

ENERGY & ENVIRONMENT

OIL & GAS

TRENCHLESS PIPELINE REMOVAL

CIVILS & INFRASTRUCTURE



ENch Group

Italy – Romania – Qatar –
Kazakhstan – Algeria

Engineering and Project Management Specialists
for more than 40 years

General Presentation

ENch Profile

ENch Group is an independent and privately owned engineering company. Our multidisciplinary teams provide the design of plants for production, transportation and storage of oil & gas products, project management procurement services as well as management, coordination and supervision of construction, pre-



commissioning and commissioning activities. We are also active in **civil & infrastructure, research & development, energy and environment** activities, areas that we are pleased to be developing further at a time when the world's focus and requirements are shifting toward more sustainable solutions.

ENch Business Areas



ENERGY & ENVIRONMENT



OIL & GAS



TRENCHLESS PIPELINE REMOVAL



CIVILS & INFRASTRUCTURE

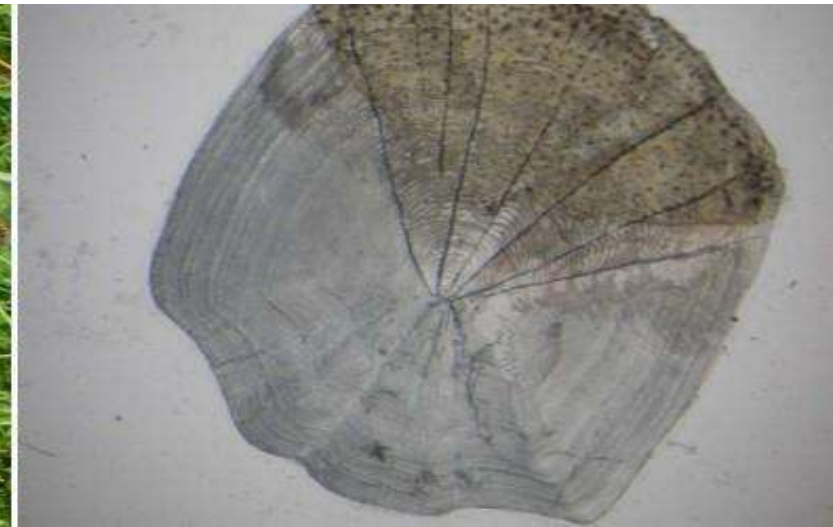


ENch

Energy & the Environment

Environment

Our integrated concept is guided by our knowledge of the social and environmental risks connected to the planning, engineering, management and execution of projects. Our experience includes all the elements connected to environmental issues, such as biology,



ENch

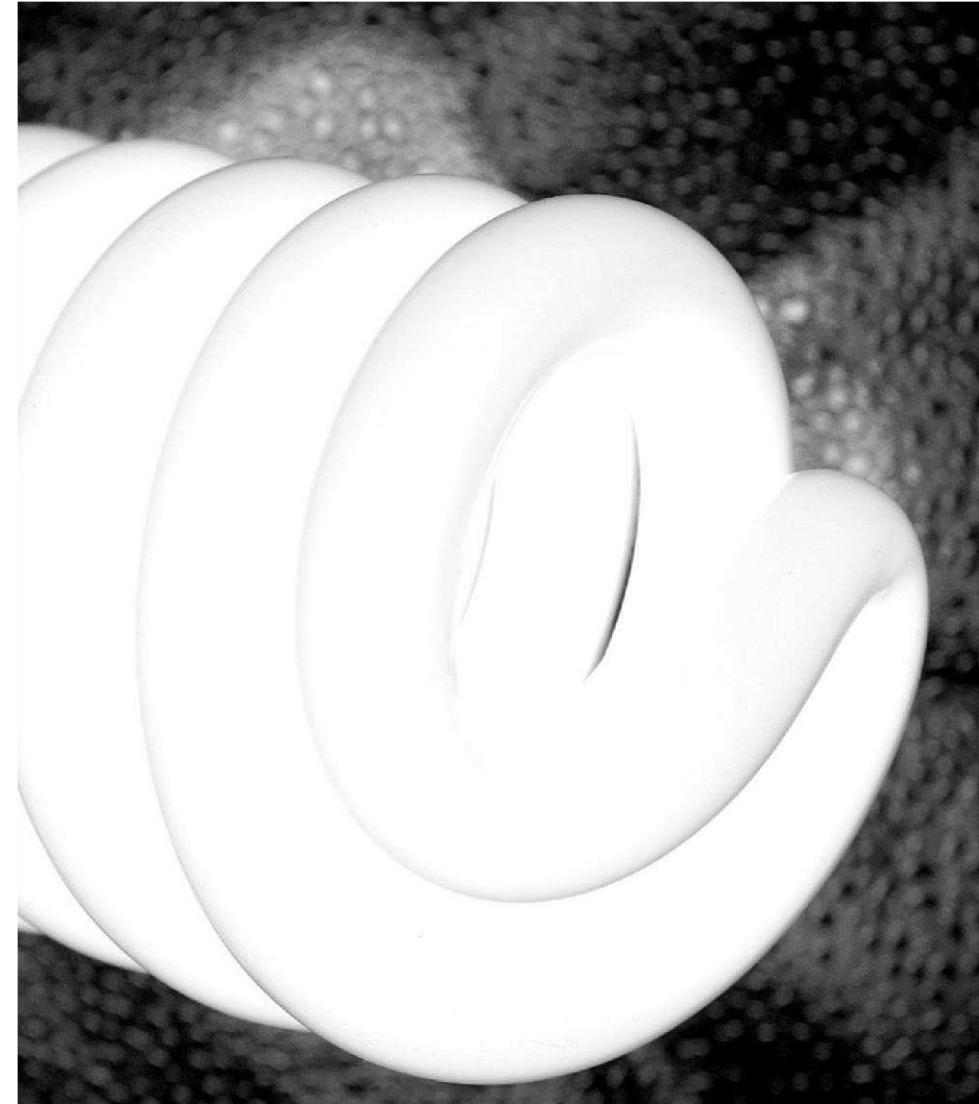
geology, hydrology, seismology, acoustics, atmospheric modeling, botany, process engineering and chemistry. We make full use of our expertise to carry out studies to ensure compliance with environmental requirements, and meet our clients' needs.

ENch

Energy & the Environment

Energy

Part of most business strategies is management aimed at significant energy savings. To contribute to a sustainable system and a greener future for the world, ENch Group provides



ENch

energy management and sustainability services to organizations in a wide range of industries.

We can provide energy procurement to control costs through strategic energy purchase, energy audits integral to decision making, rate analysis, energy risk management, budget estimates.

ENCh

Oil & Gas



We are experienced in the design of large industrial plants for the production, treatment, transportation and storage of petroleum products. We provide our clients with prefeasibility and feasibility studies, basic and detailed design, operations and maintenance engineering,



ENch

owner engineering, procurement, authority engineering as well as management, coordination and supervision of the prefabrication, erection, construction, precommissioning and commissioning of the plants.

ENCh

Oil & Gas Projects



ENCh Group carries out projects related to:

- Wellhead area installations
- Gathering systems, primary treatment plants for hydrocarbon reservoir fluid (GOSP)
- Gas treatment plants
- Water treatment and reinjection plants
- Long distance gas and oil pipelines (cross country and offshore)
- Pipeline special works (tunnels, mini-tunnels, H.D.D.)

ENch

- Compression and pumping stations
- Tanks farms for liquid and gaseous product storage
- Truck, rail, vessel loading terminals including onshore and offshore infrastructures (jetties, roads, etc.)
- LNG (Liquefied Natural Gas) receiving and regasification plants • Power Distribution

ENch

Pipeline Specialists



ENch

ENch Group specialist engineers have thorough knowledge of the design and engineering , construction and operational requirements regarding both onshore and offshore pipelines. We have considerable experience in gathering and transmission systems, as well as all associated equipment and systems. ENch Group has carried out these works in very remote areas and under some of the most difficult conditions, such as:

- Swampy areas (Nigeria)
- Deserts (North Africa)



ENCh

- Shallow Waters (Caspian Sea)
- Mountainous Terrain (Alps / Atlas Mountains)
- Frozen Earth / Permafrost (Kazakhstan) And pipeline special works, such as:
- Trenchless Technologies
- River / Lake Crossing
- Shore Approach

Trenchless Pipeline Removal

ENch

The replacement and removal of pipelines or sections of pipelines is more and more relevant as the world's pipeline infrastructure ages. And replacing or removing pipeline in sensitive areas presents even more critical issues.

Based on these considerations ENch Group developed the TPR, Trenchless Pipeline Removal, the only trenchless pipeline removal system in the world.



ENch

Civil & Infrastructure



ENch

ENch Group can provide design and construction management for residential buildings, commercial and industrial sites and public facilities, and help you implement the three basic principles for the best civils projects and infrastructure project planning: Improving project selection; Streamlining delivery; Making the most of existing assets.



ENch

ENch

ENch

Our Services

ENGINEERING

PROJECT MANAGEMENT

PROCUREMENT

FIELD SERVICES

HSE

MAINTENANCE ENGINEERING

TRAINING



ENch

Engineering

ENch Group is a completely multidisciplinary engineering company. We offer proven expertise with the industry leading software and our technologies and developing all the way through into project execution.

Pre-feasibility
and feasibility
study

Basic design /
FEED

Detail design

Reliability and
Maintenance
Engineering

Authority
Engineering

Owner's
Engineering

ENch

extensive knowledge of industry codes and practices. We are engineering and design experts for all phases of a project. We bring our experience and know-how to our clients for defining and selecting

ENch

Engineering



ENch Group has an immense amount of experience in conceptual and feasibility studies, basic and detailed design, maintenance and operability engineering, vetting, procurement support, tender support and engineering support in the construction phase of projects.

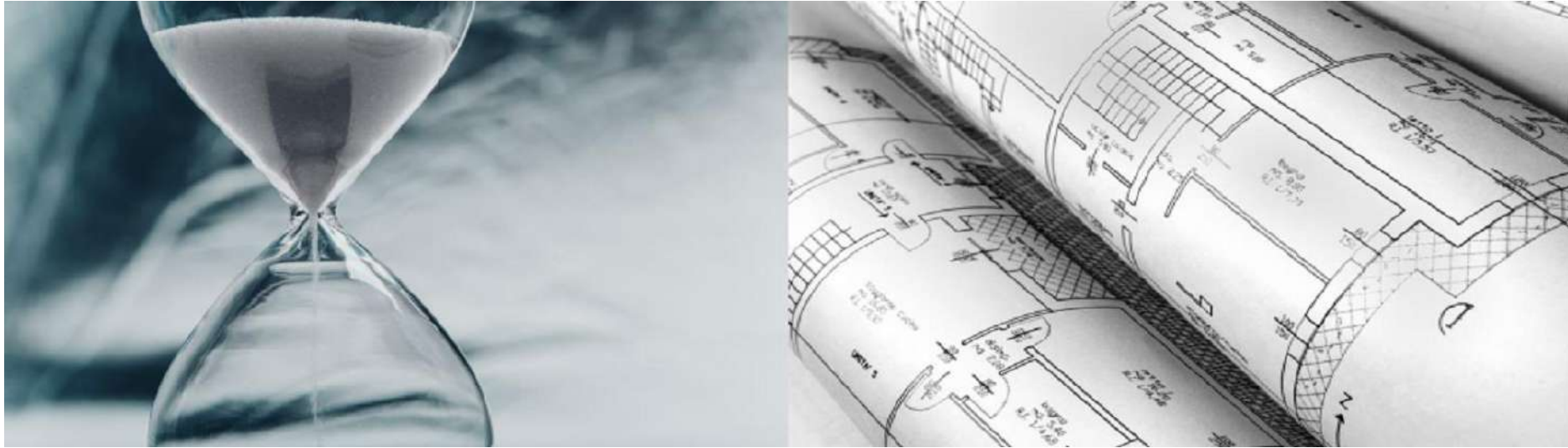
ENch

Drawing on more than 25 years of industry experience, our multidisciplinary approach provides designs with focus on identifying and mitigating HSE risks, for both normal operations and SIMOPS.

Our teams can provide **total project solutions.**

Project Management Services (PMS)

ENch



ENch

ENch Group is a reliable provider of project and construction management services. We work together with our clients to identify their specific requirements in order to form a customized project management plan and team for their project. We can provide a fully integrated approach which includes:

- Cost Estimation • Contract Management
- Planning, Forecasting, Progress
 - Permitting • Monitoring • Value Engineering
- Risk Analysis • KPI Development and Monitoring
- Cost Control • Lessons Learned Workshops
- Document Management (with use of • Commissioning and Commissioning Management ENch Group proprietary web-based EDMS, • Witness, monitoring inspection of welding
- Gescom)HSEQ Management •• Management of site queries Interface Management

ENch

Procurement Services

ENch Group can provide traditional and public procurement specialists to manage our clients procurement, helping them to get the procurement results they need, and to meet their project or corporate strategies, in full compliance with applicable regulations.

ENch Group provides procurement and tendering support to both operators and contractors, including:



ENch

- Procurement Management
- Development of Procurement Strategies and Procedures
- ITT Packages: technical, commercial and legal aspects
- Scope of Work: technical, commercial and legal
- Supplier Qualification, Consultations and Negotiations
- Contract Review and Management
- Tender Clarifications and Evaluations
- Material Management / Expediting
- Post-Order Supplier Follow-Up: commercial and technical
- Inspection and Test Witnessing
- Subcontracts Services
- Support for Capex and Opex Estimations

ENch

Field Services / Construction Management Services (PMS)

ENch Group field services & construction management are designed to meet the client's requirements from the earliest stages of project development - providing the planning and resources to improve productivity, reduce costs and duplication, standardize systems, and finish on time and within budget. We can provide a fully integrated approach which includes:

ENch

- Pre-construction value engineering, recommendations, design review, estimating budgeting and scheduling
- Site management of prefabrication, installation and construction, including cost control and claims management
- Construction supervision
- Management and coordination of the Pre-commissioning, Commissioning and Start-up
- Maintenance Services
- Health and Safety management
- Waste management
- Environmental controls and monitoring



ENch

HSE

HSE, Health, Safety and Environment, is an important component of our overall engineering services and are principal concerns for all industrial activities. Implementing these concerns in design means identifying and eliminating hazards as early as possible in the design phase, before they can become real risks to people, assets and the environment.



ENch

ENch Group provides comprehensive health, safety and environmental engineering. Drawing on more than 25 years of industry experience, our multidisciplinary approach provides designs with focus on identifying and mitigating HSE risks, for both normal operations and SIMOPS.

More than ever industry is emphasizing the need to build plants that are not only efficient in terms of production, but in terms of **maintenance** and **sustainability**, to ensure the long and efficient life of our industrial plants. This need has precipitated the rapid emergence of the concepts that underlie the discipline of **OR&A Maintenance and Integrity Engineering**.

ENch

OR&A, Maintenance and Integrity

Engineering



Thanks to ENch Group early recognition of the importance of OR&A Maintenance and Integrity Engineering we have developed within our organization a team of highly skilled specialized engineers with previous experience in the fields of Operations and Maintenance for large industrial plants. ENch Group therefore provides high quality maintenance engineering services within the framework of a multidisciplinary engineering company. We can provide this particular expertise to our clients as part of a complete multidisciplinary team, as part of an integrated team or as a dedicated task force.

ENch

and more ...



Trenchless Pipeline Removal - Innovation



ENch Group expertise is further evidenced by our recent honour of being awarded the 2015 Global Petroleum Show Innovation in Technologies Award for our **Trenchless Pipeline Removal (TPR)** technology, the only system of its kind in the world.



ENch

QHSE

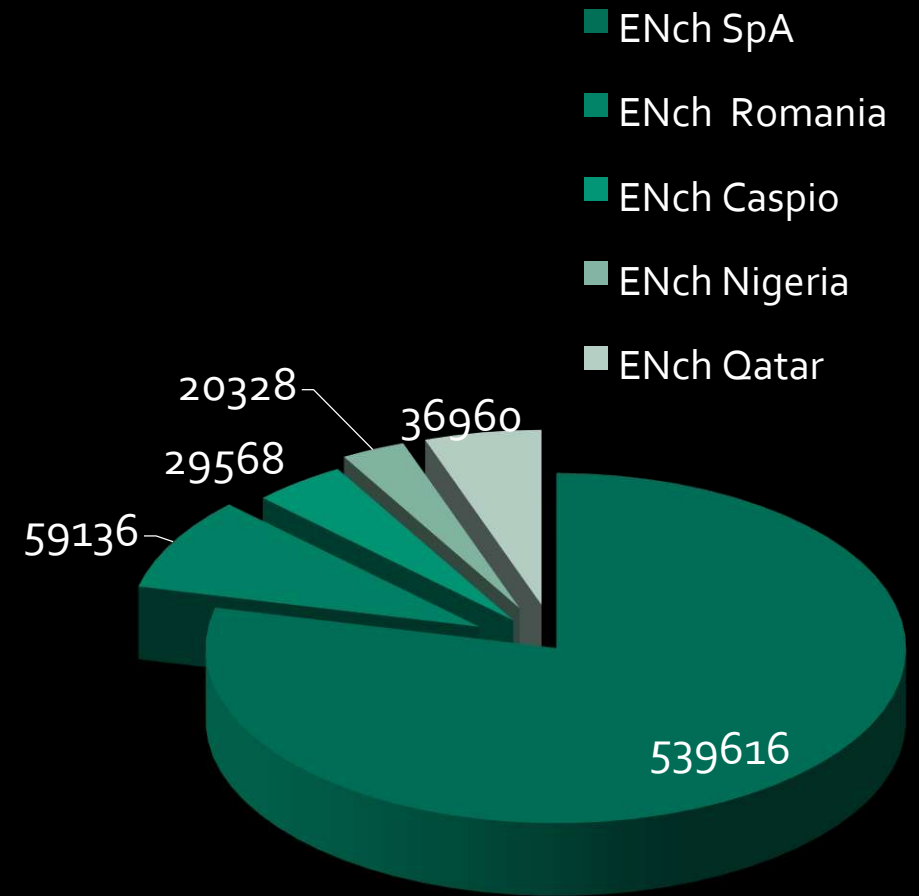


With full awareness of the complexities of the clients' projects and the contexts in which they are carried out, ENch Group has adopted an Integrated Management System (IMS) based on a "Risk Thinking Approach" in order to ensure our clients receive the quality and dependability they expect.

The IMS complies with the objectives and directives defined in ENch Group company policies and meets all the requirements of UNI EN ISO 9001:2008, UNI EN ISO 14001:2004 and BS OHSAS 18001:2007 standards.

ENch

Capacity



The group of ENch Group companies and affiliates is currently able to provide approximately 700 000 man-hours of engineering and project services a year. In addition, our strategic partners throughout the globe, and efficient recruitment process, can significantly increase this number.

ENch

In the World

ENch



ENch

With efficient cooperation between our headquarters, branches and affiliates, ENch Group has established a strong global presence, and carries out projects all over the world.



ENch Experience

Early Production Facilities

Early Production Facility for IDU – Nigeria

ENch

NIGERIA

Client: Alcon for NAOC

Year: 2010- 2011

The Project included the Design Procurement Construction and Commissioning of an Early Production Facility. The EPF included LP and HP separating units, heater, coalescer, storage tank and export pumping station.

The Plant has a capacity of 25,000 bpd of oil obtained through 8 oil production wells. The separated gas was burned in a dedicated flare. The separated water was treated and disposed.

The produced oil was exported through an existing oil export pipeline.

ENCh Group has been responsible for the following:

- Basic Design
- Detail Design
- Detail design of whole prefabricated skids. Whole process equipment have been supply skid mounted as well as the utility systems.
- Prefabrication and construction supervision.
- To made available the crew of engineers needed to carry out the Pre commissioning, Commissioning and Startup of the Plant.
- Management, operation and maintenance for the entire period of operation up to the handover of the plant.



ENCh

Early Production Facility for IDU – Nigeria

NIGERIA

Client: Alcon for NAOC

Year: 2010- 2011



Early Production Facility for IDU – Nigeria



NIGERIA

Client: Alcon for NAOC

Year: 2010- 2011



Early Production Facility at En Naga Field – Lybia.

The Project included the Design Procurement Construction and Commissioning of an Early Production Facility as well as a 100 km long ND 12" oil export pipeline. The EPF included LP and HP separating units, stripping column, heater, coalescer, storage tank and export pumping station.

The Plant has a capacity of 30.000 bpd of oil obtained through 11 oil production wells. Due to the remote location of the plant, the power needed to operate the plant was produced through no. 1 diesel generator and no. 2 gas power generation units feed by the separated gas. The exceeding separated gas was burned in a dedicated flare. The separated water was treated and disposed into a dedicated evaporation pond.

The produced oil was exported through a dedicated oil export pipeline ND12", 100 km long to an existing oil terminal.

ENCh Group has been responsible for the following:

- Basic Design • Management and coordination of the operation and maintenance activities
- Detail Design
- Detail design of whole prefabricated skids. Whole process equipment have been supply skid mounted as well as the utility systems.
- Prefabrication and construction supervision.
- To made available the crew of engineers need to carry out the pre-commissioning, Commissioning and Startup of the Plant.
- Training of the Company's personnel.

Management operation and maintenance for the entire period of operation up to the handover of the plant.

LIBYA

Client: Pireco for Veba Oil Company

Duration: 2001 – 2002



Early Production Facility at En Naga Field – Lybia.



LIBYA

Client: Pireco for Veba Oil Company

Duration: 2001 – 2002



Early Production Facility at En Naga Field – Lybia.



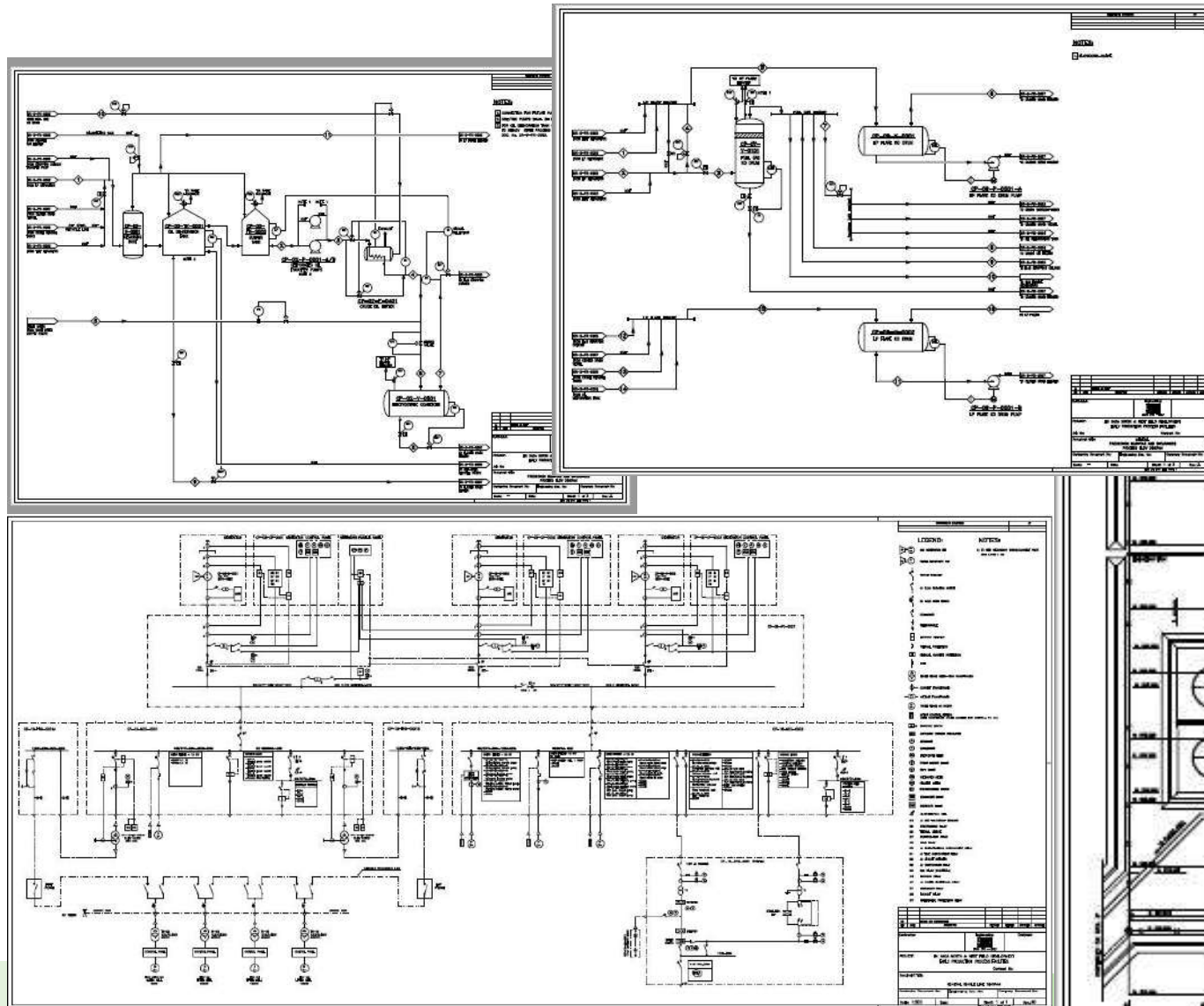
LIBYA

Client: Pireco for Veba Oil Company

Duration: 2001 – 2002

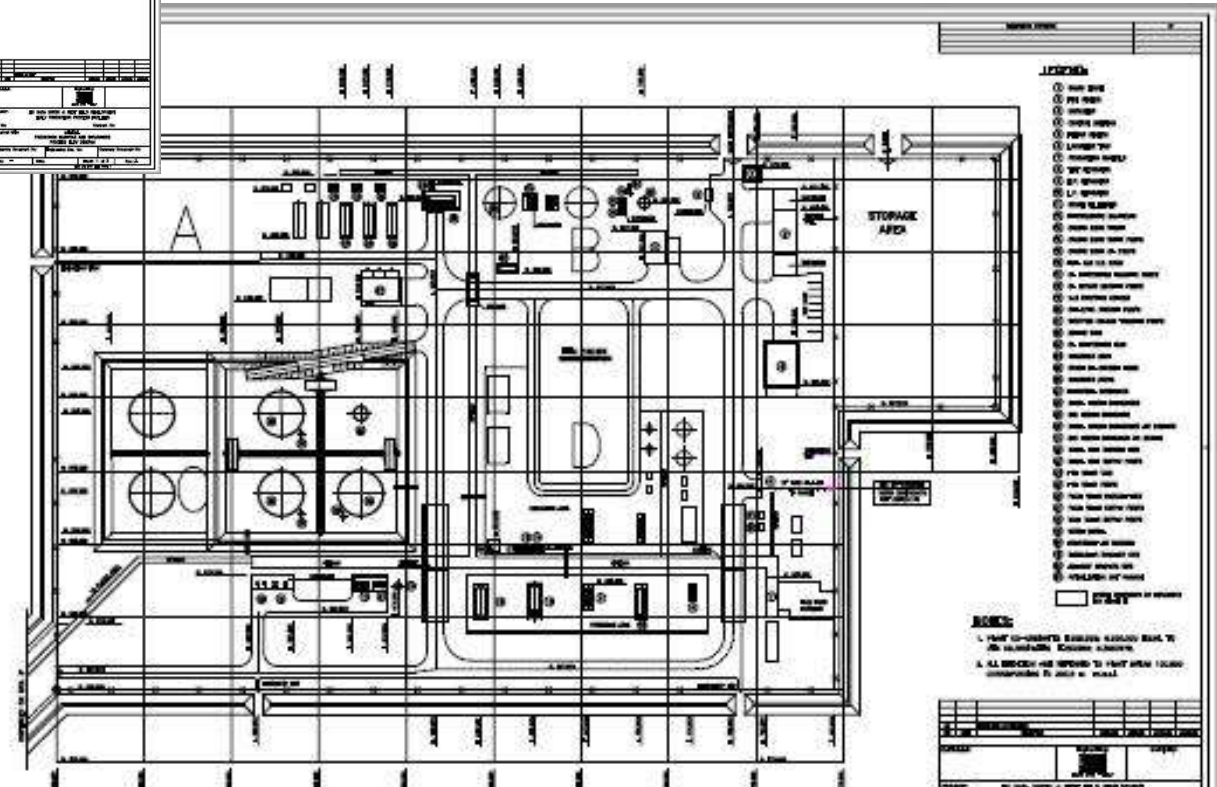


Early Production Facility at En Naga Field – Lybia.



LIBYA

Client: Pireco for Veba Oil Company
Duration: 2001 – 2002





ENch Experience

Engineering & Project management
OIL&GAS ON SHORE PLANTS

Client: Lukoil Mid-East Limited

Final Client: South Oil Company

Duration: 2015-2019

Amount of Contracts awarded: \$ 18,000,000.00

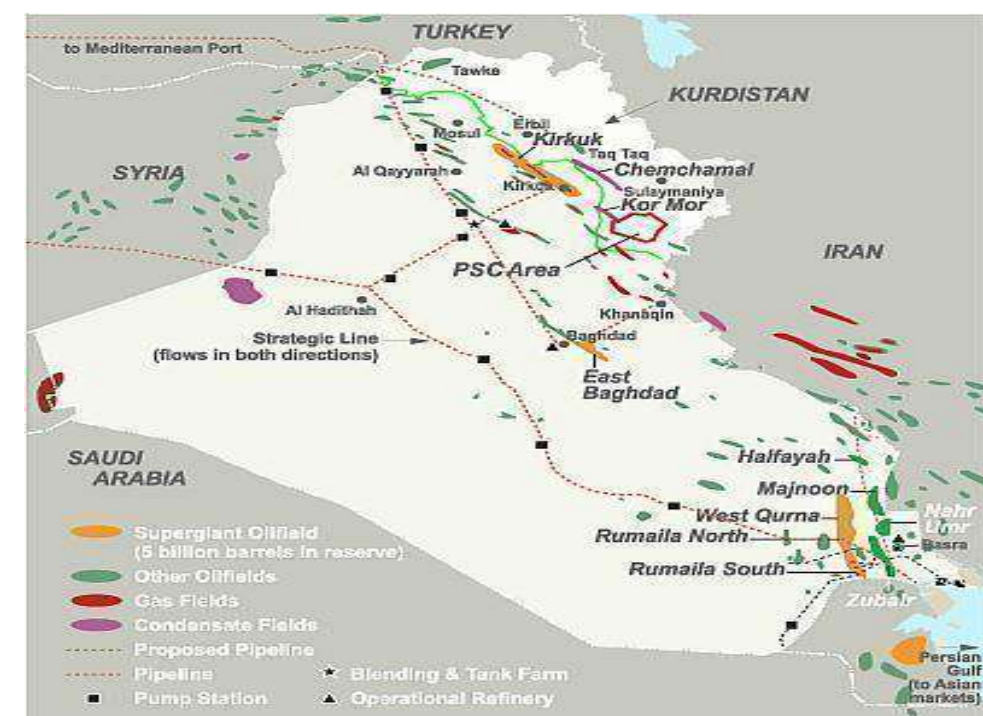
Master Engineering Services Contract (MESC) for West Qurna Field (2nd Phase) Project

ENch Group was awarded with a Master Agreement (named MESC) for the provision of engineering services relevant to development and/or upgrades Projects of West Qurna Field facilities (Iraq), which are managed and operated by the Client (Lukoil) and its partner Iraq's South Oil Company.

The engineering services supplied to the Client under the Agreement of MESC include production facilities, gas treatment, pipelines, power generation and distribution, separation, oil storage, pumping stations, export facilities, and all associated infrastructures.

The services cover technical support to Client on specific issues, performance of engineering works (Feasibility Studies, Front End Engineering and Detailed Design) and Engineering/Project Management jobs.

SOME PROJECTS FOLLOWS.....



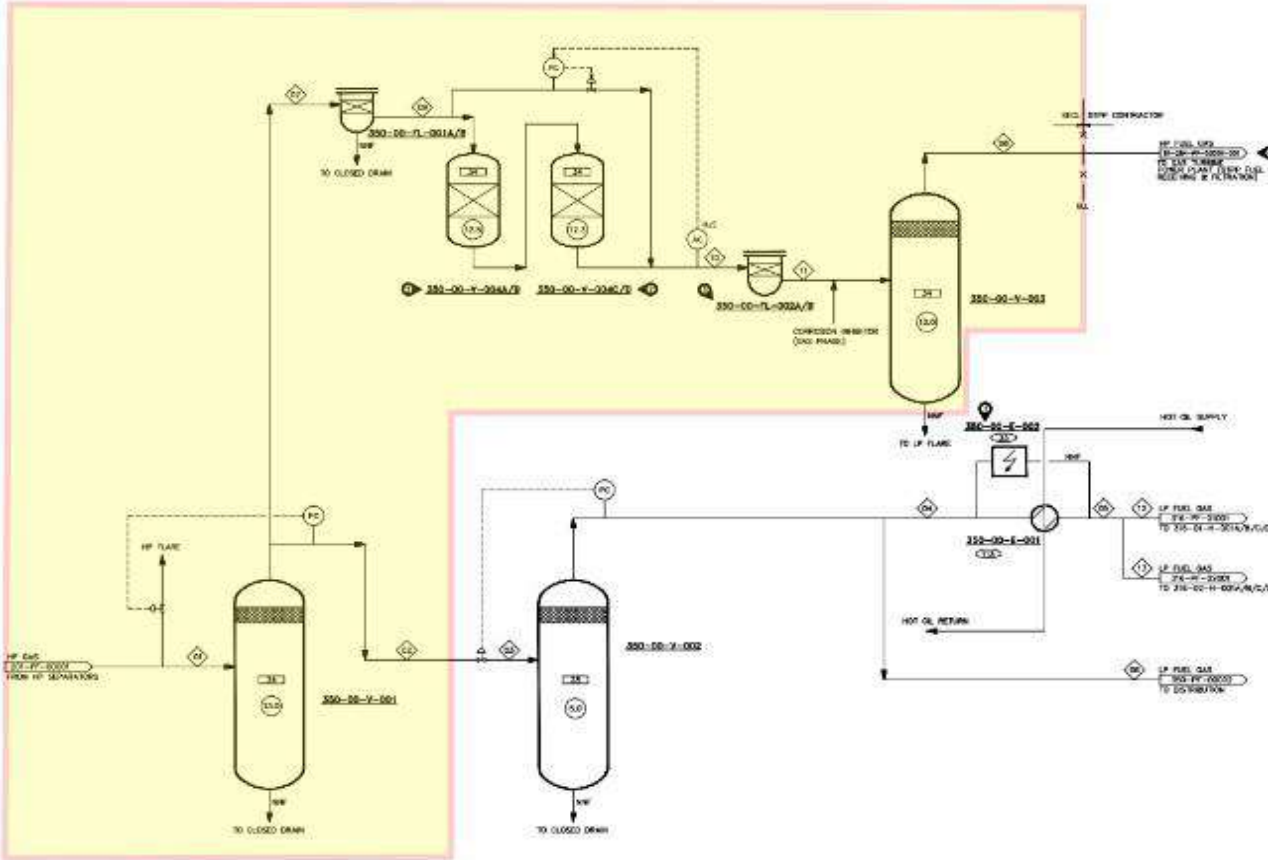
MESC (Service Order 01) - FEED for Existing Gas Sweetening Unit Extension

IRAQ

Client: Lukoil Mid-East Limited

Year: 2016

Contract Value: USD 892 600.00



ENCh Group performed a Technology Evaluation Study followed by the FEED for the Project concerning the expansion of the existing Gas Sweetening Unit of Mishrif CPF, which has the purpose of sweetening increased amount of fuel gas until the GTP is operational, and then serving as back-up unit.

In addition to the preparation of technical deliverables, the scope of work consisted of the production of the technical section of ITB package for the EPC Contract as well as CAPEX Estimation and development of EPC Schedule. The FEED was developed at such level to allow evaluation with sufficient details of key parameters affecting CAPEX and OPEX and to demonstrate compliance with requirements for proven technology, schedule, constructability, operability, maintainability and mothballing.

MESC (Service Order 02) - FEED for Additional Flare System

ENCh Group performed a FEED for a Project of installation of an additional flare stack at Mishrif CPF to be operated in stand-by mode simultaneously with the existing flare.

The FEED scope of work also included the following basic studies:

- Update of reservoir fluid characterization on the basis of last PVT studies;
- Update of processing train H&M balances and Flare loading scenario on the basis of revised reservoir fluid composition;
- Debottlenecking study to highlight limitations of existing system and definition of possible remedies;
- Analysis of troubles affecting existing stacks and definition of possible remedies;
- Feasibility study to define possible solutions for expanding electrical substation serving the flare system.

In addition to the preparation of technical deliverables , the scope of work consisted of producing the technical section of ITB package for the EPC Contract as well as CAPEX Estimation and development of EPC Schedule. The FEED was developed at such level to allow evaluation to allow evaluation with sufficient details of key parameters affecting CAPEX and OPEX and to demonstrate compliance with requirements for proven technology, schedule, constructability, operability and maintainability.

Client: Lukoil Mid-East Limited

Year: 2016

Contract Value: USD 855 500.00



(Service Order 04) – FEED for Additional

– Phase II

ENCh Group performed the Phase II of FEED for a Project of installation of an additional flare stack at Mishrif. This scope of work covered the following issues:

- Design of an electrical substation expansion by implementing the project identified under Service Order 02;
- Installation of a second KO Drum (to be operated simultaneously with the existing one) as per result of debottlenecking study carried out under Service Order 02;
- Replacement of existing blowers on existing flare stack;
- Implementation of other optimization changes identified during the high level studies carried out under Service Order 02

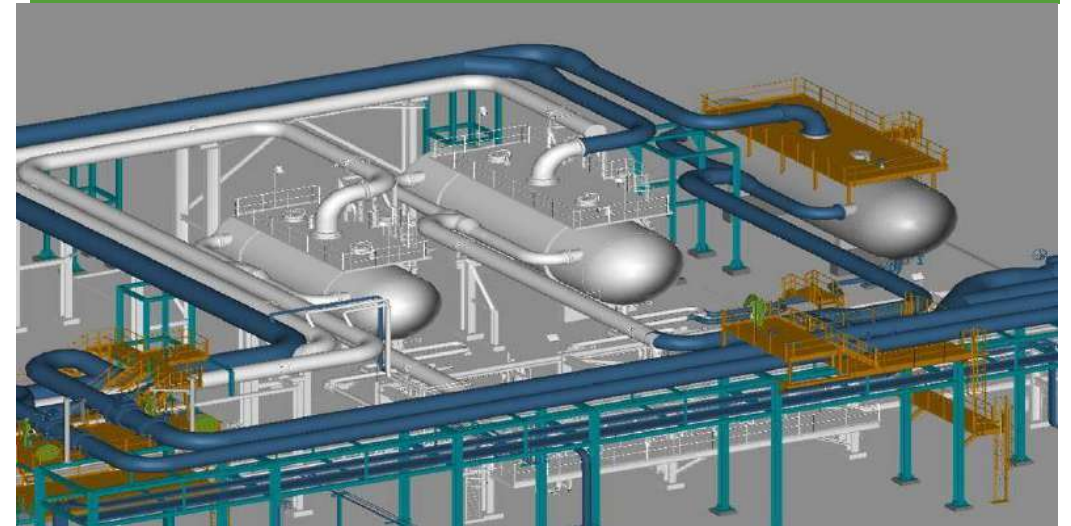
In addition to the production of technical deliverables, the scope of work consisted of producing the technical section of ITB package for the EPC Contract as well as CAPEX Estimation and development of EPC Schedule.

IRAQ

Client: Lukoil Mid-East Limited

Year: 2016

Contract Value: USD 366 400.00



—

MESC SERVICE ORDER 05 Design

Optimization of Wellpad 11/1A

IRAQ

Client: Lukoil Mid-East Limited

Year: 2016

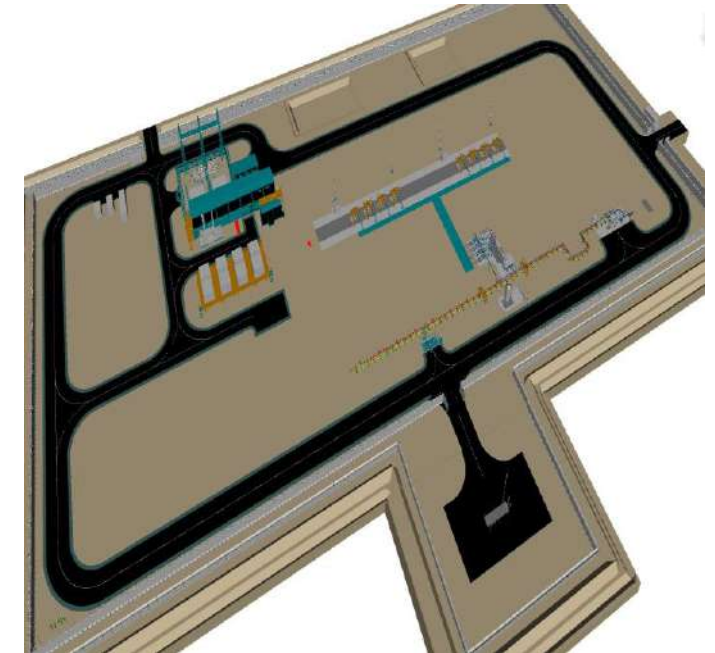
Contract Value: USD 462600.00

ENCh Group performed the optimization of an existing FEED by adding:

- A new wellpad (ie WP 11/1A) including no. 8 ESP lifted wells, Electrical Substation and VSDs for power supply and ESPs driving, Multiphase Meter and Multiport Selector, HIPPS, Launching Trap, and Drain Drum connected to mobile Flare ;
- 132 kV Overhead Line to supply power to WP11/1A;
- A new trunk line for the transfer of the produced fluid to wellpad 05;
- Trunkline receiving trap at wellpad 05 and interconnecting piping with existing pipeline for the transfer of product to CPF;

The particularity of the Project was the requirement for the execution works to be implemented in two subsequent phases, with an early start-up immediately after mechanical completion and provision of basic control and trip system.

In addition to the preparation of technical deliverables, the scope of work consisted of preparing the CAPEX Estimation and development of EPC Schedule.



MESC SERVICE ORDER 10 FEED Update of Wellpads 04 and 09

ENCh Group executed the FEED starting from a concept developed by the Client for the in-subject Project that consists of:

- Two new wellpads (i.e. WP 04 and 09) including no. 26/28 ESP lifted wells, electrical substation (ESS), VSDs for speed control of ESPs, multiphase flow meter (MPFM) and multiport flow selector (MPFS), HIPPSs, satellite instrument house (SIH), launching trap, and drain drums connected to mobile flare;
- Two new trunklines (ND 24", 3.5 and 10.3 / km long) for the transfer of produced reservoir fluid to the existing central processing facility (CPF);
- Upgrade of existing receiving facilities at CPF as necessary for the installation and tie-back to existing production headers of the two new trunkline receiving traps;
- Two new 132 kV overhead lines (3.5 and 12.5 km long) to supply electrical power to WP 04 and 09.

In addition to the preparation of technical deliverables, the scope of work included the preparation of CAPEX Estimation, EPC Schedule and EPC Scope of Work and the execution of the Integrated Cost and Schedule Risk Analysis.

IRAQ

Client: Lukoil Mid-East Limited

Year: 2017

Contract Value: USD 1 000 000.00



MESC SERVICE ORDER 11 FEED of Dammam Decentralised WIF WSWs 19-27

IRAQ

Client: Lukoil Mid-East Limited

Year: 2017-2018

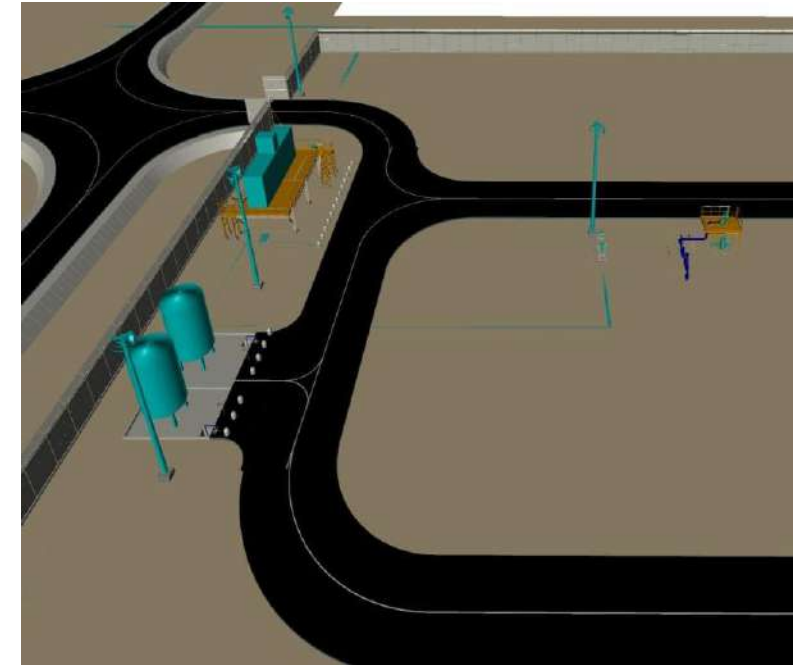
Contract Value: USD 780 000.00

ENCh Group performed the FEED of the in-subject Project that consists of:

- No. 9 ESP lifted water supply wells (WSWs), each with individual wellhead area, VSDs for speed control of ESPs, chemical dosing packages and high pressure lines (1500#) for the transfer of aquifer water to no. 5 nearby production Well Pads (WPs);
- Upgrade works for the above mentioned Well Pads as necessary for the reconversion of some wells from production to aquifer water injection service (installation of distribution header collecting water from WSWs, provision of distribution manifold with flow control/measurement devices, replacement and/or reconversion of flowlines to existing wells);

The particularity of the Project was the upgrade/extension of the existing Cathodic Protection system to provide an overall integrated system for the protection of casing, pipework and buried lines/flowlines of WPs and corresponding WSWs without isolation spools/kits (since not effective due to the high salinity water).

In addition to the preparation of technical deliverables, the scope of work included the preparation of CAPEX Estimation, EPC Schedule and EPC Scope of Work.



FRDP Suplac (CPF and ADS)

The Project scope of works consisted of the revamp of the Air Distribution System and the upgrade of Surface Facilities, including tank farm, of Suplac Field.

ENCh Group carried out the prefeasibility and FEED activities, including HAZOP and SIL.

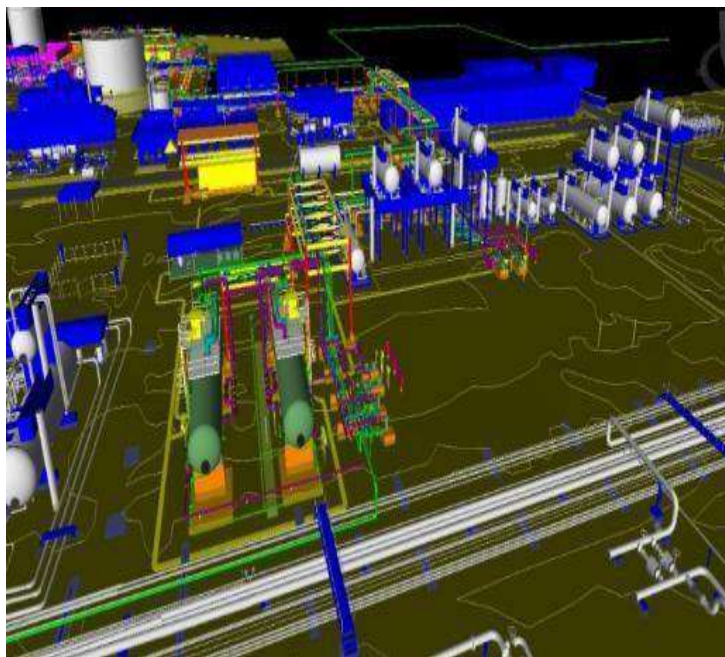


ROMANIA

Client: OMV Petrom

Year: 2012- 2013

Contract Value: € 3 300 000.00



Zubair Oil Field Development Project – Degassing Station (DGS) Modification **IRAQ**

Client: STX Heavy Industries, for ENI

Zubair

Year: 2012-2013

Contract Value: USD 2 460 000.00

The Project scope of work was the revamp of existing Hammar Mishrif and Zubair Mishrif degassing station. The project consisted in all design activities for the renovation and improvement of the Degassing station modification Plant to increase the production up to 700 kBOPB.

The work has been carried out in three phases:

- 1: Conversion of existing trains from dry to wet
- 2: Renewal of water injection system
- 3: Installation of fiscal metering station

ENCh Group carried out the review of FEED design and carried out detailed design including procurement and HAZOP activities.



Storage Expansion Project including Revamping of Water Treatment Facilities at the Erbil Refinery

The project consisted of the expansion of KAR oil refinery facilities located near Erbil, Northern Iraq (Kurdistan). The new storage facilities, including tank farm and truck loading, had to be arranged in for an increased storage of 135,000m³. Also, the existing WWT facility had to be studied for its capacity to service the existing plant and the expansion.

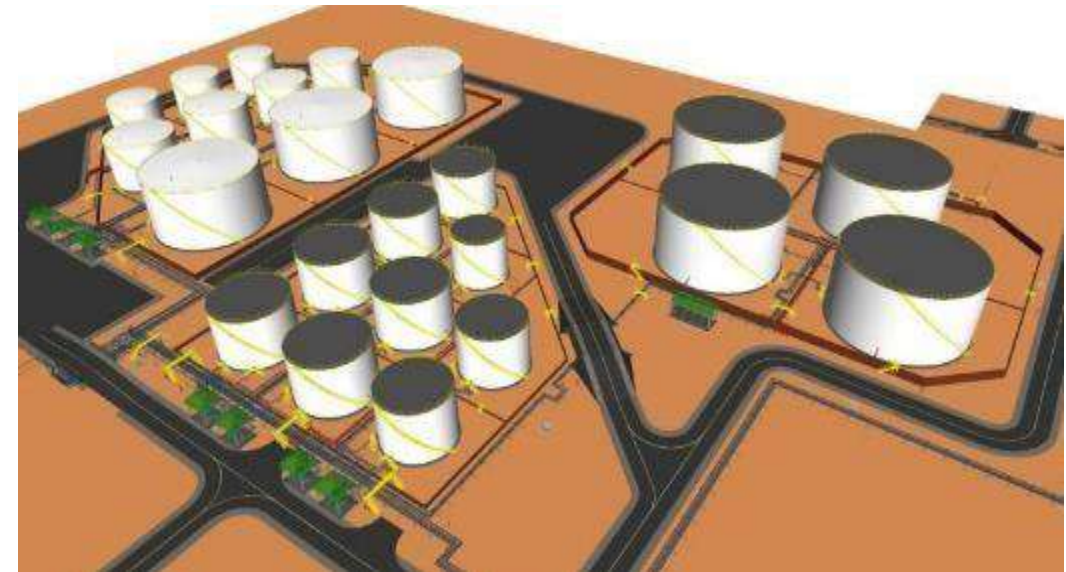
ENch Group carried out multidisciplinary engineering activities (including, Process, Machinery, HSE, Cathodic Protection, etc.) and management to provide the deliverable documents and drawings required to purchase and install the OSBL facilities (engineering details, drawings, datasheets and standards for procurement and installation).

IRAQ (Kurdistan)

Client: Kar Group

Year: 2011

Contract Value: € 1 460 000.00



FEED for Taq Taq CPF Phase II Development



IRAQ (Kurdistan)

Client: TaqTaq Operating Company / TTOPCO)

Year: 2011- 2013

Contract Value: USD 1 700 000.00

The CPF Phase II installation included all necessary processing facilities and utilities, including receiving manifolds, separators, coalescer, heaters, stabilizer columns, gas sweetening unit, vapour recovery unit, crude storage, pumps, civil works, instrumentation, electrical systems, cathodic protection systems and other facilities and systems.

ENCh Group carried out the FEED activities, including technical assistance for the procurement of critical items and evaluation of EPIC Contractors' offers, as well as HAZOP Activities.

Independent Engineering Review for the TTOPCO Central Production Facilities (CPF)

IRAQ (Kurdistan)

Client: TaqTaq Operating Company /
TTOPCO)

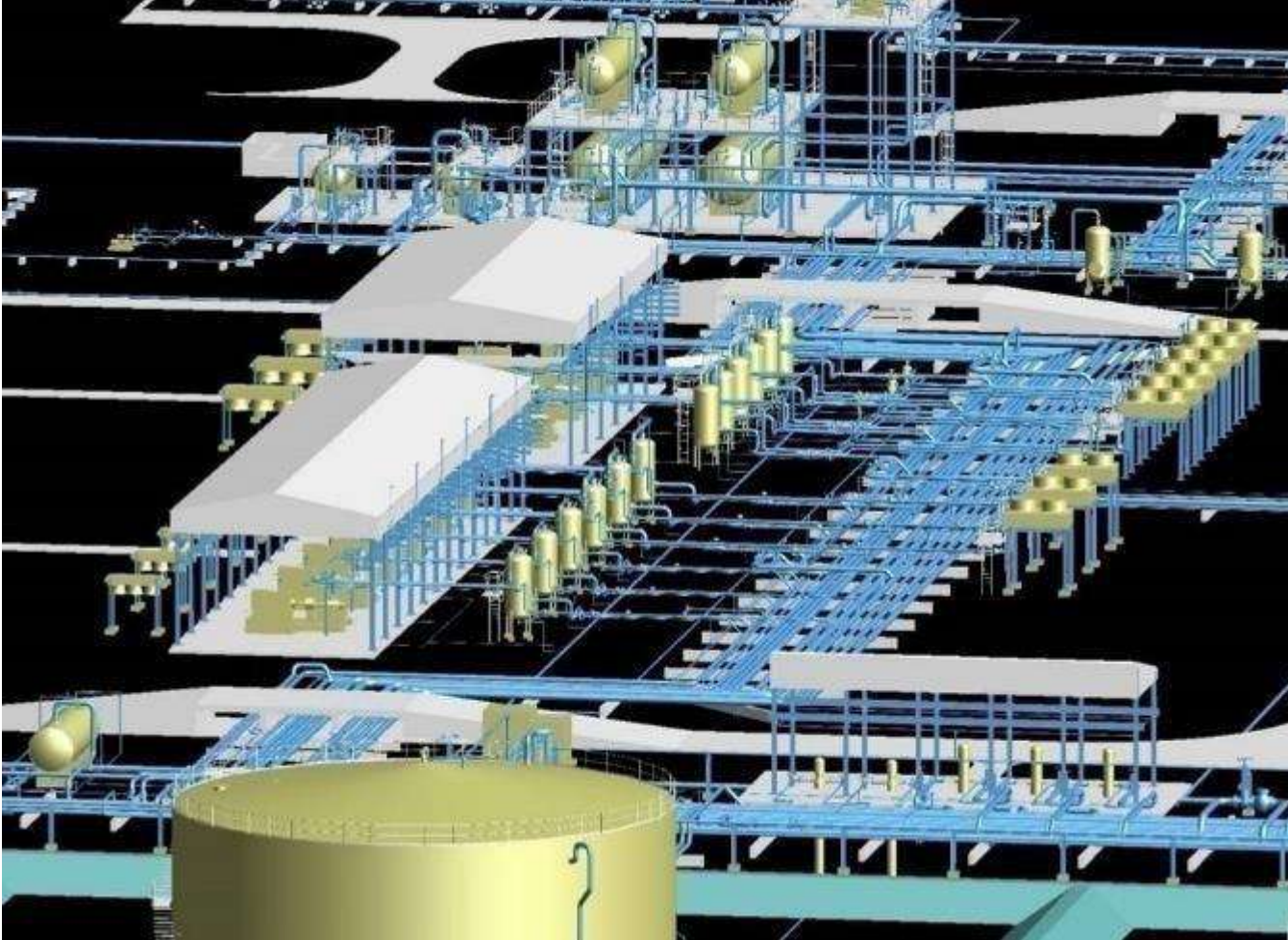
Year: 2011

Contract Value: USD 80 000.00



The Project consisted of the performance, appraisal and fit-for-purpose review of facilities, recently designed by Others and not properly performing, and study of the possible and effective solutions to fix the troubles in terms of unsuitability to separate water from the wells and excessive discharge of medium hydrocarbons to flare resulting in flooding of flare KO drums and black smoke.

Luhais & Subba Field Development Project



IRAQ

Client: JV Petrel Resources -
Makman

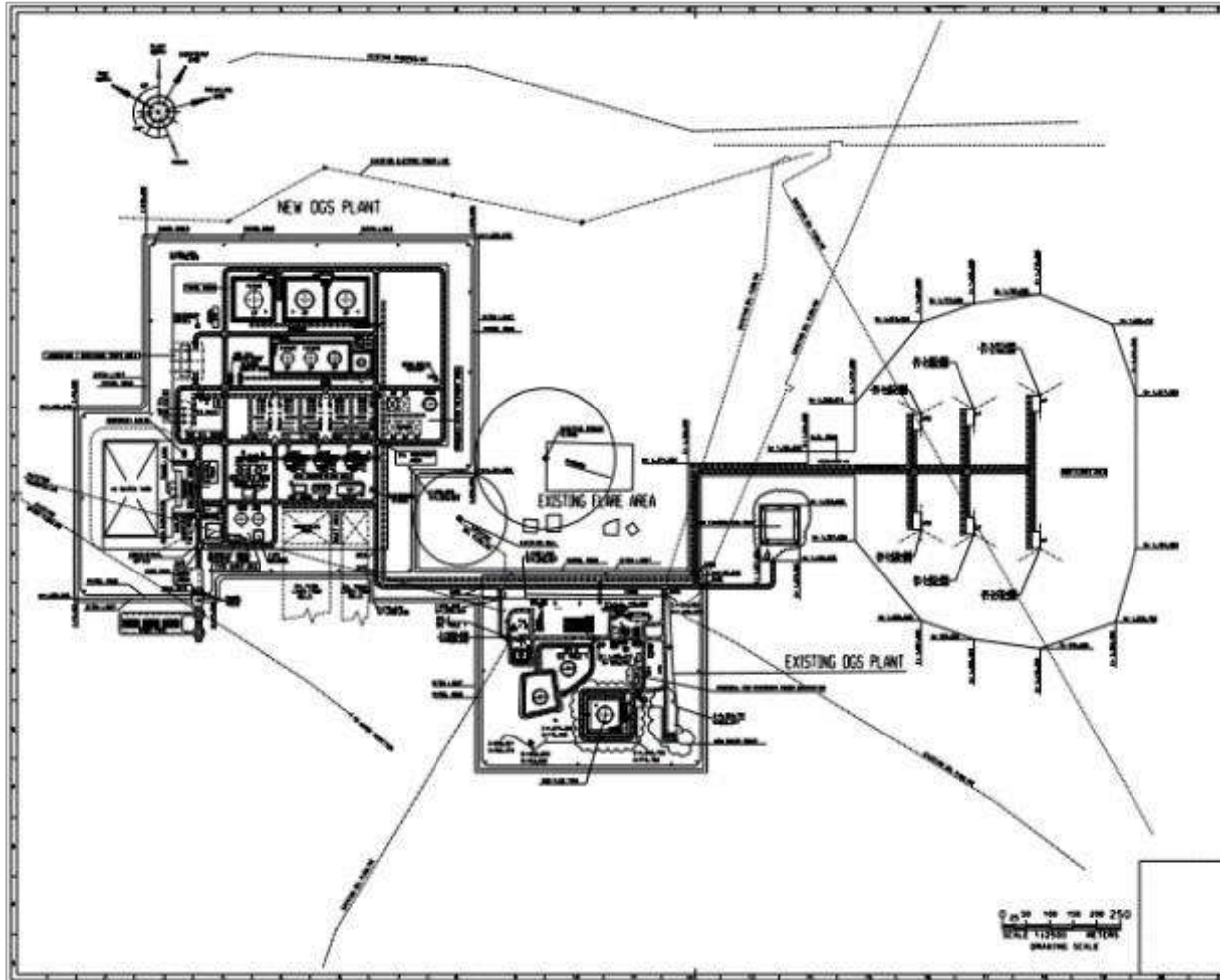
Year: 2005 – 2008, 2010 - 2013

Contract Value: € 10 500 000.00

This major Field Development Project consists of a grass roots GOSP of 100,000 bbl/d capacity and relevant satellite flow-station as well as the revamping of an existing 50,000 bbl/d capacity GOSP and its satellite flow-station in order to increase production to 150,000 bbl/day (including tank farm).

ENCh Group carried out all basic and detailed design activities, procurement assistance, vendor post-order follow-up and expediting assistance.

Zubair Oil Field Development Project Hammar DGS Plants



IRAQ

Client: Saipem, for Eni Zubair

Year: 2010- 2011

Contract Value: € 2 450 000.00

The project consisted of the construction of new facilities along with the revamping of existing facilities to meet the RP (Rehabilitation Phase) production rate of 125.13 KPOPD and the ER (Enhanced ReDevelopment) production rate of 225.80 KBOPD for Hammar DGS.

ENCh Group carried out the complete FEED project.

Framework Agreement for Engineering, Procurement Services and Construction Management (EPCM) for Surface Facilities

Many of the Romanian onshore fields have been in operation since the middle of the last century. During this period, the operations were executed with proven technologies and processes without putting particular emphasis on continuous improvements, as a result by the early 2000s, many of the existing facilities, technologies, and processes in the fields were outdated and not complying with latest norms / standards.

To improve the current situation, OMV Petrom decided to initiate several field re-development programs (FRDP) for the high potential of onshore and offshore fields in Romania. The primary objectives of the programs were to:

- Maximize and accelerate incremental oil and/or gas production with enhanced recovery processes,
- Unlock new reserves with new technology,
- Improve efficiency of operations and reduce operational expenses,
- Ensure compliance with environmental regulations,
- Improve working environment for personnel according to HSE criteria

Within this important initiative, ENch Group scope of work was to carry out: pre-feasibility studies, feasibility studies, FEED, detailed design, procurement services and construction management.

ENch Group carried out these activities successfully over a total of more than 40 individual projects over the 4 year framework agreement duration, for a total of appoximately 30 million euro in value.

SOME PROJECTS FOLLOWS

ROMANIA

Client: OMV Petrom,
Romania

Duration: 2011-2015

Amount of Contract awarded:
40,000,000.00 €



FRDP Suplac (CPF and ADS)

The Project scope of works consisted of the revamp of the Air Distribution System and the upgrade of Surface Facilities, including tank farm, of Suplac Field.
ENCh Group carried out the prefeasibility and FEED activities, including HAZOP and SIL.

ROMANIA

Client: OMV Petrom

Year: 2012- 2013

Contract Value: € 3 300 000.00



FRDP Videle G2



ROMANIA

Client: OMV Petrom

Year: 2012- 2013

Combined Contract Value: € 4 500 000.00

The VideleVest structure is divided into 24 blocks. G2 occupies the most eastern part of VideleVest structure and covers 13.4 km² area.

The FRDPVidele shall increase the oil production and recovery factor by polymer injection in block G2 (Sarmatian 3ab), in field VideleVadu Lat (Gold 2).

The objective of this project is to provide all required subsurface and surface facilities and infrastructure, including tank farm, associated with Videle Field Block G2 Redevelopment.

To increase the reservoir pressure and to move the high viscose polymer front a quantity of 2500 m³/day will be injected.

Under various contracts ENch Group carried out all the prefeasibility, FEED and detailed design as well as procurement services, including the preparation of ITB / SOW documentation for EPC and construction contracts..

FRDP Totea



ROMANIA

Client: OMV Petrom

Year: 2012- 2013

Contract Value: € 2 350 000.00

This project was a Gas Treatment Plant located in the Totea field. The major project contents include the well site facilities and flowlines, gas/liquid separation and accommodation of the potential slug from the well flowlines, accomplishment to sales gas specifications (water and hydrocarbon dew points) sales gas export, condensate stabilization, storage (tank farm) and export, collecting and treatment of produced water to achieve reinjection requirements and treated water export.



ENCh Group carried out the Pre-feasibility study, engineering activities, FEED, to define the basis of design and perform the CAPEX estimation (simulations, preliminary equipment sizing report, process flow diagram, P&IDs, equipment data sheets and package specifications). During the prefeasibility study, various options for the gas conditioning were examined. In particular, the TEG unit and the MEG injection unit have been evaluated for the water dew point control, while the Joule-Thomson effect and the mechanical refrigeration system (e.g. the refrigeration chiller) were performed by means of Hysys to achieve the hydrocarbon dew point of the gas.

ITALY

Client: GNL ITALIA

Years :2016-2019

Contract Value: €2,000,000.00

MASTER AGREEMENT SERVICES FOR ENGINEERING & SUPERVISION ACTIVITIES

GNL ITALIA is the oldest regasification plant in Italy located at Porto Venere (SP). The plant consist of a jetty for LNG ships; 2 LNG tanks storage of 50,000 m³, vaporization units, methane pipeline to connect the SNAM RETE GAS grid pipeline.

ENch Group has been requested to carry out the all engineering activities regarding the modification/maintenance of the whole plant facilities.

Moreover ENch Group is in charge to provide the services under the D.LGS 81/2008 also the supervision of the construction activities as well the assistance with the local authority for the environment and safety matters.





ENch Experience

Engineering & Project management
OIL&GAS ON SHORE PIPELINE
SYSTEM

Framework Agreement for Pipeline Engineering & Project Management Services (PMS)

Within the context of ENch Group framework agreement with Snam Rete Gas, Italy's leader in the transport and dispatching of natural gas, we carry out numerous projects requiring engineering and project management services. The table below presents some ENch Group contracts for project / construction management services (pipeline), carried out, or concluded, within this framework agreement.



Line	ND (inches)	DP (bar)	Length (km)	Year
Gas pipeline Minerbio – Pioggio Renatico	48			2014
Gas pipeline Vercelli – Cavaglià	16	75	22	2014
	20	12	16 860	
Gas pipeline Gavi – Pietralavezzara	16	75	22 401	2014
	16	24	1500	
	16	24	2150	
Gas pipeline Biccari - Campochiaro	48		20 978	2014

Nawara Pipeline Project



TUNISIA

Client: JV Bouchamaoui Industries- Max Streicher SPA

Final Client: OMV

Year: 2014- 2019

Contract Value: € 4 000 000.00

The objective of the Nawara Development Project is to recover the associated and non-associated gas reserves from the Nawara Concession. ENCh Group is carrying out the detailed design activities as well as technical procurement support and field activities for:

- 1: Gas Pipeline ND 24" from Nawara to Gabès GTP (KP 0 - 370) from pig launcher at Nawara CPF to

the pig receiver at Gabès GTP, including n. 12 break line valve stations.

2: Condensate Export Pipeline ND 6" (KP 0–12) from Nawara pig launcher to a tie-in point (hot tap) on the existing TRAPSA pipeline. ENCh Group carried out the detailed design and supports the client's procurement department, carrying vendor list vetting, preparation of ITT packages (commercial and technical documents), management of vendor document flow, technical bid evaluations and post-order supplier document follow-up and review.

Ragusa-Gela Oil pipeline

This feasibility study concerns a new pipeline (10", 55km) designed to carry oil from the "Centro Olio ENIMED" at Ragusa to the ENI refinery at Gela, with retrofitting of the concerned existing plants and interfaces, the mechanical connections necessary, and the addition of essential equipment necessary for the safe operation of the line. The study included a CAPEX estimation and a preliminary project report for presentation to the interested authorities.



ITALY

Client: Eni Mediterranea Idrocarburi S.P.A.

Year: 2014

Contract Value: € 207 000.00

Cervignano-Mortara Natural Gas Pipeline

ND 56", DP 75 bar, 61 km

The project consists of the basic and detailed design to replace an existing natural gas pipeline as well as the replacement and of a series of branch points.

ENch Group activities included the feasibility study, basic and detailed design and site surveys.

ITALY

Client: Snam Rete Gas

Year: 2011- 2014

Contract Value: € 3 814 000.00



LPG pipeline LZ2 24" Hassi R'mel-Arzew

The project consisted of a new 24" pipeline, about 500 km long, to convey LPG at a flow rate of 6÷9 MTA (1350÷ 2025 m³/h). The project also included:

- a new pumping station for the new 24" (LZ2) and existing 24" (LZ1) pipelines located at Hassi R'mel, complete with high grade filtration system (cartridge and basket filters).
- 1 pig launching and receiving station.
- 1 pig launching and receiving station with emergency block valves at Sougueur.
- 29 block valves.
- pressure reducing/control at Arzew station.

ENCh Group carried out the bid engineering, basic and detailed design, assistance to procurement activities, supplier follow-up and expediting assistance as well as electric and mechanical works supervision (PMS). Also included: HAZOP and water hammer analysis.

- HSE PLAN (Master Plan & Plan for the engineering activities)
- HSE PHILOSOPHY
- HAZID
- RISK ANALYSIS ("Etude de danger" following the "Sec.4 du Decret Executif n° 06-198 du 4 Joumada El Oula 1427 ")
- HAZARDOUS AREA CLASSIFICATION
- Documentation related to the general safety (system of protection), pressure vessels and electrical installations (DOSSIER DE SECURITE')

ALGERIA

Client: Saipem for Sonatrach

Year: 2007- 2009

Contract Value: € 5 078 000.00



A photograph of a mountain landscape. In the foreground, a stack of several large, light-colored, irregularly shaped stones is balanced on top of each other. The background shows a vast, hazy mountain range under a clear blue sky. The text is overlaid on the left side of the image.

ENch Experience

Engineering & Project management
OIL&GAS OFF SHORE PIPELINE
SYSTEM

Offshore Pipeline – Fauzia, Elettra and Benedetta Fields (Adriatic Sea)

ITALY

Client: ENI E&P

Year: 2010- 2012

Contract Value: € 510 000.00

The development of Fauzia, Elettra and Benedetta Fields in the Adriatic Sea includes the installation on new sea lines and risers to connect the existing platforms.

ENCh Group carried out the basic and detailed design of sea lines and risers, including the preparation of documents for permitting and the tender documents for purchase of main items, installation and pre-commissioning.

ENCh Group was also in responsible for procurement support, providing technical clarifications during the bidding phase and technical advice.



CHINA

Client: CACT (CNOOC-Chevron
Texaco)

Year: 2009- 2010

Contract Value: € 1 350 000.00

Design for the Replacement of two Sea-Pipelines

The project involves the replacement of 2 damaged oil flowlines ND 10"-12" (7 km and 35 km long respectively, 120 m mean depth, high pressure and temperature), connecting no. 2 production platforms to the FPSO in the South China Sea (100 miles far from the coast).

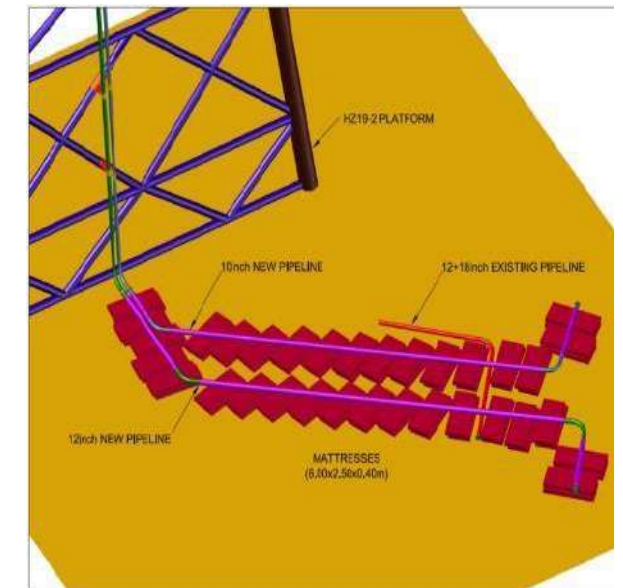
ENCh Group carried out the Feasibility Study for the project and the detailed design of the new flowlines, including:

Steady State and transient process study

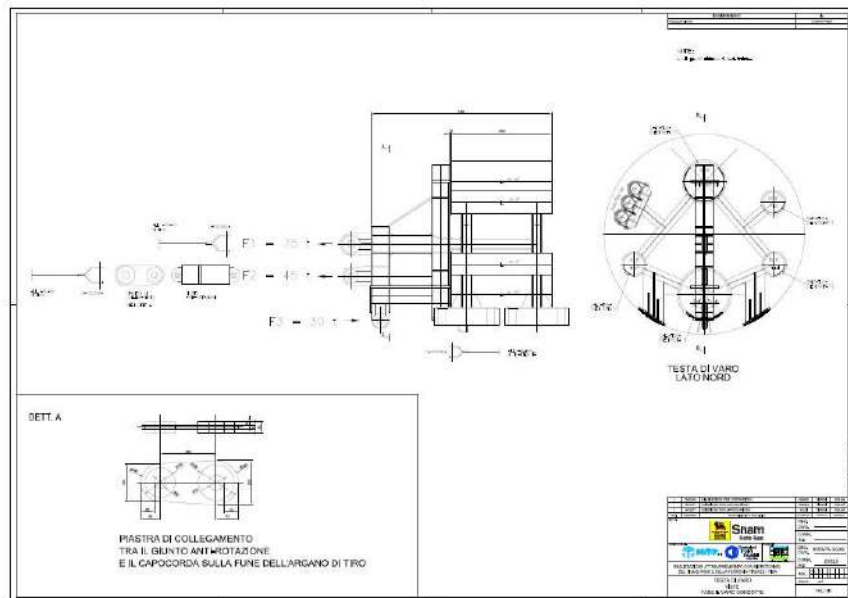
Corrosion study, material selection and material purchase specifications detailed

design of pipelines, connection Z-spool, and risers (including clamps)

detailed design of PLEM before FPSO connection detailed design of topside and subsea pig traps.



Micro-tunnel Crossing of the Arno River



The project aim was to increase oil production from the Gbaran Ubie node while compressing the Associated Gas (AG), and developing Non-Associated Gas (NAG) reserves to supplement gas quantity requirements to the NLNG plant in order to ensure security of gas supply.

ENCh Group carried out the basic and detailed engineering design for all pipelines (including flowlines, bulklines and export lines for a total length of about 350 km) as well as site surveys, procurement services, Vendor

follow-up, expediting, supervision during construction and management of the commissioning and start-up activities for the multiple and contemporary microtunnel crossing.

ITALY

Client: Snam Rete GAs

Year: 2007- 2008

Contract Value: € 104 500.00



Natural Gas Pipeline "Trieste-Grado-Villesse" Sealine "Trieste-Grado" ND800 (32"), DP75 bar, 27 km

ITALY

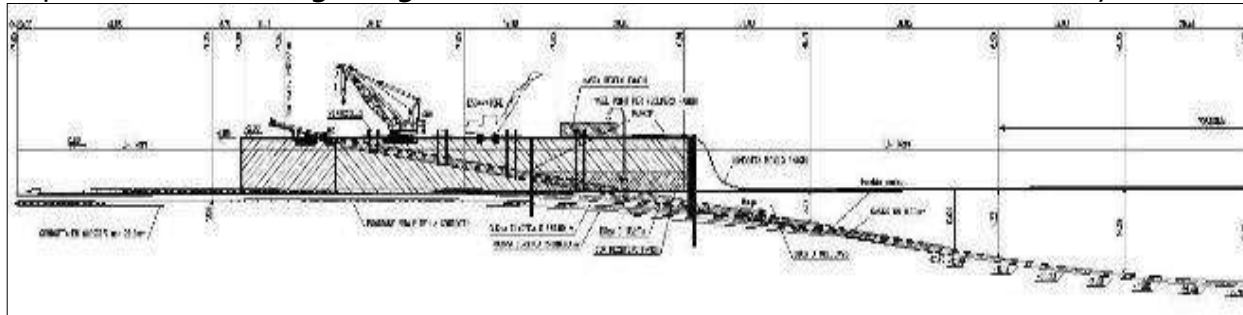
Client: Snam Rete Gas

Year: 2008- 2009

Contract Value: € 1 030 000.00

The project involves a new natural gas pipeline in the gulf of Trieste connecting the Liquefied Natural Gas installation of Trieste to the terminal of Grado. The design also included an HDD (1,6 km long) at the landfall site in Grado.

ENCh Group carried out the basic and detailed design, site surveys, site supervision (PMS), geological and seismic studies, EIA. and Risk Analysis.



KAZAKHSTAN

Client: Saipem for AGIP KCO

Year: 2004 - 2007

Contract Value: € 2 500 000.00

Experimental Program Project Trunk & Production Pipelines – Kashagan Project

The project consisted of the engineering, procurement, installation and commissioning of four onshore – offshore pipelines (n.2 ND 18" and n.2 ND 28"), one umbilical and some other cables that will connect the offshore artificial islands with the onshore Gas Oil Separation Plant.

ENch Group carried out the basic design review and detailed design. ENch Group also coordinated and supervised the site surveys conducted by a local subcontractor.





ENch Experience

Engineering & Procurement

Engineering & Procurement of Effluent Water Treatment Unit at Zubair I Tank Farm

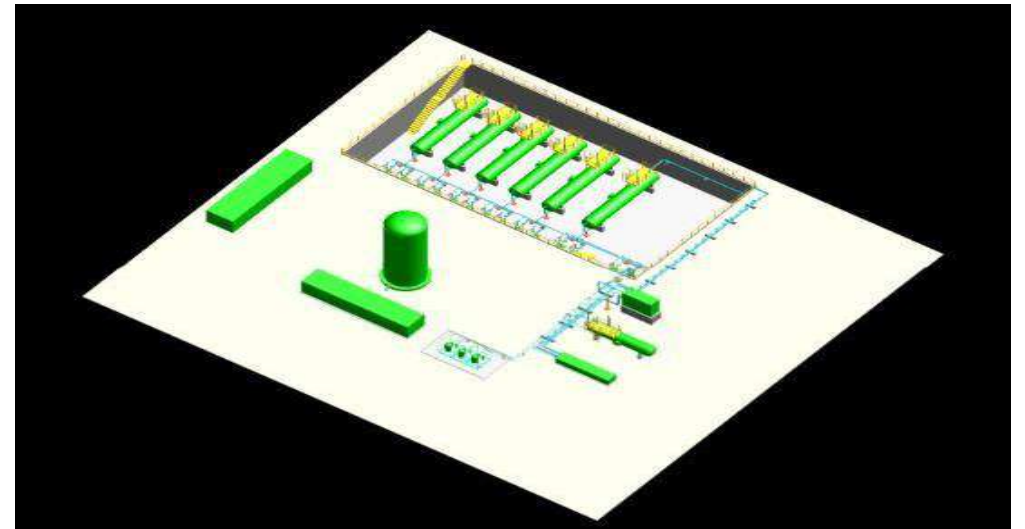
The project consists of the engineering and procurement of a water treatment unit for Zubair I tank farm, including accumulated tanks and re-pump to the WTU where the separated oil will be returned to the oil storage tank while the produced water will be stored for SOC re-use. Project includes also CPI and IAF Unit, control system, electrical and control room, instrumentation for monitoring existing floating roof tanks and a reverse osmosis unit with tank for treated water storage.

ENCh Group is carrying out basic and detailed design, vendor selection, procurement, expediting and delivery to SOC Warehouse (Iraq) of the water treatment unit and related equipment.

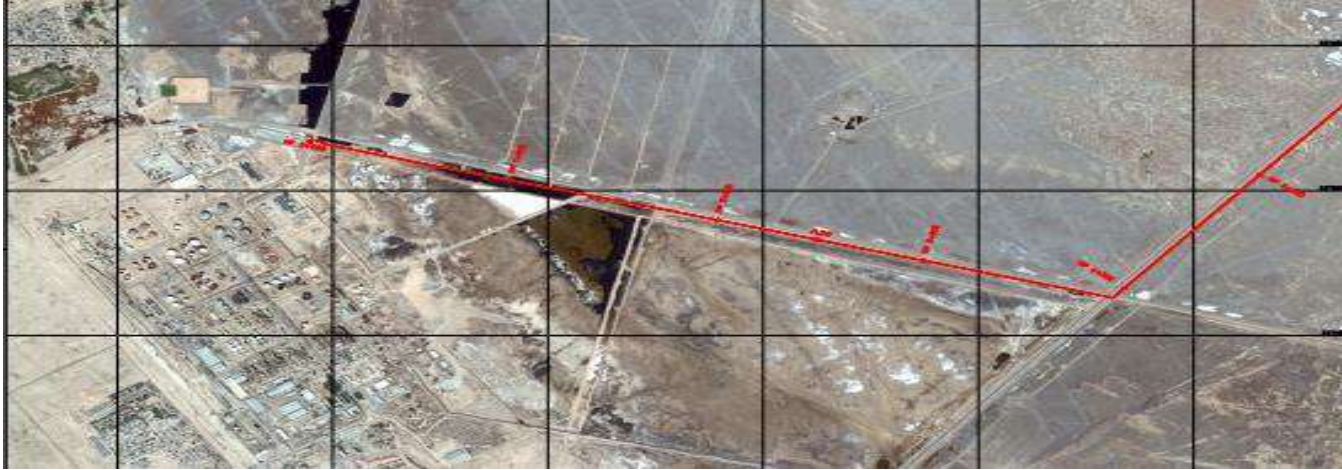


IRAQ

Client: South Oil Company



Design and Supply of Fuel Oil Pipeline from Shuaiba Refinery to Shatt Al-Basrah Power Station



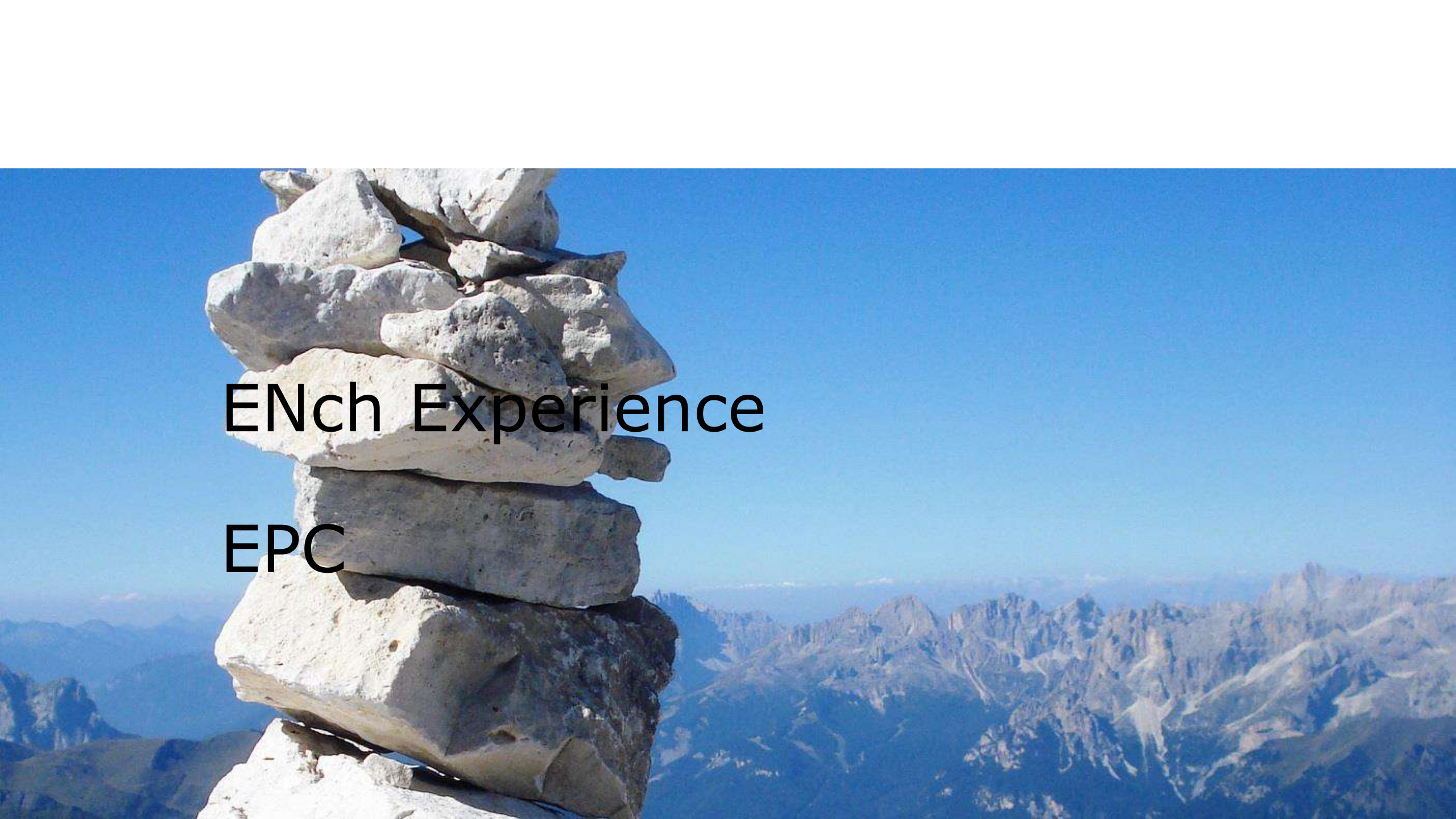
ENCh Group scope of work consists of the design, procurement and delivery of the 12" pipeline to transfer fuel oil from Shuaiba Refinery to Shatt Al-Basrah Power Station in south of Iraq, as well as supervision of the installation, commissioning and test run.

The pipeline is roughly 10 km long and consists of both above ground and buried sections.

IRAQ

Client: SCOP, Iraq





ENch Experience

EPC

EPC for the Central Gas Treatment Plant at San Potito and Related Network

Padana Energia S.p.a. and Enel Longanesi Developments S.r.l. are the owners of this EPC project related to the development and production of hydrocarbons in the gaseous "Longanesi field".

The EPC contract for the "Longanesi" project covers:

- Putting into production of 5 high pressure gas wells, subdivided into three clusters
- Construction of a gas treatment
- Construction of a collection network comprised of pipelines for the transport of gas, produced water and glycol, as well as the electrical power cables and fiber optic cables.

ENch Group and Max Streicher are requested to execute the project management, permitting, detail design, supply of whole materials and equipment, logistic, prefabrication,

construction and erection, inspection and testing, pre commissioning, commissioning and start up and any other activity required to complete the plant, including the training of the operators.

ITALY

Client: Padana Energia s.p.a. & Enel Longanesi Developments S.r.l.



Trans Adriatic Pipeline (TAP): Onshore Pipeline

The joint venture comprised of ENch Group S.p.a. and Max Streicher S.p.a. was awarded the contract for Engineering, Procurement and Construction (EPC) for the onshore pipeline in Italy (8-kilometre, 36-inch diameter), which will connect the project offshore section at the landfall with the Pipeline Receiving Terminal (PRT).

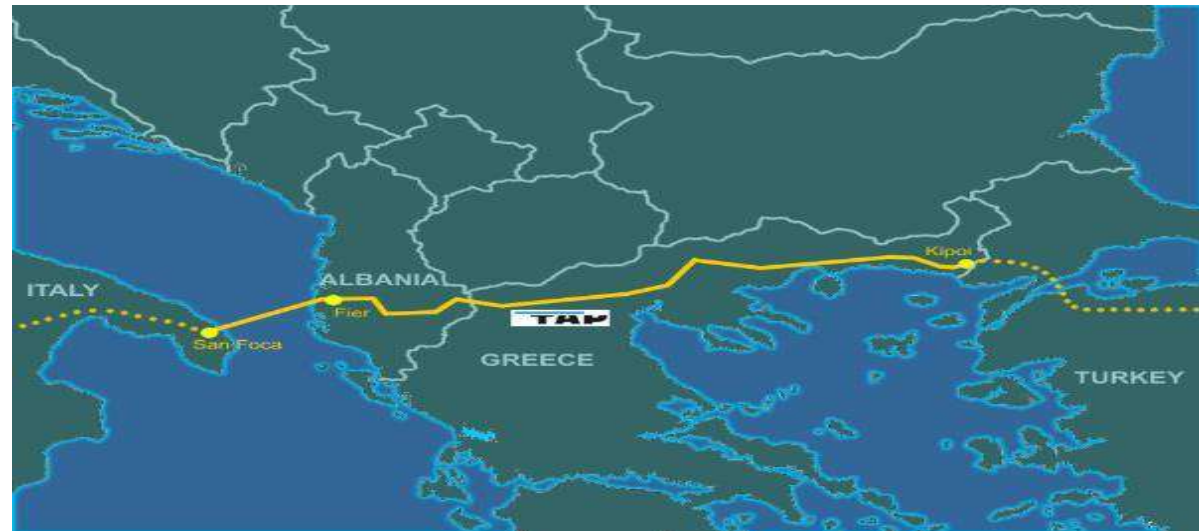
TAP will transport natural gas from the giant Shah Deniz II field in Azerbaijan to Europe. The approximately 878 km long pipeline will connect with the Trans Anatolian Pipeline (TANAP) at the Turkish-Greek border at Kipoi, cross Greece and Albania and the Adriatic Sea, before coming ashore in Southern Italy.

There will be a block valve station in the vicinity of the landfall and a Pipeline Receiving Terminal (PRT) in the municipality of Melendugno, 8.2 km away from the coast and protected areas.

ENch Group and Max Streicher are requested to execute the project management, permitting, detail design, supply of the materials and equipment, logistic, prefabrication, construction and erection, inspection and testing, pre-commissioning, commissioning and start up and any other activity required to complete the plant, including the training of the operators.

ITALY

Client: Trans Adriatic Pipeline



EPIC for Multicrystalline Photovoltaic Plant (400 kWp)

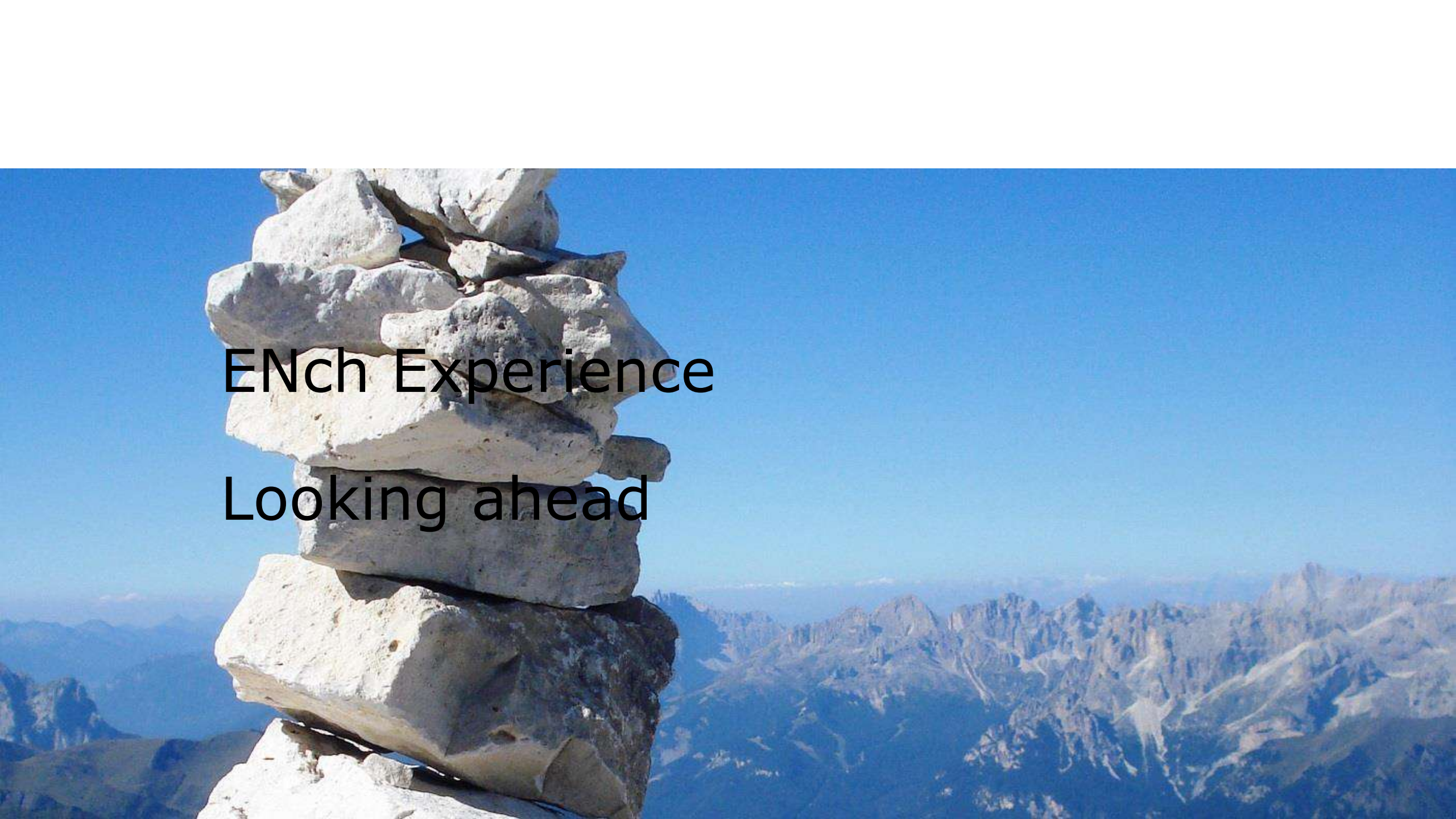
ENCh Group carried out the engineering, supply and installation of a photovoltaic plant consisting of polycrystalline silicon modules, with a nominal power of approx. 400 kWp.

- Annual Production: 484.000 kWh
- Power of the Plant: 397,21 kWp – Grid Connected
- Budget for the Investment:
1.500.000,00 €
- Total Annual Revenue: 220.000,00 € • Expected Revenue in the first 20 years:
3.700.000,00 €
- Economic Payback Time for the Investment: 5 years.
- Return on Investment (ROI): 9%
- Surface Covered by plant: 20.000 m²
- Surface Covered by the Modules : 2800 m²

ITALY

Client: Fondazione Agraria Cante di Monteverchio



A photograph of a mountain landscape. In the foreground, a stack of several light-colored, irregularly shaped rocks is balanced on top of each other. The background shows a vast, clear blue sky and a range of rugged, rocky mountains in the distance. The overall scene conveys a sense of achievement and looking forward.

ENch Experience

Looking ahead

EPC FOR LNG/CNG FILLING STATION

The filling station, located at Interporto of Padova, is subject to an expansion on the same site; as a consequence the facilities installation is divided in two stages, named Phase 1 and Phase 2.

The scope of work is engineering (phase 1 + 2), procurement for phase 1 (balance of plant only; the main items are under client's scope of work) and construction activities for phase 1 (mechanical & electrical activities only; Civil activities are under Client's scope of work) of the LNG/CNG filling station.

Phase 1: includes the installation of the station with this configuration: LNG process area with 1 LNG 60 m³ tank and all facilities to produce CNG too; No. 1 LNG refuelling dispenser with no.1 gun and No. 1 CNG refuelling dispenser with no.2 guns. A gas generator to manage the boil off issue will be installed. Phase 2: second LNG tank of the same capacity of phase 1; No.4 dispensers equipped each with no.2 LNG guns and no.2 CNG guns. Total no.8 LNG guns + no.8 CNG guns

ITALY

Client: LIQUIMET SPA

Year: 2016 - 2020



ENCH S.p.A.
WORKSHOPS

TOTAL 63,500 sqm; 13,500 sqm COVERED

SERVICES & MAINTENANCE

LOGISTICS & SHIPPING

FABRICATION

SURFACE TREATMENTS



ENCH S.p.A. WORKSHOPS EQUIPMENT

Structural bending machines



800 tons plate press



Plate rolling machines



Plate cutting pantographs



ENCH S.p.A. WORKSHOPS

SURFACE TREATMENTS & LOGISTICS

Sandblasting and paint
cabines

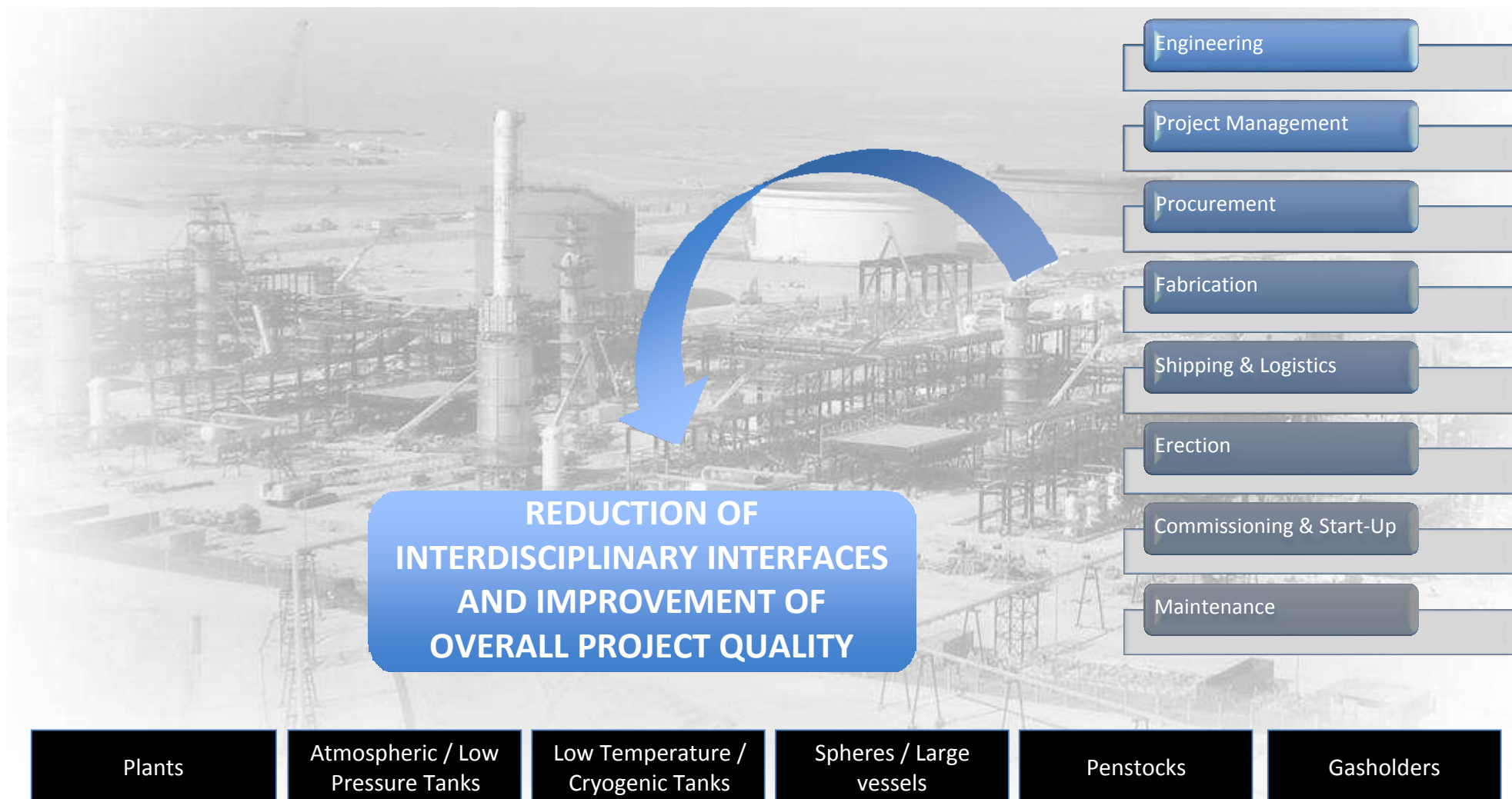


Lay-down areas

ENCH S.p.A.

Products & Services

A SINGLE SOURCE CONTRACTOR FOR 40 YEARS



ENCH S.p.A.
Products & Services
Plants

OIL & GAS

PETROCHEMICAL

POWER

Plants

Atmospheric / Low
Pressure Tanks

Gasholders

Low Temperature /
Cryogenic Tanks

Spheres / Pressure
Vessels

Penstocks

ENCH S.p.A.

Plants

TEMPAROSSA PLANT - ITALY



8.000 ton steel structures

4.600 ton piping and pipe-racks

8.000 ton equipment

360.000 m² painting

140.000 m² insulation

2x 36.000 m³ floating roof storage tanks

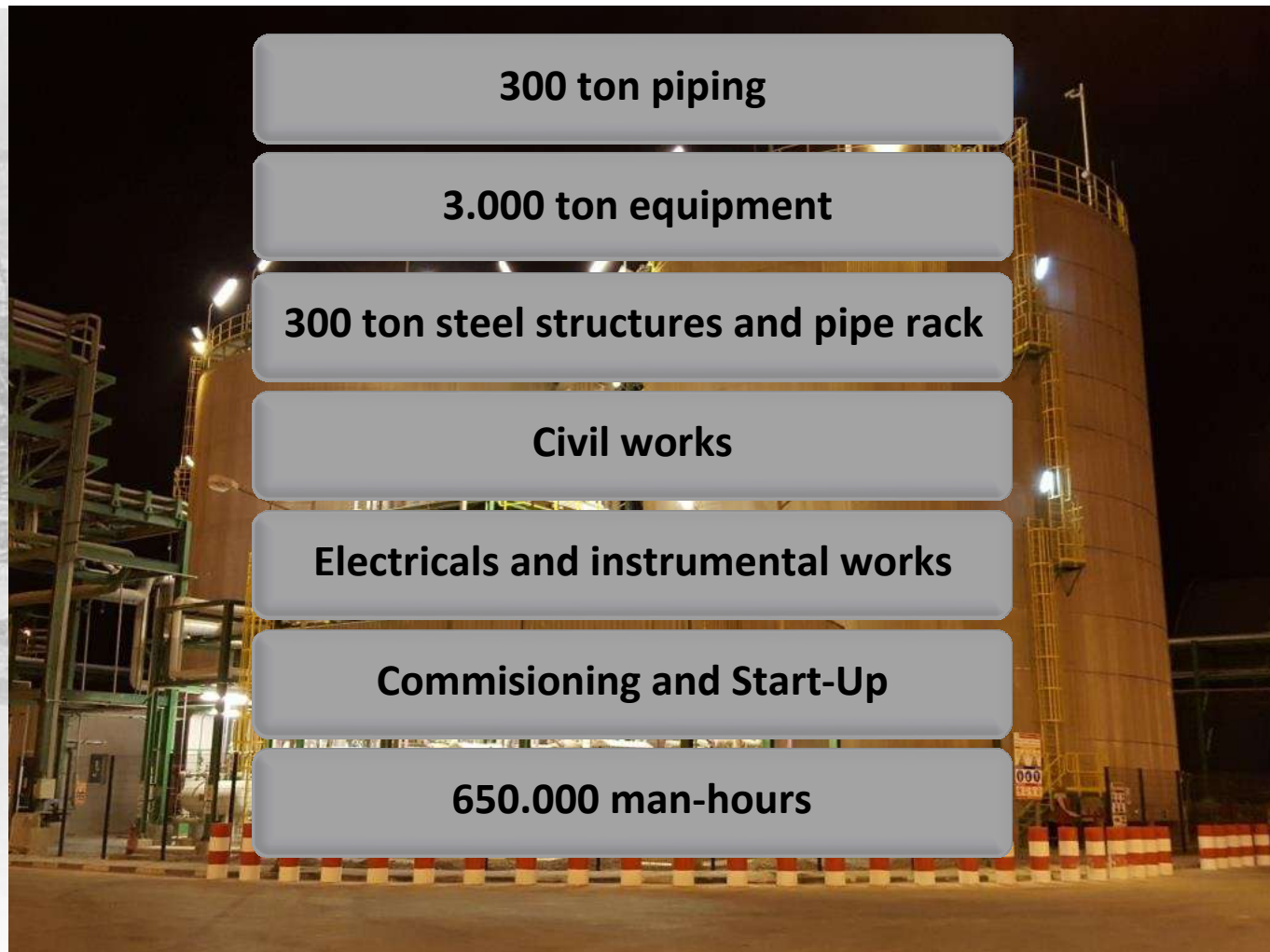
950.000 man-hours



END USER : TOTAL E&P ITALIA, Italy

ENCH S.p.A.
Plants

DIAMMONIUM PHOSPHATE PLANT - MOROCCO



300 ton piping

3.000 ton equipment

300 ton steel structures and pipe rack

Civil works

Electricals and instrumental works

Commisioning and Start-Up

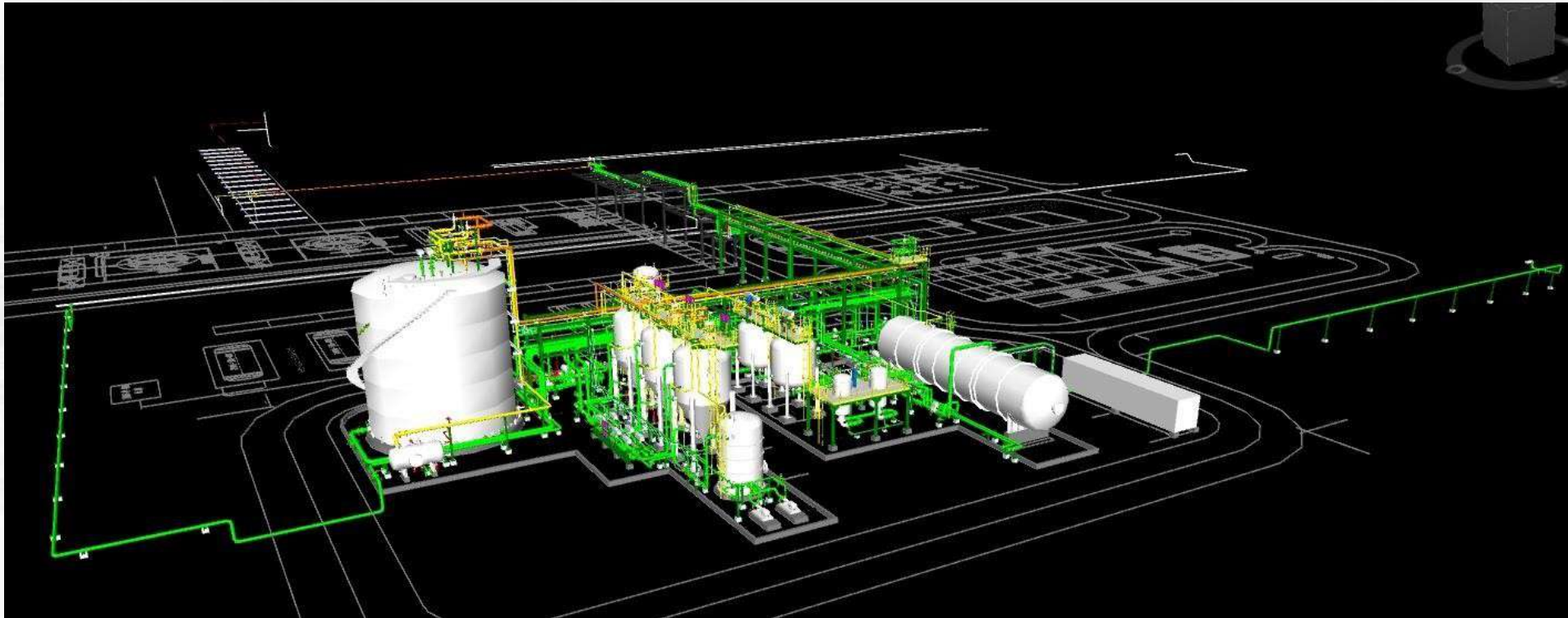
650.000 man-hours

END USER : OCP SA Chimie Casablanca, Morocco

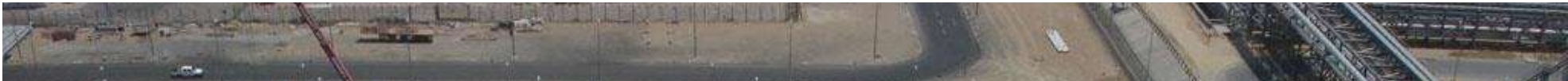
ENCH S.p.A.

Plants

OILY WATER TREATMENT PLANT - ALGERIA



END USER : GRUPEMENT SONATRACH-AGIP, Algeria



ENCH S.p.A.

Products & Services

Atmospheric / Low Pressure Tanks

**Different
Configuration**

- Fixed Cone/Dome Roof Tanks
- Internal/External Floating Roof Tanks
- Open Top Tanks

**Construction
techniques**

- Standard Method
- Jacking Method

**Welding
techniques**

- SAW
 - SMAW
 - FCAW
 - GTAW
- 

Plants

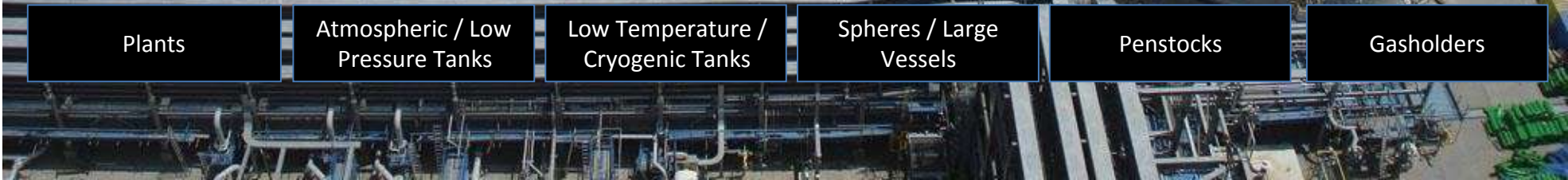
Atmospheric / Low
Pressure Tanks

Low Temperature /
Cryogenic Tanks

Spheres / Large
Vessels

Penstocks

Gasholders



ENCH S.p.A.

Atmospheric / Low Pressure Tanks

AROMATICS COMPLEX PLANT - KUWAIT



END USER: KPPC, Kuwait

ENCH S.p.A.

Atmospheric / Low Pressure Tanks

WESTERN LIBYA GAS PLANT- LIBYA

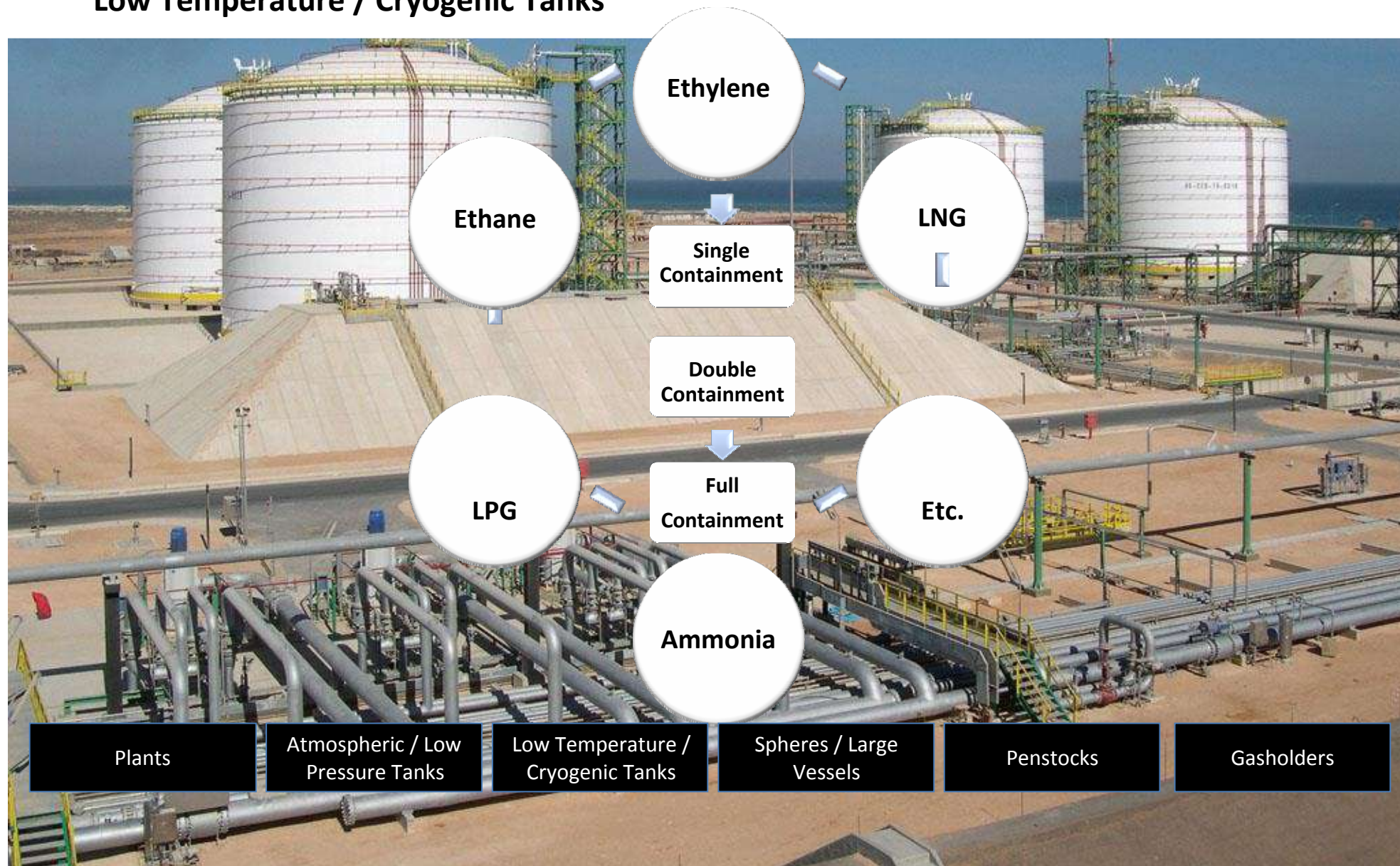


END USER: AGIP GAS BV, Libya

ENCH S.p.A.

Products & Services

Low Temperature / Cryogenic Tanks



ENCH S.p.A.

Low Temperature / Cryogenic Tanks

C₂ TERMINAL INEOS OXIDE - BELGIUM



END USER : INEOS, Belgium

ENCH S.p.A.

Low Temperature / Cryogenic Tanks

DANGOTE FERTILIZER PLANT - NIGERIA



END USER : DANGOTE FERTILIZER LIMITED, Nigeria

ENCH S.p.A.

Low Temperature / Cryogenic Tanks

SOYO LNG PLANT - ANGOLA

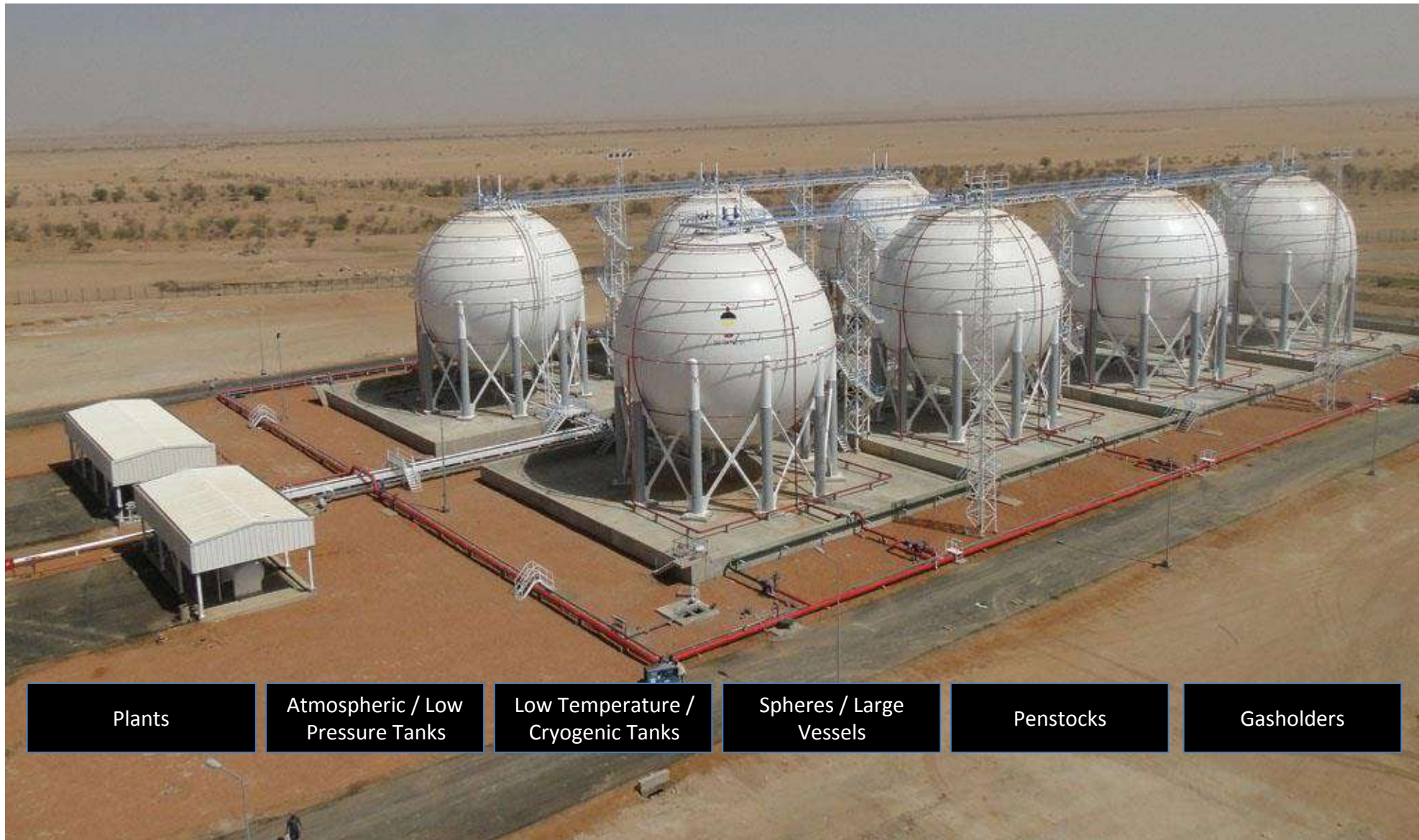


END USER : SONANGOL, Angola

ENCH S.p.A.

Products & Services

Spheres / Large Vessels



Plants

Atmospheric / Low
Pressure Tanks

Low Temperature /
Cryogenic Tanks

Spheres / Large
Vessels

Penstocks

Gasholders

ENCH S.p.A.

Spheres / Large Vessels

AMMAN STRATEGIC RESERVE TERMINAL - JORDAN



END USER : ASTPP, Jordan

ENCH S.p.A.

Spheres / Large Vessels

OL2K ETHYLENE PROJECT - KUWAIT



END USER : TKOC, Kuwait

ENCH S.p.A.

Spheres / Large Vessels

LPG FILLING PLANT, MOROCCO



END USER : SALAM GAZ, Morocco

ENCH S.p.A.

Spheres / Large Vessels

DISTRICT HEATING PLANT - ITALY



END USER : IREN, Italy

ENCH S.p.A.
Spheres / Large Vessels

BUTENE DEPOT - ITALY



END USER : ECOFUEL, Italy

ENCH S.p.A.

Spheres / Large Vessels

LPG DEPOT - ITALY



END USER : ENI VERSALIS, Italy

ENCH S.p.A.

Spheres / Large Vessels

LPG DEPOT - ITALY



END USER : LONZA, Italy

ENCH S.p.A.
Products & Services
Penstocks

OPEN AIR

IN TUNNEL

STEEL LINING

Plants

Atmospheric / Low
Pressure Tanks

Low Temperature /
Cryogenic Tanks

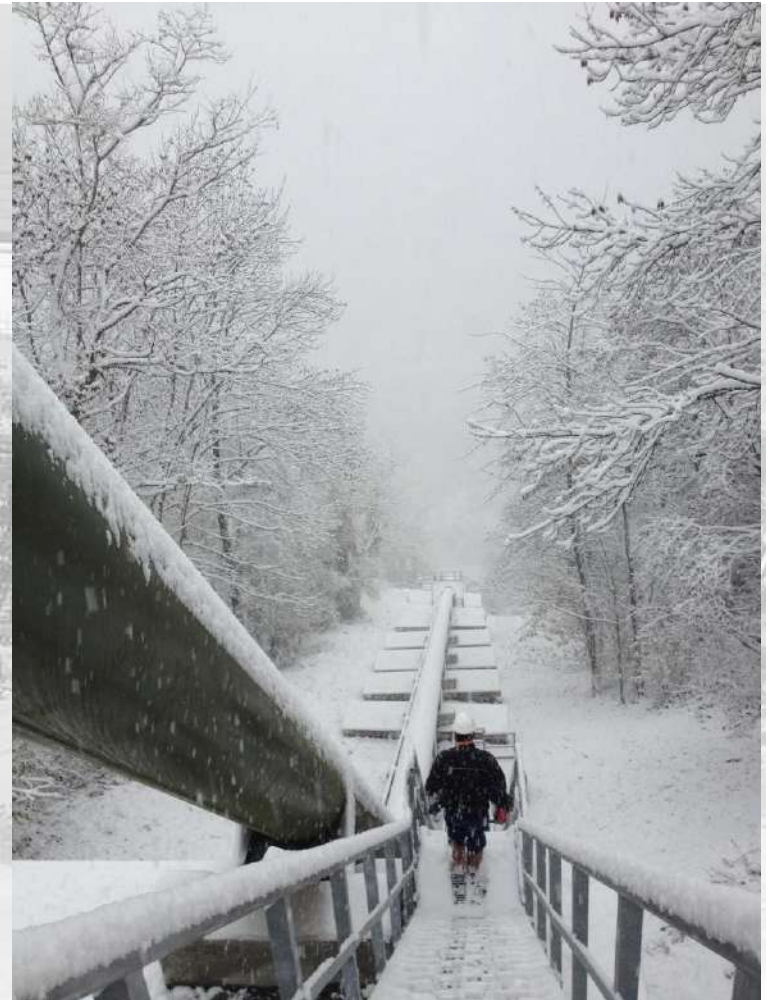
Spheres / Large
Vessels

Penstocks

Gasholders

ENCH S.p.A.
Penstocks

LA RAGEAT HYDRAULIC POWER PLANT, FRANCE



END USER : EDF, France

ENCH S.p.A.
Penstocks

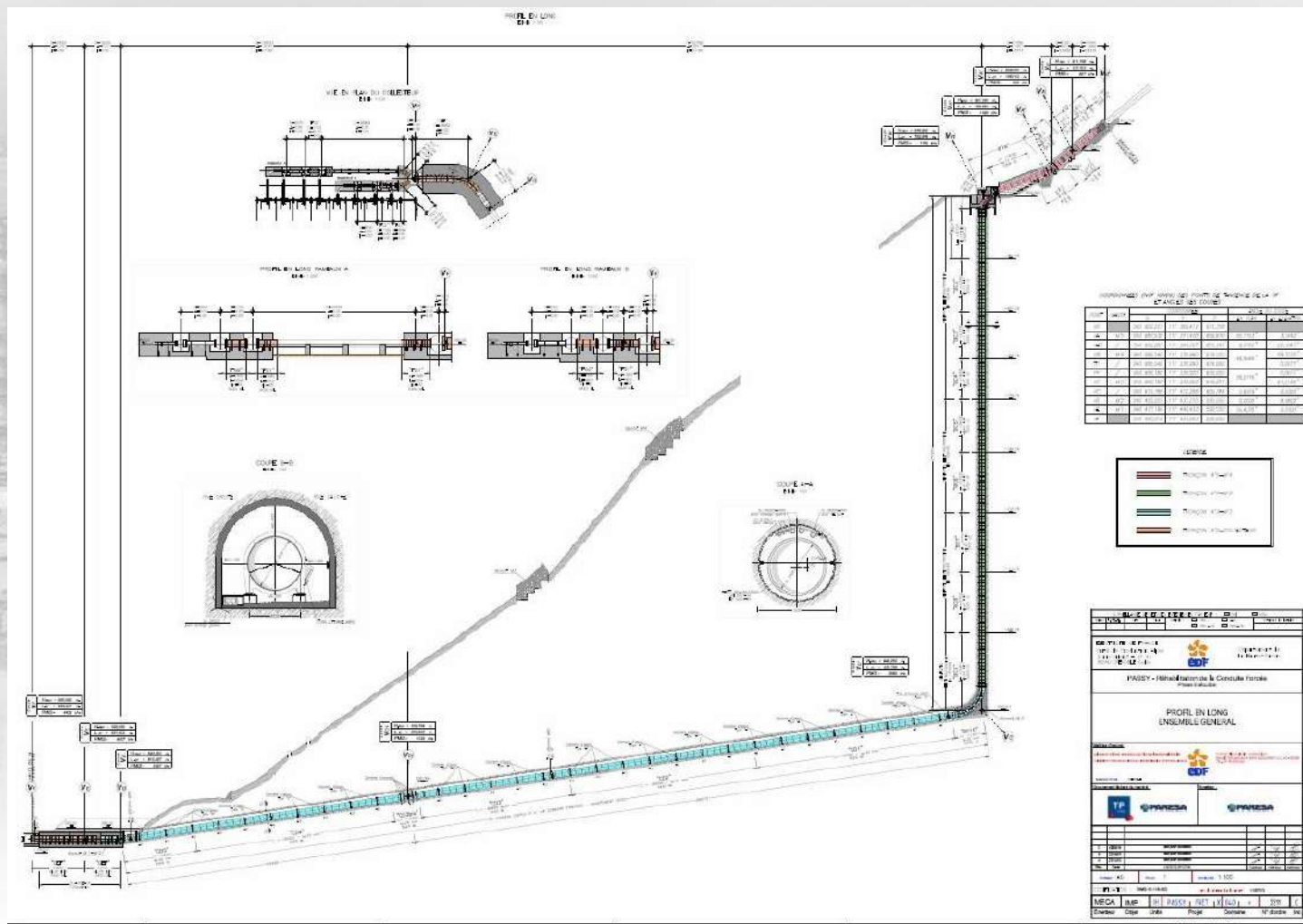
VARZO HYDRAULIC POWER PLANT - ITALY



END USER : ENEL,Italy

ENCH S.p.A.
Penstocks

PASSY HYDRAULIC POWER PLANT - FRANCE



END USER : EDF, France



Workshop video



Site video

ENCH S.p.A.
Penstocks

PASSY HYDRAULIC POWER PLANT - FRANCE



END USER : EDF, France

ENCH S.p.A.

Products & Services

Gasholders

WATER SEALED TYPE

DRY SEAL TYPE

Plants

Atmospheric / Low
Pressure Tanks

Low Temperature /
Cryogenic Tanks

Spheres / Large
Vessels

Penstocks

Gasholders

ENCH S.p.A.
Special Services

ROOF RAISING



AIR RAISING 

MECHANICAL RAISING 

ENCH S.p.A.

Special Services

MAINTENANCE



ENCH S.p.A.
Maintenance

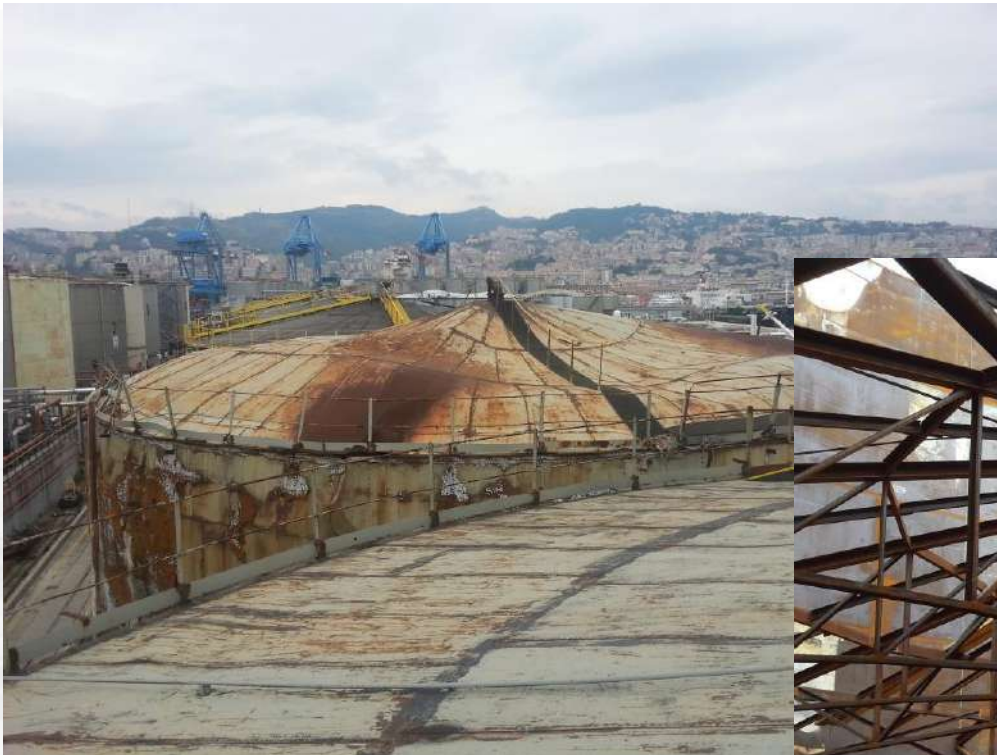
DOUBLE DECK FLOATING ROOF REHABILITATION - MOROCCO



END USER : SAMIR Mohammedia Refinery, Morocco

ENCH S.p.A.
Maintenance

FIXED ROOF TANK REHABILITATION - ITALY



END USER : ENI R&M, Italy

ENCH S.p.A.
Maintenance

SPHEROID REHABILITATION - ITALY



END USER : R&M MILAZZO REFINERY, Italy

ENCH S.p.A.

Maintenance

WATER SEAL GASHOLDER REHABILITATION - ITALY



END USER : BASELL POLIOLEFINE ITALIA S.p.A. , Italy

ENCH S.p.A.

Maintenance

LONG TERM MAINTENANCE CONTRACTS



annazzaro,
Livorno,
Venice,
Milazzo
Refineries,
Italy

Northern
and Central
Italian
Depots



Cremona
Depot, Italy



Trecate
Refinery,
Italy

Savona
Depot, Italy



Falconara
Refinery,
Italy



Mohammedia
Refinery,
Morocco



Sarroch
Refinery,
Italy



A steady growth from shop manufacturing of storage tanks to execution of turnkey projects

ENCH was established in 1978 with the aim to perform **prefabrication** activities in its own workshops located in ITALY, to develop **maintenance activities** in refineries/depots and to erect storage tanks across Italy.

Thanks to its founders' experience and diligence and to new business opportunities, ENCH rapidly becomes a leading company in its field of activities, gaining the confidence of most important and large EPC contractors

in the **Oil & Gas sector**.

At the beginning of this millennium, due to Italian market saturation and economic recession worldwide, ENCH decides to enter foreign markets and to start out in **site erection of storage tanks abroad**, initially pursuing the flourishing Gulf Region, for instance in Kuwait in 2004 and in 2006, and successively in Northern Africa.

After this first expansion, ENCH decides to meet new market needs and enlarges the range of services for its customers who are increasingly interested in working with contractors able to offer turnkey solutions for their projects.

Today, ENCH is certainly a company that does not deny its origins as tank manufacturer (we are still very well-known and appreciated worldwide!) but that has the ambition to grow as a **multi-discipline**

single source contractor for its clients, reducing interdisciplinary interfaces while maintaining a **relentless focus on safety and an uncompromising standard of quality.**

Close and **friendly relations** with our customers, undisputed quality of our products, knowledge of local rules of countries where we execute our projects, as well as **integration with local communities**: these are the key-factors of our success!



PROJECT
MANAGEMENT

ENGINEERING

COMMISSIONING &
START-UP

ERECTION

Services

SHIPPING
& LOGISTICS

FABRICATION

REHABILITATION

PROCUREMENT





We design, fabricate, install, repair and maintain any kind of storage facilities, from the simplest to the most sophisticated ones, providing a wide variety of services and cost-effective solutions to key industries including refineries, terminals, depots, power plants and more.

We handle every project with skilled craftsmanship and using the latest and most refined equipment, constantly focused on our customers' satisfaction.

Whether the smallest tank is to be shop fabricated or a turn-key job to be executed, our experienced professionals are always at your service.

From concept
to commissioning,
in challenging
locations



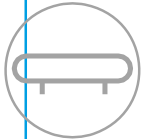
PRODUCTS



ATMOSPHERIC &
LOW PRESSURE TANKS



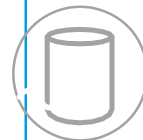
LOW TEMPERATURE &
CRYOGENIC TANKS



PRESSURE VESSELS



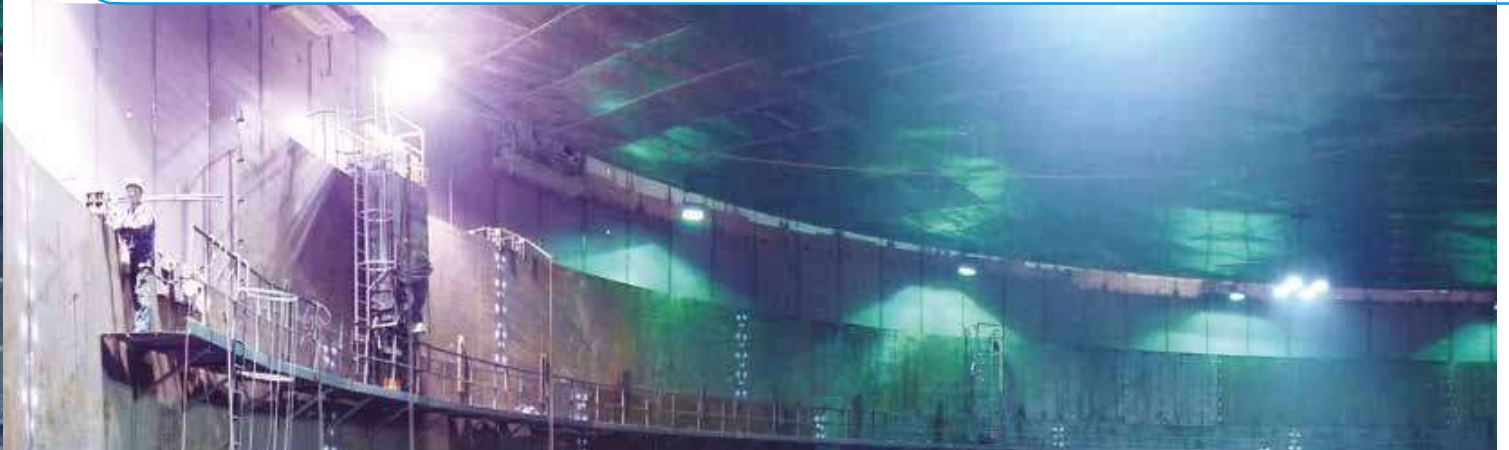
SPHERES



GASHOLDERS



PENSTOCKS



Stringent **Health, Safety and Environmental** policies are a major factor in the success of our projects. We constantly seek to achieve zero incidents by continuously training our people to adhere to HS&E policies. A safe workplace is our final result.



Board of Directors

ENCh Company-
Dubai
CEO

Commercial Dept.

HR Dept.

Legal Dept.

QHSE

Public Relation

Finance Dept.

Information
Technologies

Portfolio
Management

Business
Development
Dept.

Planning Dept.

Recruitment

Quality Assurance
unit

Financial planning
& budgeting unit

Early production

Flare Gas Recovery
System

Strategic planning
unit

Payroll

Quality control unit

Accounting unit

Storage Facilities

Gas Transportation
Technology

Project planning
unit

Training &
Development

HSE unit

Cost accounting unit

Well Testing

Coiled Tubing

Business Process
Management unit

Cash unit

Fire Fighting

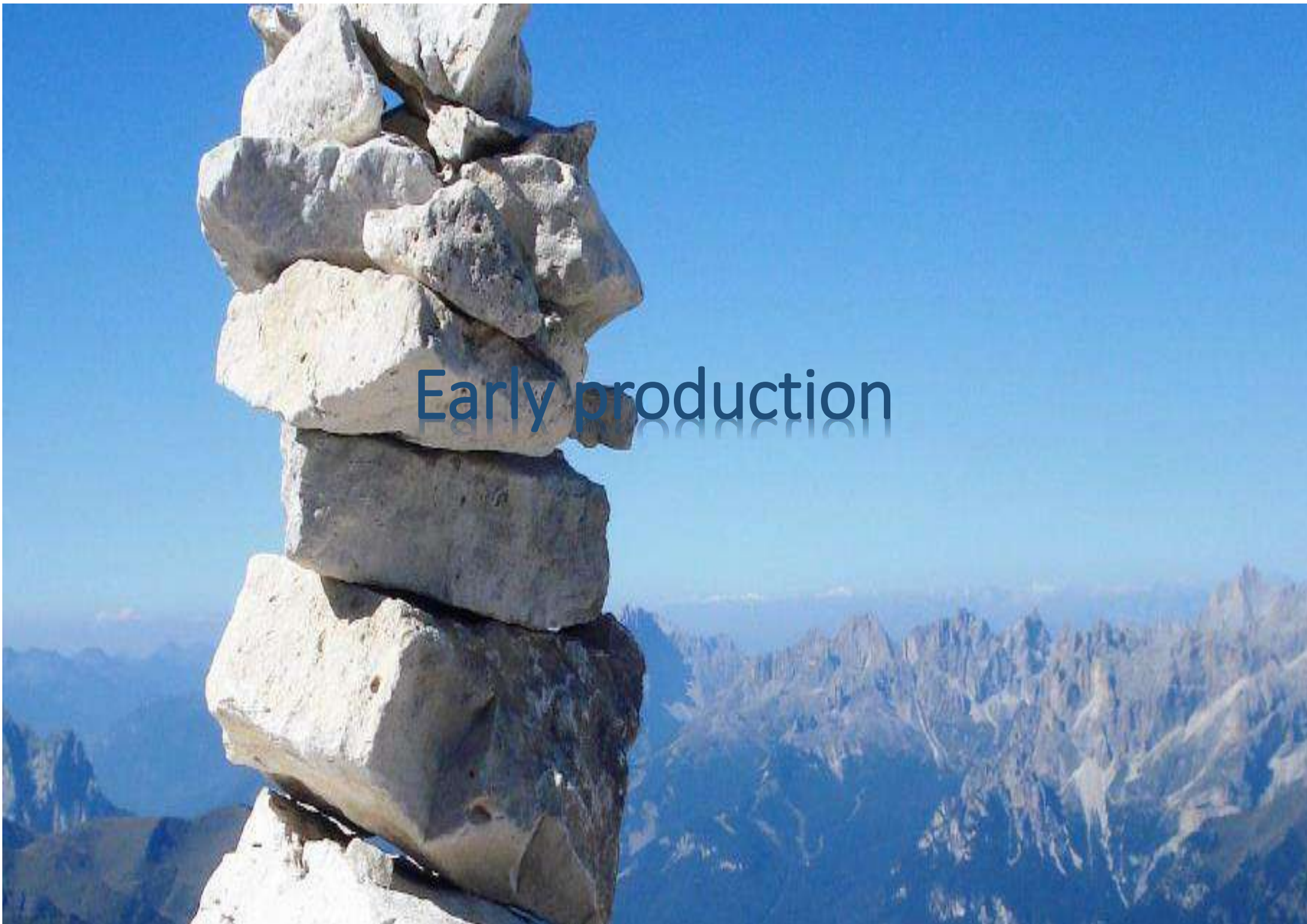
Casing & Tubing
Service

Biogas From
Organic Wastes
Facilities

Small Scale Lng
Plants

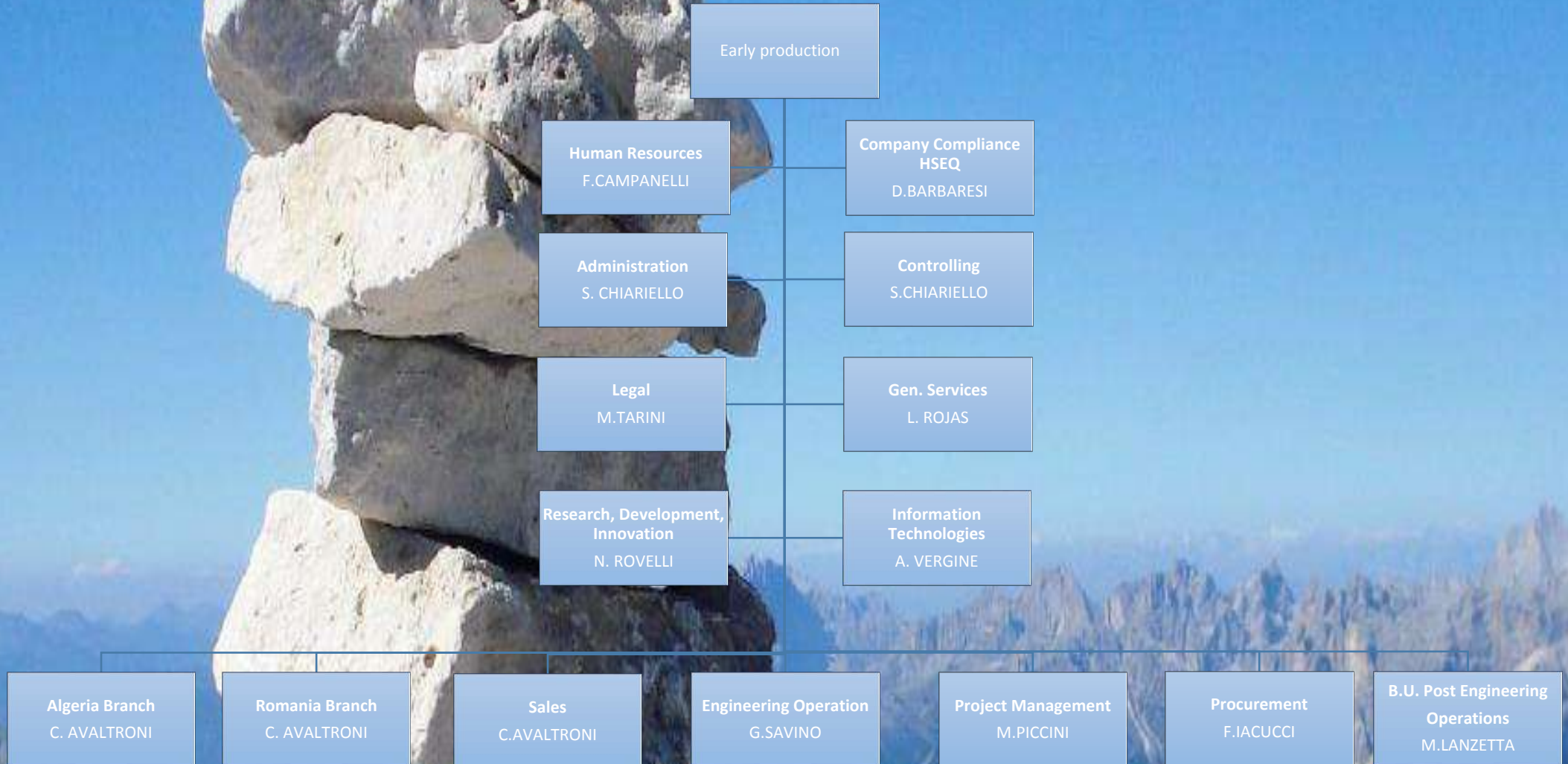
Pipeline Systems

Gas Treatment
Plant



Early production

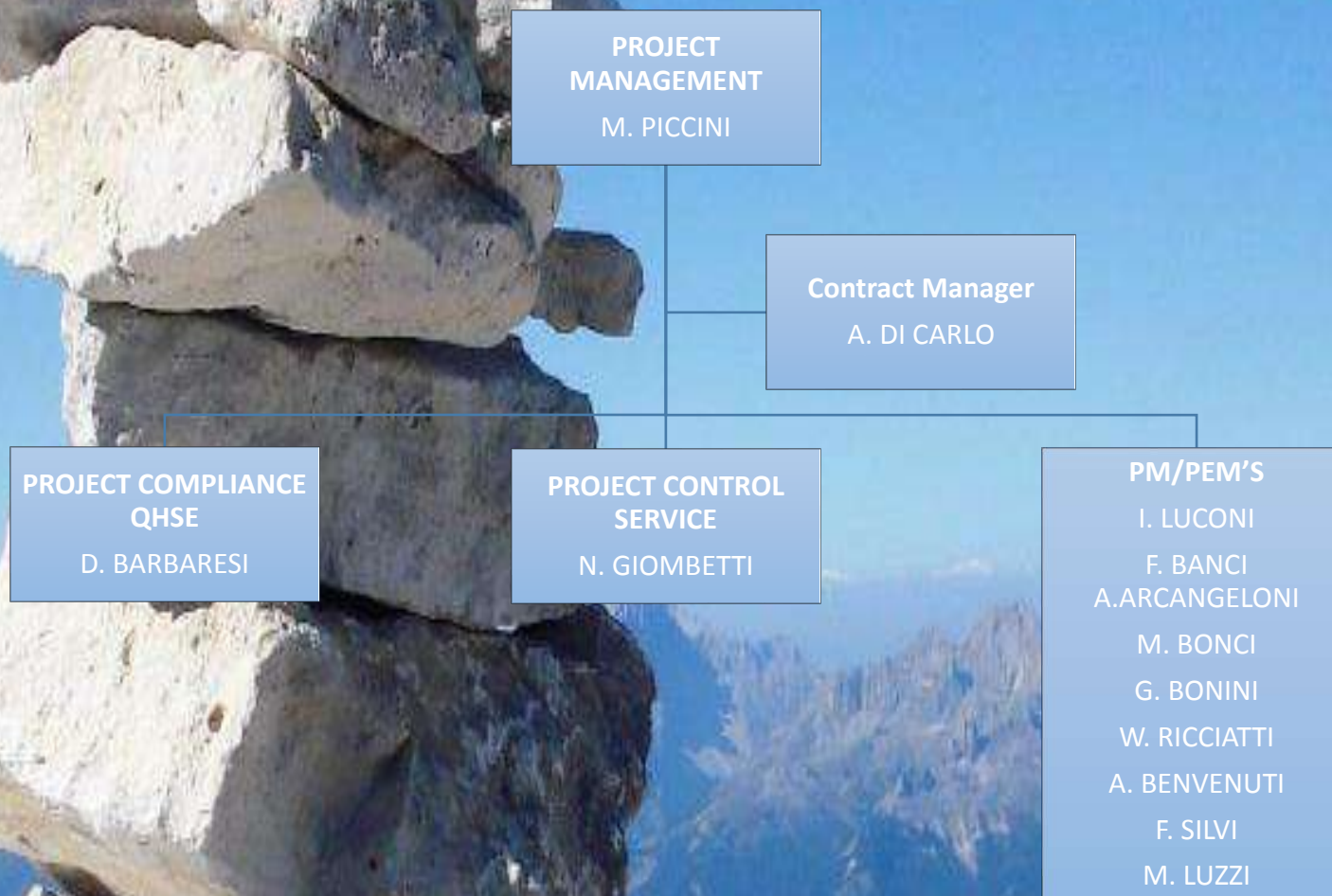
Early production



Engineering Operations



PROJECT MANAGEMENT



PROCUREMENT



COMPANY COMPLIANCE HSEQ

**COMPANY
COMPLIANCE HSEQ**

D. BARBARESI

Project Control Service Dpt.

Compliance Risk Management

M.G. FORTE

IMS System

F. TENERELLI (Focal Point)

Quality

S. ZANNI (Focal Point)

Health & Safety

E. FLORIANI (Focal Point)

Environment

M. ORDONELLI Focal Point)

HUMAN RESOURCES

HUMAN RESOURCES
F. CAMPANELLI

**LABOR LAW & CONTRACT RELATION
ASSISTANT**
C. GIUSTI

PAYROLL
C. GIUSTI
C. BORGOGELLI
F. STORONI
S. PAGANO DRITTO

**RECRUITMENT, TRAINING AND
DEVELOPMENT ASSISTANT**
F. STORONI
C. BORGOGELLI
S. PAGANO DRITTO

ADMINISTRATION

ADMINISTRATION
S. CHIARIELLO

RECEIVABLE ACCOUNTING
L. IACUCCI

GENERAL LEDGER
G. BETTINI

PAYABLE ACCOUNTING
G. AIUDI

CONTROLLING LEAD

CONTROLLING LEAD
S. CHIARIELLO

CONTROLLING
M. C. SILIQUINI
L. MASCIOTTI

PLANNING
A. SIMONCELLI



SALES

SALES
C. AVALTRONI

ITALY
S. AVALTRONI

TENDERS OFFICE
C. ZANOTTI
S. GENTILI
F. CIOCCOLANTI

OVERSEAS
G. VULCANO

INFORMATION TECHNOLOGIES

**INFORMATION
TECHNOLOGIES**
A. VERGINE

USER SUPPORT
D. LUZI
I. MAGGIOLI

IT SYSTEM
D. LUZI
I. MAGGIOLI

SOFTWARE DEVELOPMENT
T. ZAULI DA BACCAGNANO

SAP SUPPORT
T. ZAULI DA BACCAGNANO
I. MAGGIOLI

R.D.I.

R.D.I.
N. ROVELLI

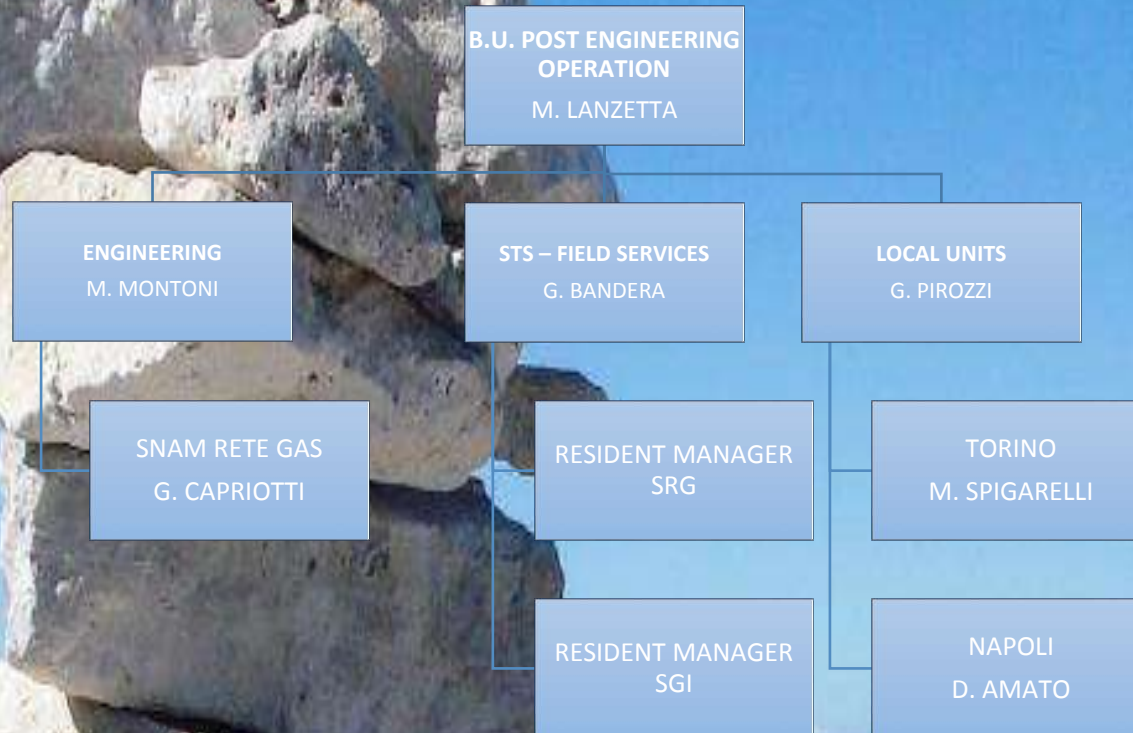
R.D.&I SALES AND CALLS
S. AVALTRONI

MECHANICAL ENGINEER
V. CORRADETTI

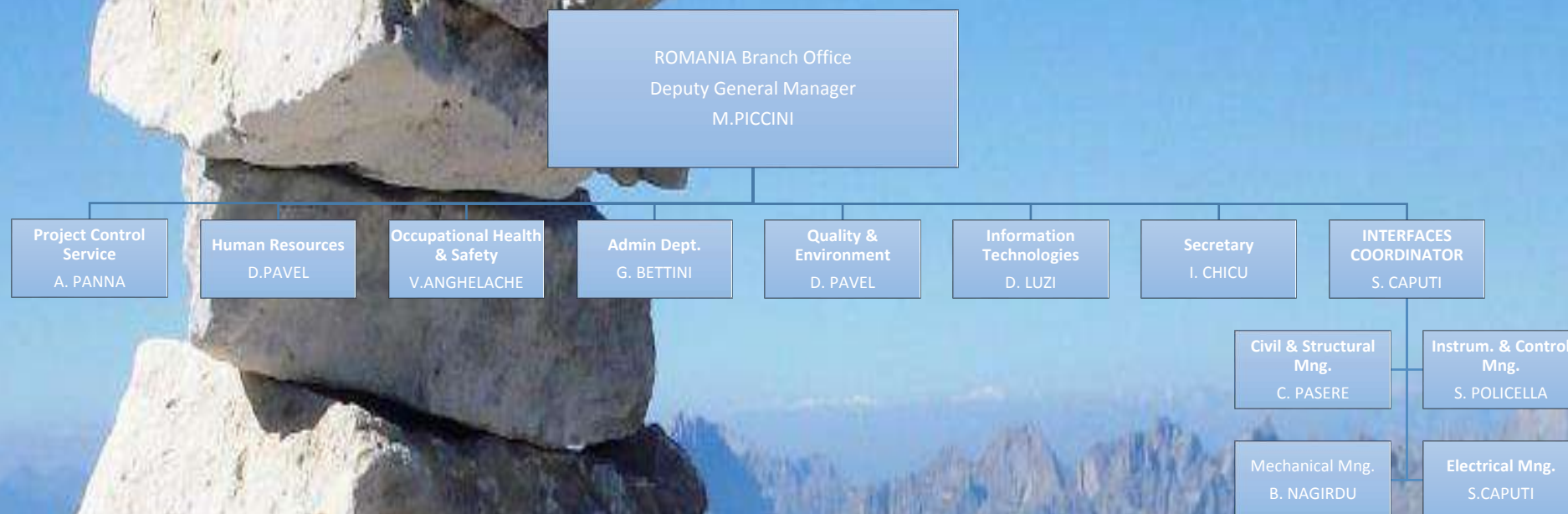
CHEMICAL ENGINEER
D. CAIONI

MECHANICAL ENGINEER
M. VITALI

B.U. POST ENGINEERING OPERATION



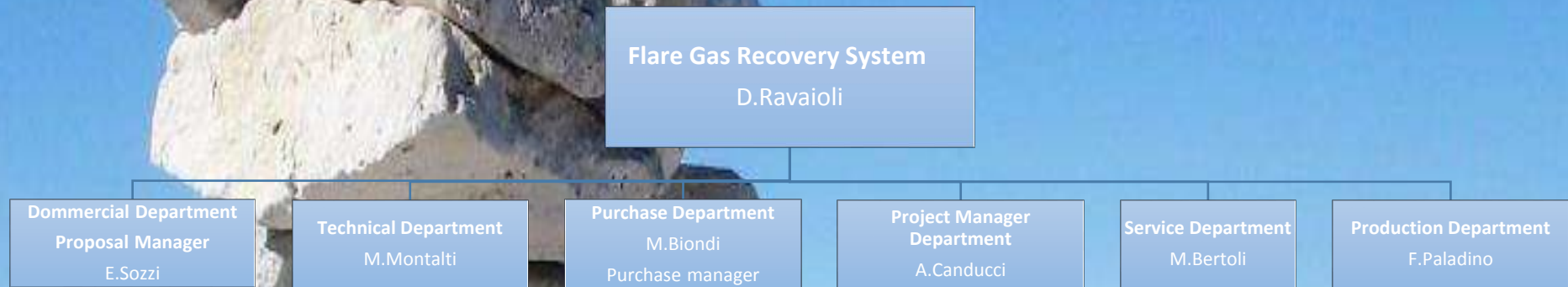
ROMANIA Branch



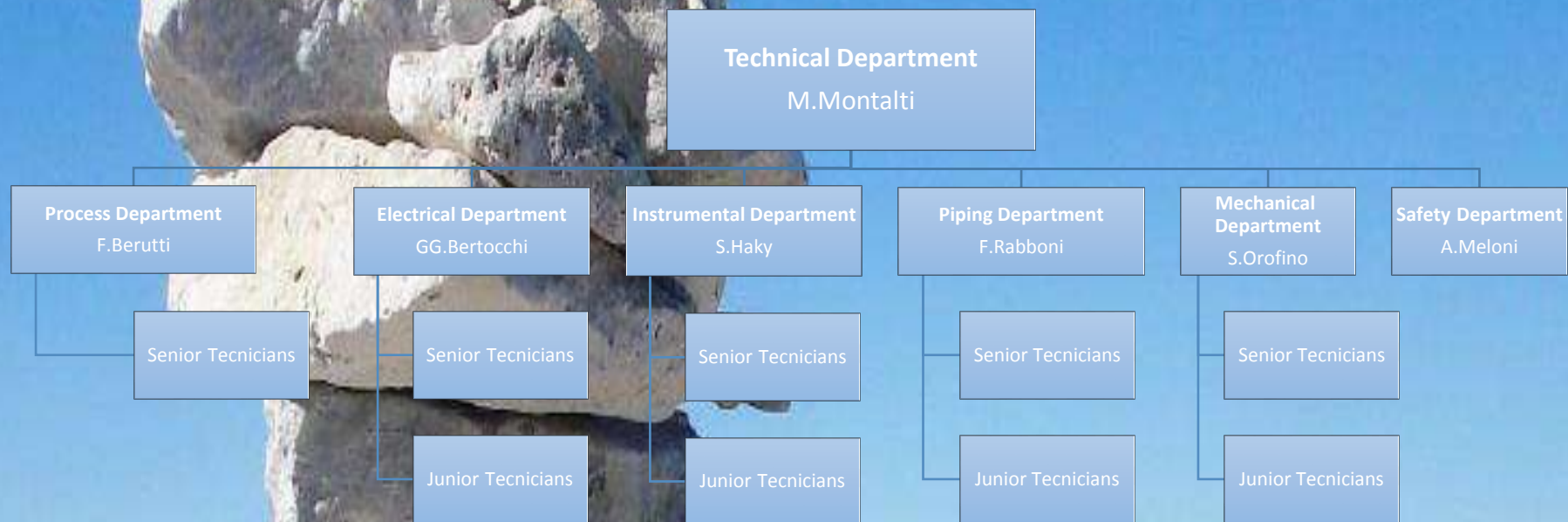


Flare Gas Recovery System

Flare Gas Recovery System









```
graph TD; A["Purchase Department  
M.Biondi  
Purchase manager"] --> B["Purchase Department  
L.Sbaraglia"]; A --> C["Purchase department  
D.Costa"]
```

Purchase Department
M.Biondi
Purchase manager

Purchase Department
L.Sbaraglia

Purchase department
D.Costa


```
graph TD; A["Project Management Department  
A.Canducci"] --> B["Project Mnager  
M.Alvisi"]; A --> C["Project Manager  
E.Dalmiani"]; A --> D["Project Manager  
E.Dalmiano"]; A --> E["Project Engineers  
F.Viggiano  
M.Gramuglia  
L.Casanova"];
```

Project Management Department
A.Canducci

Project Mnager
M.Alvisi

Project Manager
E.Dalmiani

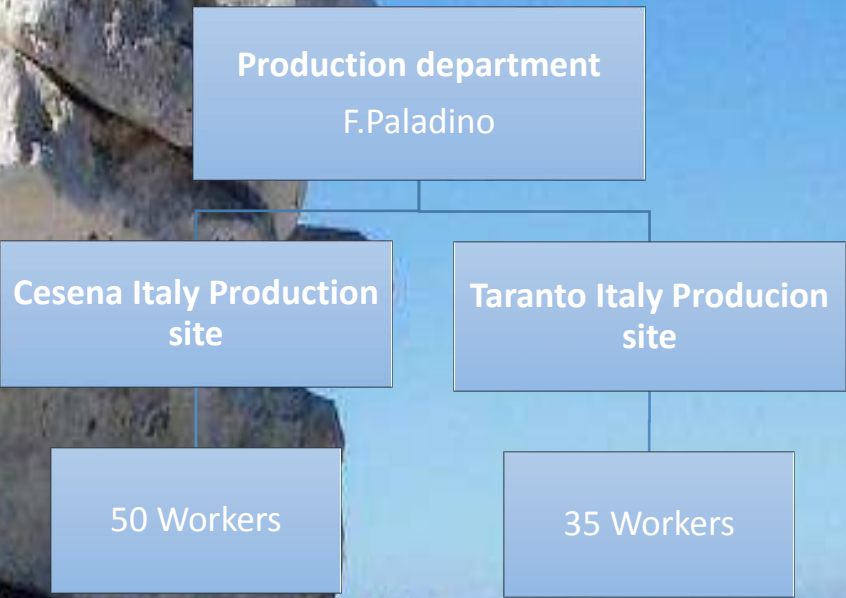
Project Manager
E.Dalmiano

Project Engineers
F.Viggiano
M.Gramuglia
L.Casanova



Service Department
M.Bertoli

Senior Technicians



```
graph TD; A["Production department  
F.Paladino"] --> B["Cesena Italy Production  
site"]; A --> C["Taranto Italy Production  
site"]; B --> D["50 Workers"]; C --> E["35 Workers"]
```

Production department
F.Paladino

**Cesena Italy Production
site**

50 Workers

**Taranto Italy Production
site**

35 Workers



Petromar

LA PETROLIFERA
ITALO ALBANESE S.p.A.

pör
ner
PÖRNER GRUPPE

RM
Raffineria
di Milano S.p.A.

ROSETTI
MARINO

SAIPEM

سلام غاز
Salam Gaz

Samir

SARLUX
Refining & Power

SARPOM

Shaw® The Shaw Group Inc.®

Shell

Sirte

Slovnaft

snam

S.O.C.

SOCAR

SONANGOL

Sonangol

SONANGOL

Padana Energia Plus

TAMOIL

tbs
berlin GmbH

Teaenergia

TechnipFMC

TECHNOEDIF
Engenharia

TETCO
Tetco Engineering Training & Consulting Center

TGE
Gas Engineering

TKSC
THE KANAWI TYRENT COMPANY
الشركة الكانوية للتكرير

TOTAL

TOYOSETAL

TPF
BASSE SAMBRE

UNIGAZ
Industrial Gas Company s.a.l

unidro S.p.A.

VAOS

whessoe

Yanbu STEEL

ZAKHEM

ZIZ

ZUEITINA
OIL COMPANY

ARE
YOU
NEXT?

Our experience
worldwide
since 1978

Flexibility
Efficiency
Innovation

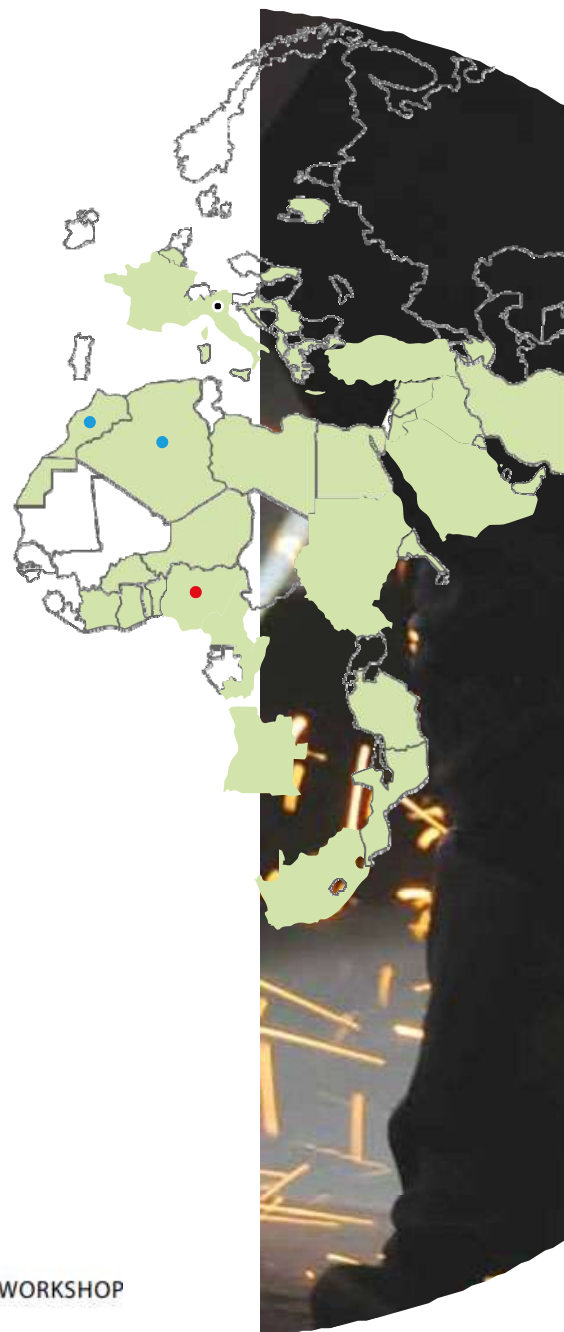


ENCH Headquarters

Al Thanayah Third
Dubai (EAU)
Park Building 3

ENCH Workshops

Via Dante, 1
40015 Galliera (BO) - Italy



⦿ HEADQUARTERS AND WORKSHOP

● BRANCHES

● SUBSIDIARIES

■ PROJECTS

ENch

Branches

ENch GROUP SpA Fano Sucursala București

București, Sector 1,
Sos. București-Ploiesti, 19-21
Romania

ENchGROUP Engineering & Contracting LLP

2, Novaya Street – Atyrau
Republic of Kazakhstan
e-mail: info@Ench Group .com

ENch GROUP S.p.A. Établissement Stable

32, Rue du Hoggar, Hydra, 16035,
Alger, Algérie

ENch GROUP Qatar Engineering & Consulting

P.O. Box 17730 "C" Ring Road, Doha – Qatar Building No. 153, Zone 42
Qatar