

ROPETEC RIGWORLD GHANA LTD

As part of Prezioso Linjebygg & Altrad services

Business Profile

(Revision: 02/2018)



PREZIOSO
LINJEBYGG



1. Key Figures
2. Vision, Mission and Values
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Key Figures

Worldwide

1957	4000
Founded In	People
17	400
Countries	M€ Revenue



Ghanaian Footprint

2016	110 000
Incorporation	Working Hours
60%	0
Local Content	LTIR

Vision, and Value Mission

VISION

- Ropetec Rigworld Ghana Ltd strives for excellence in terms of safety, professionalism, respect and innovation so as to be recognised as the undisputed industry benchmark

MISSION

We design and implement solutions for specialist coatings, access systems, insulation and passive fire protection to extend the life of industrial facilities and infrastructure

We engineer and implement solutions for the modification, inspection and repair of Oil and Gas assets, requiring special access resources and expertise

We assist our customers in optimising the lifecycle cost of their most critical assets by designing, engineering and deploying asset integrity solutions

VALUES

- Throughout the years, the fundamental values shared by all employees of the group have been



SAFETY

Safety is always our first priority and our commitment to the health and wellbeing of all of our employees is at the heart of everything we do. Despite the challenging and hazardous environments in which we work, our safety culture and systems ensure we strive to achieve the very highest safety standards

PROFESSIONALISM

Each member of the group engages continuously to meet and exceed the expectations of our clients. We do what we say and we constantly search for new ways in which we can perform with efficiency, flexibility and responsiveness

RESPECT

We conduct our business in accordance with exemplary standards of transparency, integrity and honesty. We hold a deep sense of responsibility towards all of our stakeholders and the environment we work in

INNOVATION

We are an organization that learns; we are able to permanently adapt to the rapidly changing environments in which we work and we are adept at anticipating the needs of our clients by creating new solutions, tools and techniques to deliver excellence

Our key drivers to develop our safety culture

- ◎ Make safety a fundamental value shared by all
- ◎ Focus on the importance of major risks and their prevention strategy
- ◎ Share the safety vision and responsibilities between employees and management
- ◎ Foster individual intervention through transversal cooperation and dialogue
- ◎ Keep coherence and persistence in our daily decisions and actions
- ◎ Inspire Safety as positive attitude
- ◎ Recognise good practices and apply fair penalties
- ◎ Develop leadership in safety through the entire chain of command, regardless of level or position
- ◎ Commit to a long-term approach

Our Golden Rules



1. Risk Management



2. Simultaneous ops



3. Stop Wor Authority



4. Equipment & Mach



5. Working at Height



6. Traffic & Travel



7. Housekeeping



8. Posture & Handling



9. Protective Equipment



Quality & Certifications

- The global nature of the sectors we work for has a significant impact on our certification processes.
- In order to better serve our markets, we have decided to always rely upon **high international standards**. This approach helps us develop our activities in accordance with **all types of international and local regulations and clients' specific demands**.
- For that reason, the our operations intend conform to **internationally recognised management standards** (e.g. ISO 9001, OHSAS 18001 and ISO 14001).
- **Ropetec Rigworld Ghana LTD** own is own Integrated management system approved by the group and BV certified for above mentioned standards





- PREZIOSO Linjebygg has developed a wide range of products, services and methods, in terms of cost-saving solutions at the interface between Maintenance & Modification and ISS (Insulation, Scaffolding and Surface treatment);
- "IMD" (Inspection, Modification & Decommissioning) is a separate business unit in PREZIOSO Linjebygg, which performs complex operations in areas with difficult access (above and below water). This represents cost-effective alternatives to conventional methods;
- Implementing above activities in Country, Ropetec Rigworld Ghana is highly motivated to contribute to lower costs within ISS, Maintenance & Modification segment, and will bring all the available expertise to the table in order to achieve this.

... to maintain assets during their lifecycle

CAPEX Projects (15%)
-Construction services-

OPEX Projects (85%)
-Maintenance services-

Construction projects

Integration and hook-up projects

Inspection and NDT testing

Routine maintenance and repairs

Shutdowns, turnarounds, upgrades and renovation programmes

Modification and decommissioning projects



Provision of supply chain and logistics support services

Our Services



Inspection



Non-Destructive Testing
(NDT)



Splash zone inspection



Complex Inspection



Dropped Objects
Prevention Scheme
(DROPS)



Inspection and certification
of lifting equipment



Drill pipe and tubular
Inspection



Class surveys



Technical Insulation
Performance assessment

Special Cutting and Rigging Project



Use of Cofferdam for risers and jacket structures repair



Crane replacement and modification



Atex Cutting and removal



Flare tip replacement and flare modifications



Jacket structure reinforcement



Hard to Access Mechanical maintenance



Maintenance and repair of risers, caissons and submerged structures



FPSO swivel replacement and repair

Surface treatment



Traditional abrasive
techniques
& U.H.P water Jetting



Thermal spray coating &
Induction Heating



Composite repair systems



Piping Integrity



Anticorrosion coating



Concrete coating
& Impermeability



Chemical Cleaning &
Pollution removal
(asbestos)



Special tank lining

Insulation



Hot thermal insulation



Cryogenic insulation



Soundproofing



Pre-insulation



Confined areas and environmental conditioning



CUI (Corrosion Under Insulation)



Marine industry interior outfitting



Tracing

Passive Fire Protection



Intumescent coatings



Fire stop joints



Fire-resistant solutions



Fire protection
Wrapping systems



Multi layer jackets
and mattresses



Refractory linings

Access



Scaffolding



Mobile access platforms



Netting and decking

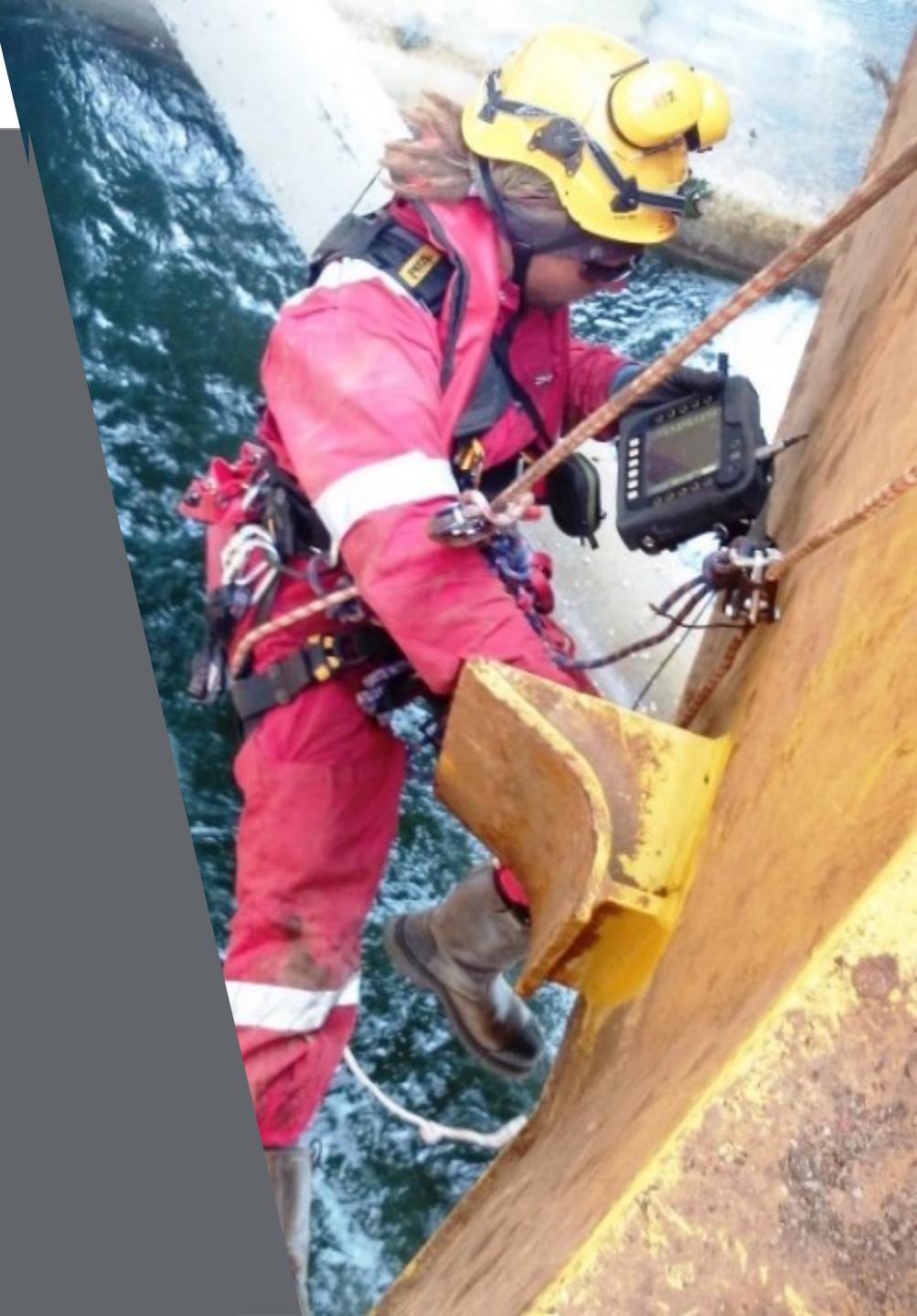


Rope Access Techniques

Flagship projects

BLOCK 17 Inspection Contract

- **Client:** TOTAL EP Angola
- **Market:** Oil & Gas
- **Scope:** 4 FPSOs (GIRASSOL, DALIA, PAZFLOR, CLOV) -
Services: Rope Access, NDT, Rigging & Misc. Mechanical
- **Key figures:**
 - 2017: EUR 6M
 - 2018: EUR 9M
 - Core Crew: 6 per vessel
 - Add-hoc scopes: 10-15 POB in average
- **Major dates:**
 - Contract signed 2014, for 5 years
- **Key-features:**
 - Rope Access, NDT, Rigging & Misc. Mechanical
 - Secure additional scope for advanced NDT;
 - Remote Motion Scanning (RMS) and Digital X-Ray
 - Rigging jobs



Flagship projects

GIRASSOL

- **Client:** Total E&P
- **Market:** Oil & Gas
- **Scope:** A complete and unprecedented revamping project: a multidisciplinary and comprehensive approach encompassing all Prezioso Linjebygg's areas of expertise: blasting (especially U.H.P. water jetting), anticorrosion coatings, fire protection, thermal insulation, scaffolding, rope access work
- **Key figures:**
 - Contract size: \$310M
 - 3 million man-hours over the five-year period
 - Average POB: 100 operators (i.e.: 200 mobilised people)
- **Major dates:**
 - The project started with a hook-up, in 2006-2007, in Fos-sur-Mer (France) – The Rosa Project
 - Year of completion of the whole Girassol project: 2016
- **Key-features:**
 - First complete revamping ever on an operating FPSO
 - Major safety constraints and measures: training of local workers, equipment adaptation – full compliance with ATEX Zone II directive...
 - Environmental protection: compliance with ISO 14001 (abrasive recovery and recycling, especially in the ballast tanks)
 - Major project coordination aspects to deal with (day and night work, managing a huge increase in human and material resources, etc.)



Flagship projects

CLAIR RIDGE

- **Client:**
 - BP
- **Market:** Oil & Gas
- **Scope:**
 - Provision of core services including access, insulation, coatings, passive fire protection and platform services
- **Key-figures:**
 - £70M contract as part of the £4.5B development project
 - 1200T scaffold mobilised offshore
 - Peak of 360 employees, 180 PoB
 - 1.5 million manhours LTI free
- **Major dates:**
 - June 2015 to June 2018
- **Key-features:**
 - Largest UKCS Hook Up Project in over twenty years.
 - Clair Ridge is the second phase development of the giant Clair field, located 75 kilometers west of the Shetland Islands.
 - BP is set to use new enhanced oil recovery technology when operations begin at Clair Ridge field, west of Shetland. This means an extra 40 million barrels of oil is expected to be recovered cost-effectively from the field during its lifetime



Flagship projects

BLOCK 17 Maintenance Contract

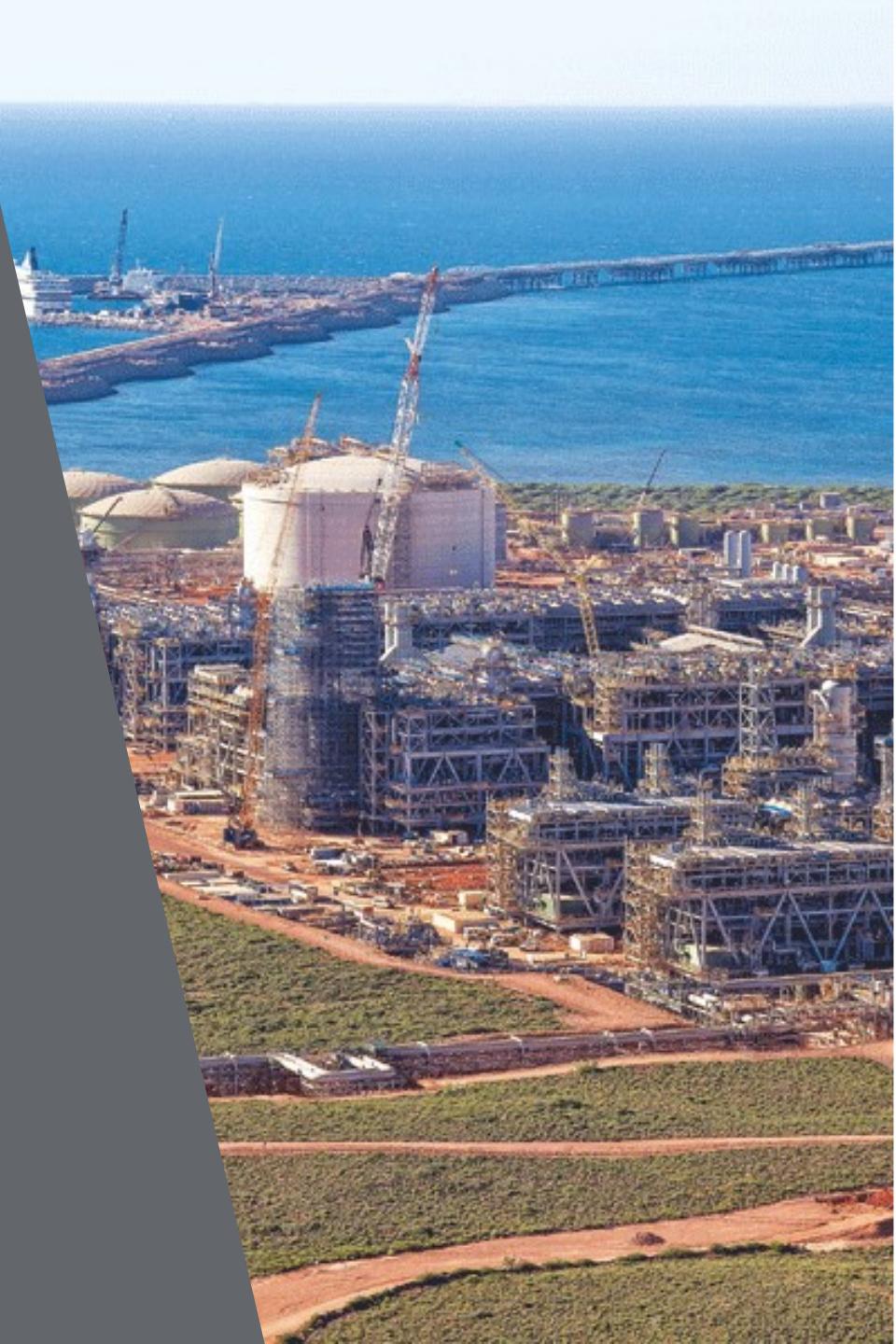
- **Client:** Total E&P Angola
- **Market:** Oil & Gas
- **Scope:** A maintenance program contract: a multidisciplinary and comprehensive approach encompassing all Prezioso Linjebygg's areas of expertise: blasting (especially U.H.P. water jetting), anticorrosion coatings, fire protection, thermal insulation, scaffolding, rope access work
- **Key figures:**
 - 4 FPSOs GIRASSOL/DALIA/PAZFLOR/CLOV
 - 2 million man-hours over the five-year period
 - Average POB: 160 operators, 300 tons of scaffolding
- **Major dates:**
 - 2015: Signature of 5 years contract
- **Key-features:**
 - Complete maintenance program defined for each FPSO
 - Major safety constraints and measures: training of local workers, equipment adaptation – full compliance with ATEX Zone II directive
 - Environmental protection: compliance with ISO 14001 (abrasive recovery and recycling, especially in the ballast tanks)



Flagship projects

GORGON LNG

- **Client:** Chevron – Barrow Island in Australia
- **Market:** Oil & Gas
- **Scope:** Supply and installation of painting, insulation & fireproofing
- **Key figures:**
 - Contract size: AU\$700M
- **Major dates:**
 - November 2011: contract award
 - February 2014: mobilisation to Barrow Island
 - March 2017: handover train #3
- **Key-features:**
 - Second largest contract, with a total peak workforce of 1,200 personnel employed and an average of 720 deployed on the construction site
 - The Gorgon project is located on Barrow Island which is a Class A Nature Reserve located 85 Km off the Western Australia coast
 - Working on the Class A reserve imposed extreme quarantine requirements and logistics challenges with everything transported to site required to be fumigated and quarantined prior to shipment



Flagship projects

WHEATSTONE LNG

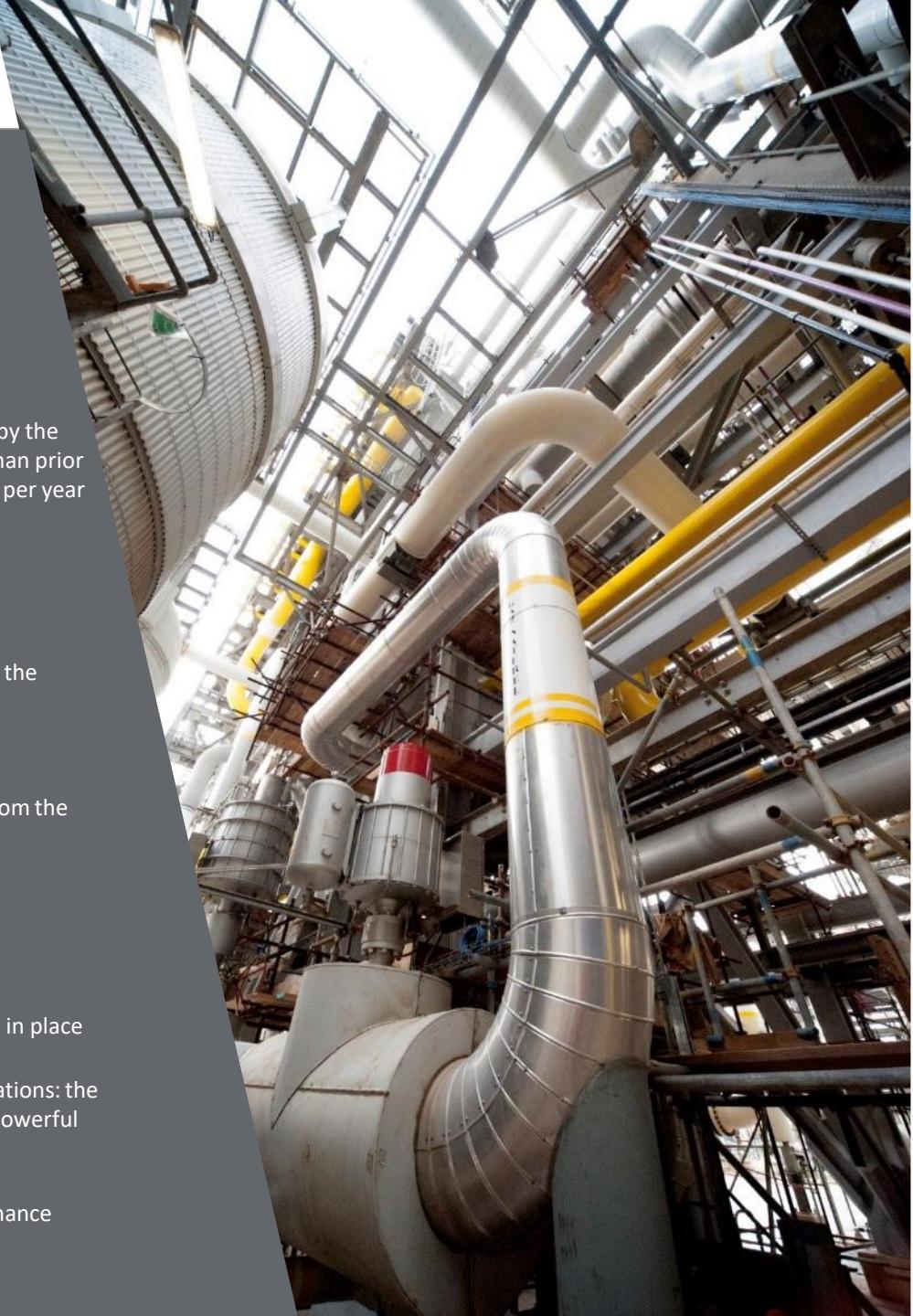
- **Client:**
 - Bechtel & Chevron
- **Market:** Oil & Gas
- **Scope:**
 - Scaffolding, painting, insulation and fireproofing services – ISBL
- **Key-figures:**
 - Scaffolding – A\$431m
 - Painting, Insulation and Fireproofing – A\$659m
- **Major dates:**
 - November 2013 – contract awarded
 - May 2014 – mobilisation to site
 - September 2018 – estimated completion
- **Key-features:**
 - Peak Workforce Employed: 2,051
 - October 2016 – Awarded remainder of OSBL and Domgas scopes of work previously provided by a different subcontractor
 - As of November 2017 – 6+ million manhours LTI free



Flagship projects

SKIKDA LNG

- **Client:** Sonatrach / KBR (Kellogg Brown & Root)
- **Market:** Oil & Gas
- **Scope:**
 - High production capacity project with the replacement of 3 train units by the construction of one single 'mega-train', more efficient, solid and safe than prior infrastructures, with an expected production of 4.5 million tons of LNG per year
 - Passive Fire Protection / Insulation / Painting operations
- **Key figures:**
 - Contract size: €36M
 - More than 2 million hours of work for PREZIOSO Linjebygg to complete the project
 - Prezioso Linjebygg's ability to mobilise personnel on a large scale:
 - Number of Algerian employees (900 workers)
 - The project also required larger teams: management personnel from the Philippines (30 supervisors) + Indonesian workers (300)
- **Major dates:** From 2009 to 2013
- **Key-features:**
 - Exemplarity in the field of Safety: all the preventive measures were put in place and no accident occurred during this project
 - Passive fire protection works, followed by insulation and painting operations: the focus was on reinforced acoustic protection, the implementation of a powerful anti-corrosion system and specific protection to face the mechanical requirements of this type of facility
 - Also note the need to lighten the lagging materials to facilitate maintenance work



Flagship projects

EPR - FLAMANVILLE

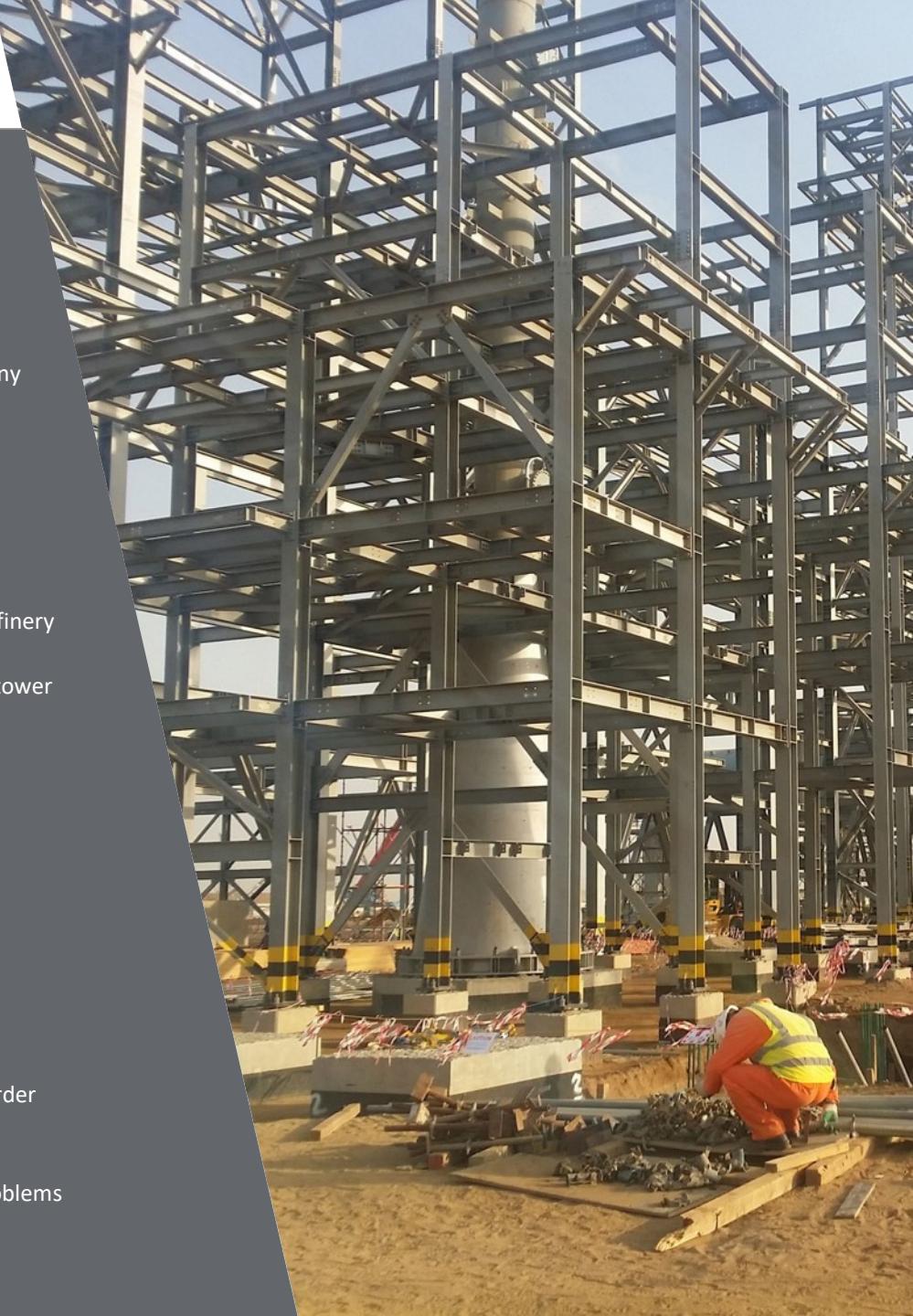
- **Client:**
 - Main contract with EDF (coatings upon concrete surfaces)
 - Other clients for coatings applied upon material and equipment: Alstom, Endel, Ponticelli, Fives Nordon, Otis, Iberdrola, etc.
- **Market:** Power Generation (Nuclear)
- **Scope:**
 - For the construction of its 3rd generation nuclear reactor based in Flamanville, EDF selected Prezioso Linjebygg for all coating operations
 - Our activity on the project mainly involved: coatings of all buildings, and more specifically coating of concrete (walls, ceilings and floors), as well as materials and equipment + Scaffolding & Passive Fire Protection assignments
- **Key-figures:**
 - Contract size: €80M
 - Mobilisation of significant resources: 150 operators in painting, 30 others for scaffolding and confinement, and 50 people for the "nuclear cleaning" activity
- **Major dates:**
 - Prezioso has been present on the EPR site since 2007
 - Our activity began slowly in December 2007
 - Because of the complexity of the project, the objective of initial marketable production is set for 2018-2020 / Prezioso Linjebygg is now continuing at a growing pace
- **Key features:**
 - Extremely complex project management
 - Crucial stakes such as simultaneous operations and compulsory planning gains
 - Extremely high level of requirement and excellence, both in terms of construction quality, but also in terms of safety
 - Participation in local economic development: training sessions for about 120 trainees-candidates through a partnership with EDF, Pôle Emploi and the Regional Council of Basse Normandie



Flagship projects

JAZAN REFINERY AND TERMINAL PROJECT AND JAZAN IGCC COMPLEX

- **Client:**
 - Nasser S. Al Hajri Corporation (NSH); Consolidated Contractors Company (CCC); Daewoo E&C; Sinopec Engineering Group Saudi Co. Ltd (SEG); Técnicas Reunidas Gulf (TRG)
- **Market:** Oil & Gas
- **Scope:**
 - One of the largest industrial complex for gas in the world, the Jazan Refinery will cover 12 km² and process 400k barrels of crude oil everyday
 - Provision of insulation (800k m²), scaffolding (suspended 400k m² and tower 150k m²), refractory and fireproofing services
- **Key-figures:**
 - Contract size: USD\$ 90M
 - At peak: 1,300 men
- **Major dates:**
 - From 2015 to 2019
- **Key-features:**
 - Extreme weather conditions and remote location along the Yemen border makes it an extremely challenging project
 - Excellent safety performance so far without any LTI's
 - Set up an automated fabrication workshops to reduce the logistical problems
 - Actively training local employees on site in scaffolding & insulation



Flagship projects

TDI

- **Client:** FLUOR / BASF – Ludwigshafen in Germany
- **Market:** Process / EPC
- **Scope:** Piping pre-fab including painting, piping & equipment erection, electrical and steam tracing, insulation, scaffolding and fabrication of column internals
- **Key figures:**
 - Contract size: Below €300M (confidential)
- **Major dates:**
 - November 2013: contract signed
 - February 2015: transition from unit rate to time & material
 - November 2015: commissioning
 - June 2016: installation of insulation boxes for valves and flanges and completion of all remaining works
- **Key-features:**
 - The new plant is the first facility in the world, which is able to produce 300,000 tons per year in only one single-stranded production line
 - Hertel achieved more than 3.0 million hours LTI-free
 - The manpower load was at the highest in week 12 with a total of approximately 1,423 personnel (including overhead)

