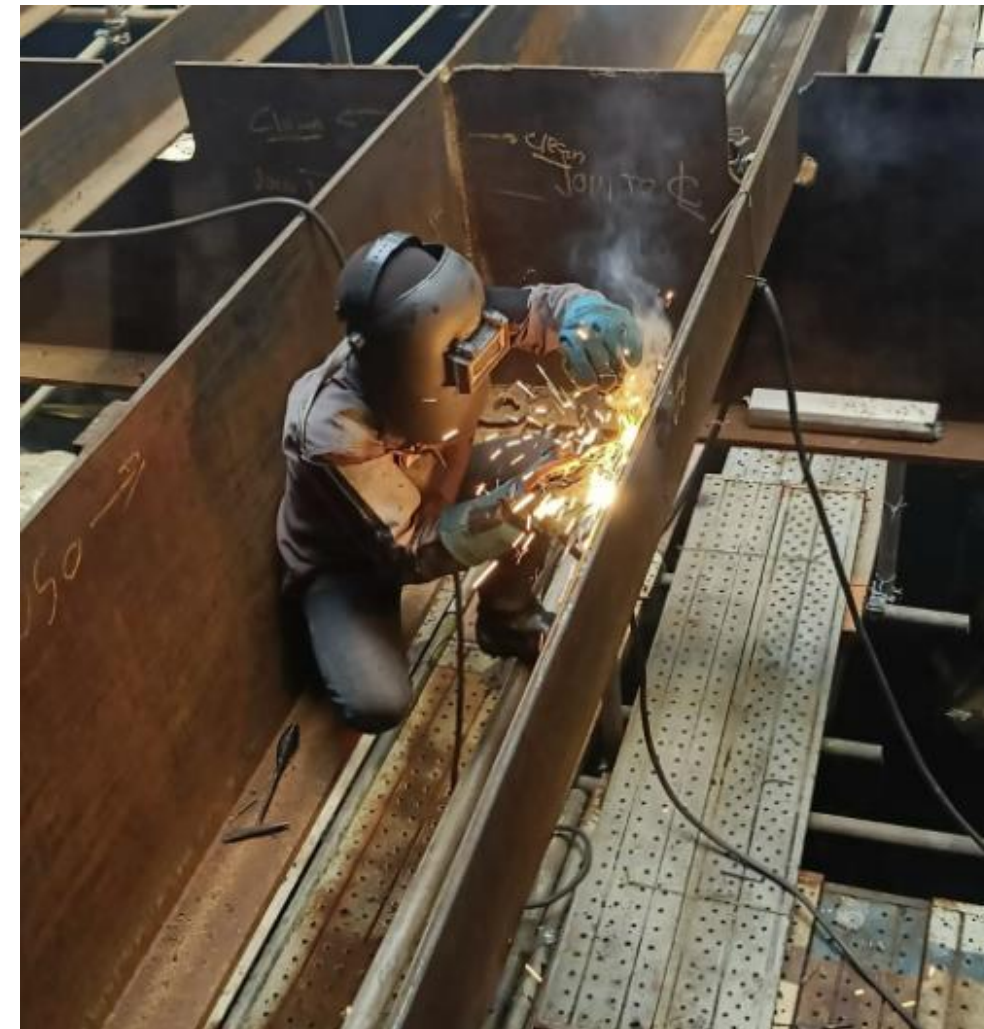


Engineering & Crewing

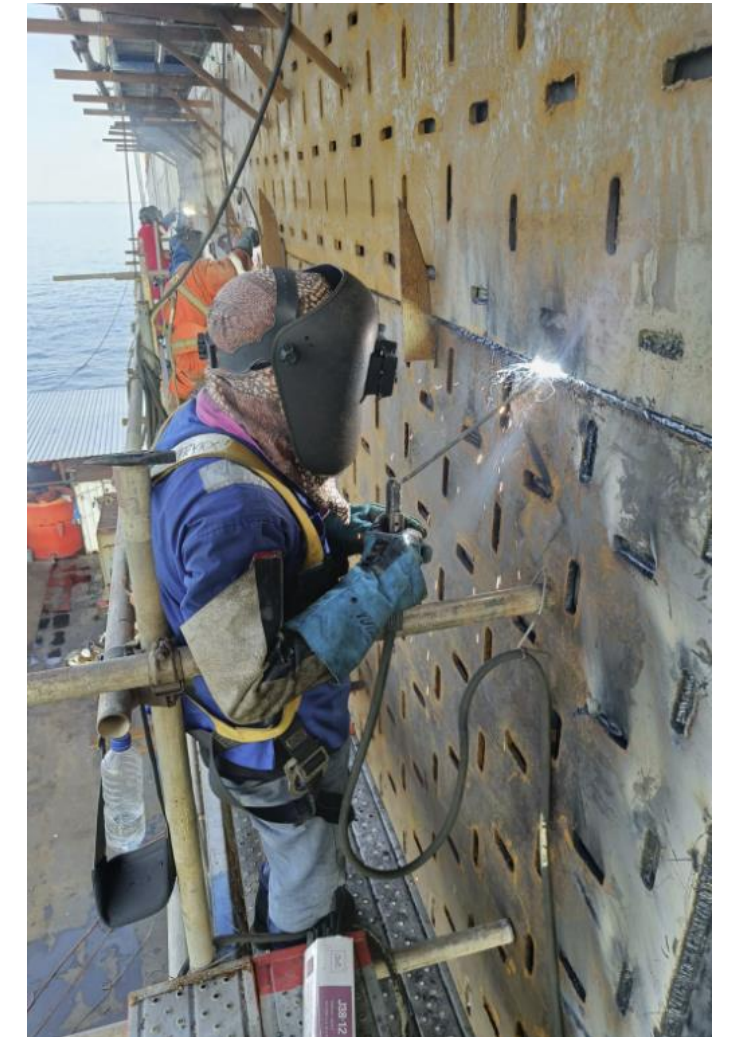
Welders from all over the world, depending on your needs, can join your project



Welder on a pipelay project by Tresios Crewing Team in Baltic sea



Welder on a strengthening-repair project in Indonesia





THANK YOU!

#LETSMAKEITHAPPEN!

Contact TRESIOS

#WEMAKEITHAPPEN

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