



## **Studi Tecnologie Progetti S.p.A.** **Engineering & Contractor**

*Over 30 years in Oil, Gas & Petrochemicals*



# COMPANY HIGHLIGHTS

30<sup>+</sup>  
YEARS

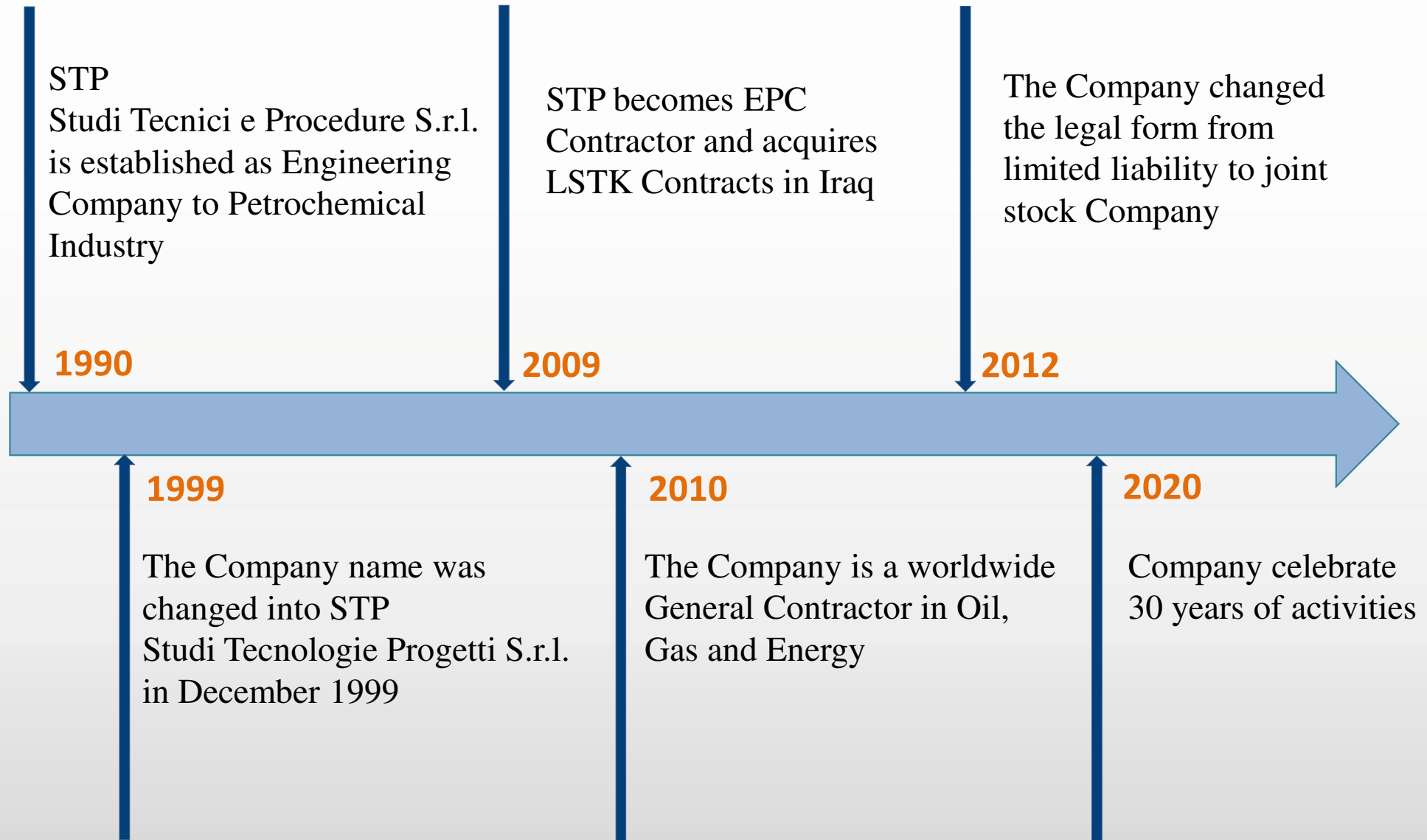
- S.T.P. Studi Tecnologie Progetti S.p.A. is a General Contractor operating worldwide for EP, EPC, EPCM and Integrated Projects implementation to Oil Refining, Gas Processing, Petrochemicals, Chemicals and Pharmaceuticals, Energy and Circular ecological economy Sector.
- STP provides full integrated services for Feasibility Studies, FEED, EPC, EPCM, PMC Projects implementation including technology and financing facility.
- The Company has longlasting expertise in Refinery Units, Gas Processing, Lube Oil Plants and offers proprietary technology for Asphalt Blowing, Used lube oil Rerefining and Chemicals distillation.
- The Company maintains high standards for HSE and QA/QC in projects execution.
- The Company is staffed by highly qualified personnel, with extensive background and consolidated experience in the execution of industrial projects within budget and schedule.





# STP HISTORY

30<sup>+</sup>  
YEARS



## History

34 years of global experience

## Target Industries

Oil & Gas, Lubricants, Petrochemicals, Chemicals & Pharmaceuticals, Energy

## Track Record

A successful standing of more than 200 projects worldwide through affordable and reliable state of the art technologies.

## QA/QC policy and HSE priority

Member of EFCA, ANIMP and AIDIC Engineering Associations  
Registered Contractor at major Oil Companies  
Certified ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 by BV

## Head Quarter

Rome, Italy





S.T.P. S.p.A. has always pursued the primary objective of Quality and HSE, understood as full satisfaction of its Customers and an indispensable condition for survival and growth.

These objectives led the Company to define a Quality System compliant with the ISO 9001:2015 and HSE System according to ISO 14001:2015 and ISO 45001:2018.

S.T.P. Management is directly involved in the work of raising awareness, organization and coordination of those corporate functions that contribute to the development, maintenance and continuous improvement of Quality and HSE, aiming to differentiate the characteristics of its services through constant research aimed at improving processes and to their optimization.

In order to pursue the aforementioned objectives, S.T.P. Management assumes responsibility for preparing a Management System designed to pursue the strategic objectives defined in this policy, to keep it under control in order to verify the pursuit of the objectives themselves and to promote the appropriate improvement actions.

These objectives and commitments undertaken by the Company are suitably and constantly disseminated with personal communications addressed to collaborators or with formal notices posted on the Company notice board.



# ISO 9001:2015 CERTIFICATION

30<sup>+</sup>  
YEARS



**BUREAU  
VERITAS**



Bureau Veritas Certification



## S.T.P. STUDI TECNOLOGIE PROGETTI S.P.A.

Viale Alexandre Gustave Eiffel, 13/15 - 00148 ROMA (RM) - Italy

Certified site:

Viale Alexandre Gustave Eiffel, 13/15 - 00148 ROMA (RM) - Italy

*Bureau Veritas Italia S.p.A. certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standards detailed below*

**ISO 9001:2015**

*Scope of certification*

General Contractor for engineering, procurement and construction for the implementation of industrial plants in the sector of oil & gas, petrochemical, energy and industrial plants in general.

IAF: 18, 34

Original Cycle Start Date:	01-June-2011
Expiry date of previous cycle:	30-May-2023
Certification / Recertification Audit date:	08-May-2023
Certification/Recertification Cycle Start date:	25-May-2023
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on:	30-May-2026

Certificate No. IT323337

Version: 1

Revision date: 25-May-2023

  
GIORGIO LANZAFAME Local Technical Manager



ISO 9001:2015  
Certification Body Address:  
Bureau Veritas Italia S.p.A., Viale Monza, 347 - 20126 Milan, Italy

Certification Body Address:  
Bureau Veritas Italia S.p.A., Viale Monza, 347 - 20126 Milan, Italy

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization.

To check the validity of this certificate please double click or scan QR CODE

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# ISO 14001:2015 CERTIFICATION

30+  
YEARS



BUREAU  
VERITAS



Bureau Veritas Certification

## S.T.P. STUDI TECNOLOGIE PROGETTI S.P.A.

Piazzale Ezio Tarantelli, 97-00144 ROMA (RM) - Italy

Certified site:

Piazzale Ezio Tarantelli, 97-00144 ROMA (RM) - Italy

*Bureau Veritas Italia S.p.A. certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below*

### ISO 14001:2015

Scope of certification

General Contractor for the design and supply of industrial plants in the oil & gas, petrochemical, energy and industrial plants in general.

IAF: 34

Certificate issued in accordance with the Technical Regulation ACCREDIA RT-09

Original cycle start date:	13-January-2023
Expiry date of previous cycle:	NA
Certification / Recertification Audit date:	14-December-2022
Certification / Recertification cycle start date:	13-January-2023
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on:	12-January-2026
Certificate No.:	IT320427
Version:	1
Issue Date:	13-January-2023

GIORGIO LANZAFAME - Local Technical Manager



ACCREDIA  
CONFORME AL REGOLAMENTO  
EUROPEO N. 765/2008

Certification body address:  
Bureau Veritas Italia S.p.A., Viale Monza, 347 - 20126 Milano, Italia

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.  
To check the validity of this certificate please double click or scan QR CODE



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# ISO 45001:2018 CERTIFICATION

30+ YEARS



BUREAU  
VERITAS



Bureau Veritas Certification

## S.T.P. STUDI TECNOLOGIE PROGETTI SOCIETA' PER AZIONI

Piazzale Ezio Tarantelli, 97-00144 ROMA (RM) - Italy

Certified site:

Piazzale Ezio Tarantelli, 97-00144 ROMA (RM) - Italy

*Bureau Veritas Italia S.p.A. certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below*

**ISO 45001:2018**

*Scope of certification*

**General Contractor for the design and supply of industrial plants in the oil & gas, petrochemical, energy and industrial plants in general.**

IAF: 34

Original cycle start date:	28-December-2022
Expiry date of previous cycle:	NA
Certification / Recertification Audit date:	15-December-2022
Certification / Recertification cycle start date:	28-December-2022
Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on:	27-December-2025
Certificate No.:	IT320167
Version:	1
Issue Date:	28-December-2022

  
GIORGIO LANZAFAME - Local Technical Manager

Certification body address:  
Bureau Veritas Italia S.p.A., Viale Monza, 347 - 20126 Milano, Italia



SECC N° 603P

Il presente certificato è valido solo se è accompagnato dal documento di riferimento della norma ISO 45001:2018, che è disponibile sul sito www.bureauveritas.it. Il certificato è valido solo se è accompagnato dal documento di riferimento della norma ISO 45001:2018, che è disponibile sul sito www.bureauveritas.it. Il certificato è valido solo se è accompagnato dal documento di riferimento della norma ISO 45001:2018, che è disponibile sul sito www.bureauveritas.it.

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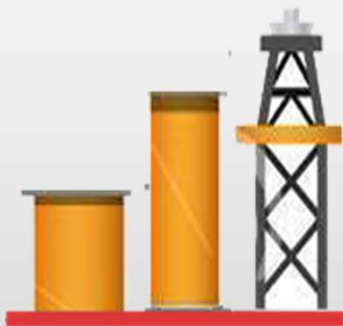
**PETROCHEMICALS  
CHEMICALS**



**OIL & GAS**



**LUBRICANTS & RE-REFINING**

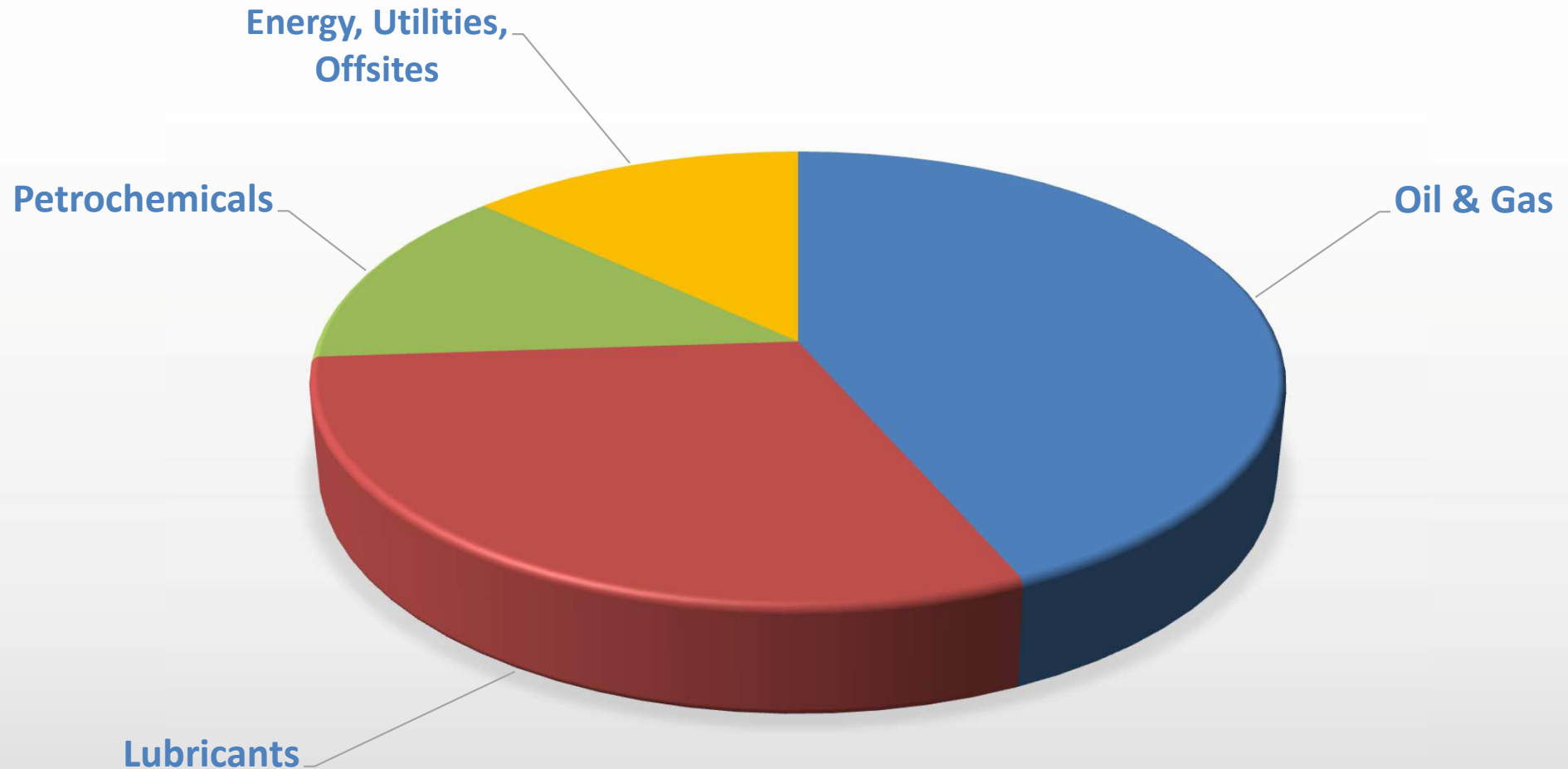


**ENERGY, UTILITIES  
& OFFSITES**



**PLANT DISMANTLING  
& RELOCATION**







## OIL & GAS

- Oil Refining :
  - Crude and Vacuum Units
  - Hydrotreating & Hydrodesulphurization
  - Isomerization and Cat Reformer
  - FCC and Visbreaker
  - Bitumen Processing
- Gas Processing & LPG recovery

## LUBRICANTS

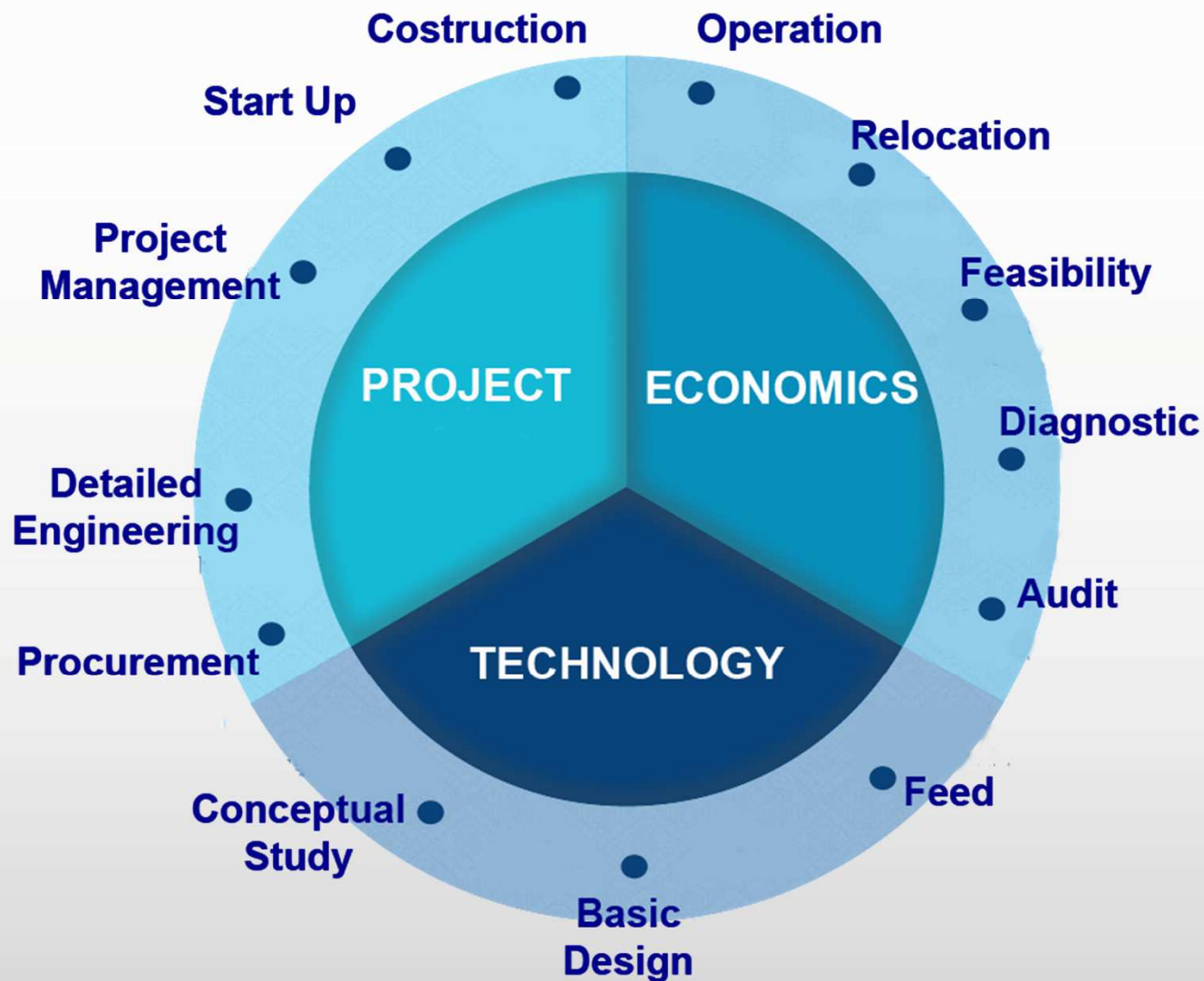
- Lube Oil Production
- Lube Oil Blending and Packaging
- Used Lube Oil Rerefining

## POWER / UTILITIES / OFFSITES

- Power Plants
- Utility and Offsite Facilities
- Storage and Loading

## PETROCHEMICALS / CHEMICALS

- Aromatics Plants
- Ethylene Plant
- Solvents Production Units (MIBK, MIBC)
- Pharmaceutical Production Modules





# USED LUBE OIL REREFINING 30<sup>+</sup> YEARS

S.T.P. is providing the last generation Used lube oil Re-refining Process based on High Vacuum Distillation with Film Evaporator and Chemical Treatment / Hydrofinishing to produce base oils Group I, I+ and II according to market specifications.



S.T.P. capabilities and expertise in metals recovery from WEEE include:

- Recovery of precious metals (Gold, Platinum, Silver, Palladium) from electronic cards and Printed Circuit Boards by hydrometallurgical technology
- Depollution and decontamination of industrial wastes for environment protection
- Plant capacity ranging from 500 to 5,000 tons/year of raw material
- Highly attractive plant economics (EBITDA, ROI, Payback)





S.T.P. provides Feasibility Studies, FEED, EPC, EPCM and PMC services either stand-alone or fully integrated as appropriate.

S.T.P. scope in Projects implementation includes:

## GENERAL STUDIES

- Feasibility studies
- Process optimization
- Revamping, expansion and debottlenecking
- Environmental impact evaluation, Risk analysis, HAZOP, Safety Report



## PROJECT MANAGEMENT SERVICES

- Project Management
- Project Planning and Control
- Document Management System



## ENGINEERING SERVICES

- Process Engineering
- Basic Engineering
- FEED
- Detailed Engineering (Mechanical, Machinery, Fired Heaters, Civil & Structures, Piping, Electrical, Instrumentation & Automation)
- Constructability Engineering



## GLOBAL PROCUREMENT SERVICES

- Requisitioning
- Purchasing
- Expediting
- Inspection and shipping coordination



## EPC AND EPCM PROJECTS

- Supply of equipment and material
- Construction and erection works
- Plant precommissioning and start up
- Training of personnel
- Maintenance services
- Technical assistance
- Plants dismantling & relocation
- Financing facility





- STP has implemented a brand new system of E-Procurement backed-up with Blockchain routines (powered by ORACLE), which enables to deal effectively with Vendors and Subcontractors, aiming to improve rapidness, possibility of direct negotiations and fast receipt of offers at the due date.
- This new platform enhances indeed transparency and allows reducing time-to-market offering to Clients a better service.
- Basically, the system is based on an agile interface with external stakeholders, allowing them to periodically update their profiles and their potential offerings to enhance the interaction with STP by a two-ways highway.
- Blockchain will furthermore allow Vendors and Subcontractors to count on a traceable and quicker interaction with STP and Clients to have access to significant and secured data whenever necessary.
- As STP is moving towards a shift in the business model, including even the Construction phase, this platform allows to proper select and monitor how Suppliers and Subcontractors work and how they stick to the required high level standards of quality, reliability and safety required.

## CUTTING HEAD TECHNOLOGY FOR O&M

STP is proposing the Predictive Maintenance Technique as a dynamic approach to O&M Services, based on a combination of the following highly innovative technologies :

- Artificial Intelligence (AI) routines, where software updates itself through machine learning features (ML) and is capable to activate alerts and estimate when maintenance should be performed. AI routines source their input data from the different equipment SCADA,
- Internet of Things (IoT) systems, connected through internet to all the different SCADA of each equipment and capable to switch on or off certain equipment (or any further required action), given the input received from AI routines,
- Blockchain protocol, for transferring, storing and sharing data in an unchangeable way, transparent and capable of segregating sensible data. By using Blockchain, combined with AI and IoT, we will be able to track in any moment what is happened and why. By doing so, we will be able to be always compliant with warranty guidelines and insurance procedures.
- Augmented Reality (AR) application to assist and speed up the Maintenance Team performance while performing their services

-





Predictive Maintenance application will always integrate with existing system (BIM and SAP).

The proposed approach allows to:

- reduce yearly cost of maintenance and spare parts,
- decrease significantly the time needed for equipment turnaround
- reduce insurance fees
- shrink drastically claims regarding maintenance activities,

## PROCESS DESIGN

Process simulation	ASPENTECH HYSYS V 12.1 CHEMCAD 5.2.0
Sweetening plant simulation	ASPEN HYSYS AMINE
Hydraulic calculation	L SIZE 1.03 (*)
Process line list	PUMA 5
Steam Network calculation	GATECYCLE
Flare/Blow down calculation	ASPEN FLARE SYSTEM ANALYZER CHEMCAD 5.4



## TOWER DESIGN

Towers Trays and internals	SULPACK 3.1 KG TOWER 5.1
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## HEAT TRANSFER

Heat integration	AUTOPINCH (*)
Thermal rating calculation	ASPEN HTFS+ V 12
Air cooler calculation	ASPEN AIR COOLER EXCH.

(\*) In house software

## ENGINEERING DESIGN

3D Plant Modeling

2D Design

Structural Design

Piping stress and flexibility analysis

PVHE Mechanical Design

Piping material management

Control valves calculation

Flow element calculation

Electrical design

Electric motor design

Lighting system design

Cables calculation and MTO/BOQ

CADMATIC 6.1.4

AVEVA PDMS 12.1

AUTOCAD 2013

SAP IV

CAESAR II

ASPEN HTFS TEAM 2006

MT-VESS

PUMA 5

QUICK SIZE 3.5

ISO FLOW

DOC WIN 2.1

I-PROJECT 3.0

ETAP 16

EXTEEM

DRIVE SIZE

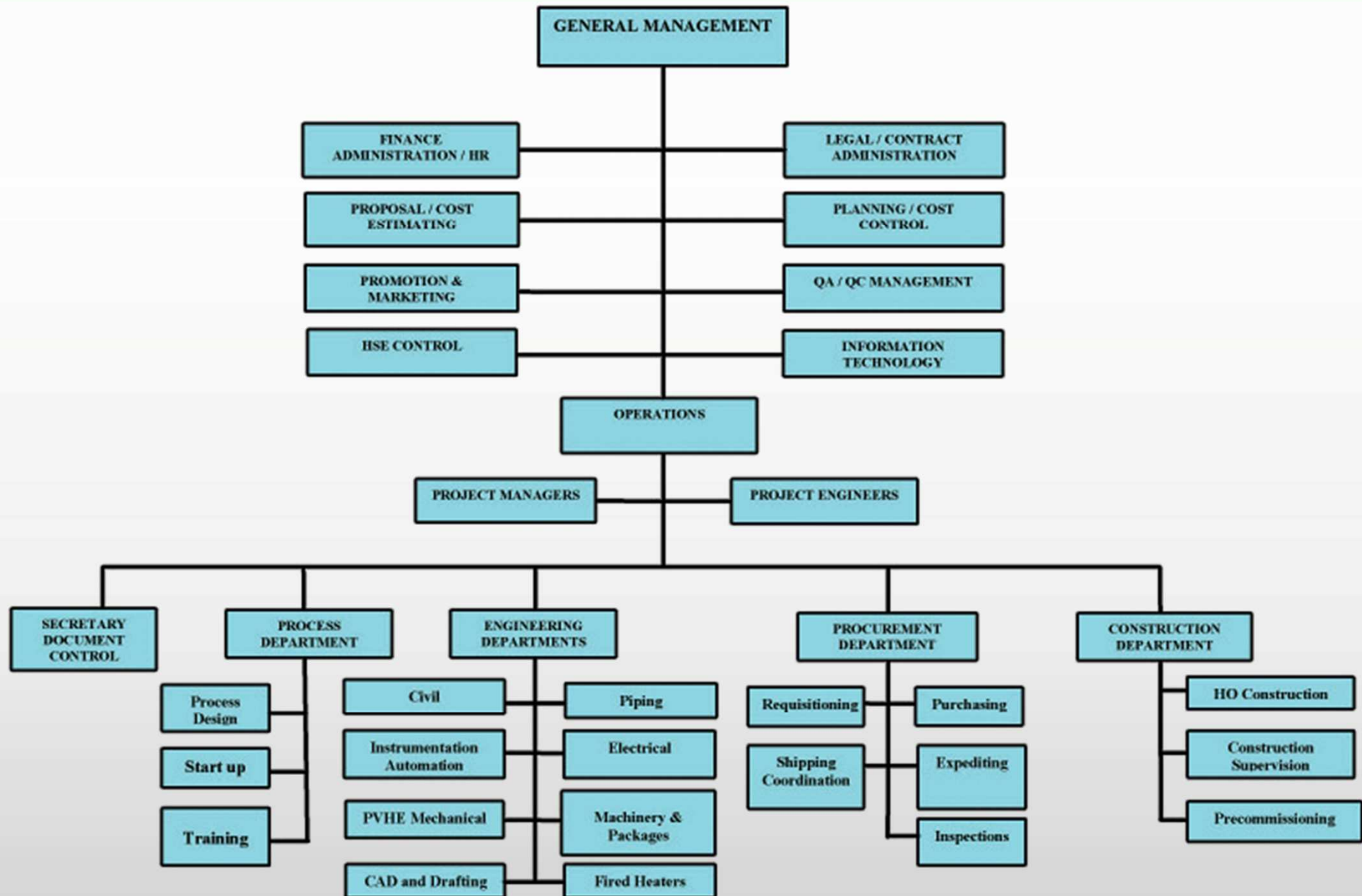
CALCULUX

DIALUX

JDC 3.0

BTICINO TSYSTEM 5.0













# **OIL REFINING**

## **Selected References**





**Project:** Crude Unit Revamping  
Bizerte, Tunisia

**Contract:** FEED

**Year:** Ongoing





CLIENT: **ILAM PETROCHEMICAL CO/IED** **30<sup>+</sup>** YEARS



**Project:** 45 m<sup>3</sup>/h Amine Regeneration Package  
Chavar, Iran

**Contract:** EPCM

**Year:** 2016





# CLIENT: MINISTRY OF OIL MIDLAND REFINERIES COMPANY

30+  
YEARS



**Project:** 40 m<sup>3</sup>/h In line Lube Oil Blending

**Contract:** EPC

**Year:** 2016 completed

28





# CLIENT: MINISTRY OF OIL MIDLAND REFINERIES COMPANY

30+  
YEARS



**Project:** 13,000 BPSD Light Naphtha Splitter  
Daura Refinery, Baghdad - Iraq

**Contract:** EPC

**Year:** 2016 Completed





# CLIENT: MINISTRY OF OIL MIDLAND REFINERIES COMPANY

30+  
YEARS



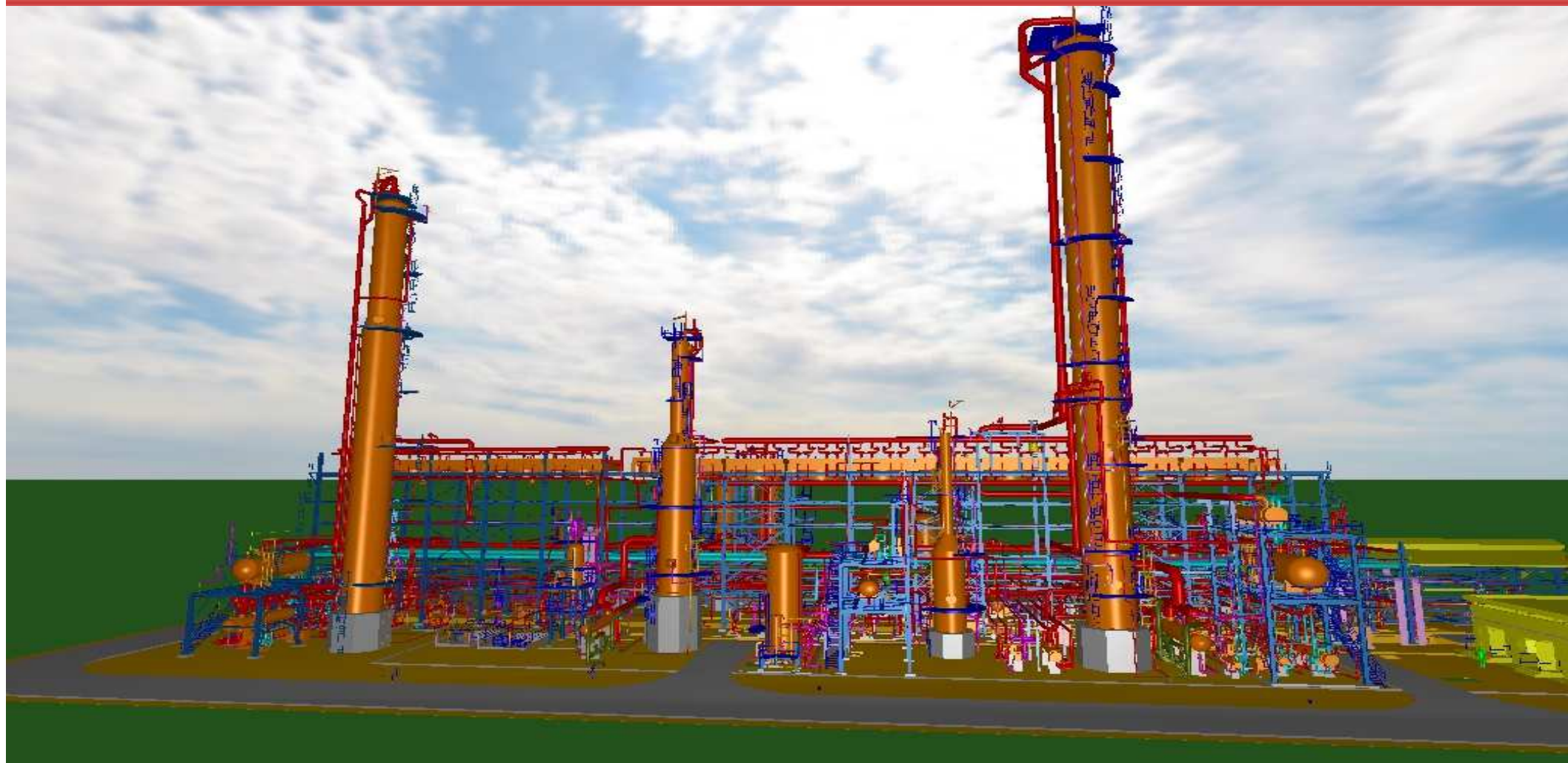
**Project:** 10,000 BPSD PENEX DIH Isomerization  
Daura Refinery, Baghdad - Iraq

**Contract:** EPC

**Year:** 2016 Completed

30





**Project:** 60,000 BPSD Refinery  
Benghazi, Libya

**Contract:** FEED

**Year:** 2013



CLIENT: **NATIONAL REFINERY LIMITED** **30<sup>+</sup>** YEARS



**Project:** 53,000 BPSD CDU & VDU Revamping  
Karachi Refinery, Pakistan

**Contract:** FEED

**Year:** 2013





**CLIENT: CALS REFINERIES LTD**

**30<sup>+</sup>**  
YEARS



**Project: 200,000 BPSD Refinery**  
**Haldia, West Bengal India**

**Contract: FEED**

**Year: 2011**





**Project:** VDU and Asphalt Blowing Revamping  
5,100 BPSD Arzew Refinery – Algeria  
5,600 BPSD Skikda Refinery – Algeria

**Contract:** FEED

**Year:** 2010 Completed





**CLIENT: ENI REFINING & MARKETING**

**30<sup>+</sup>**  
YEARS



**Project:** 280,000 Ton/y FCC CLO Fractionation  
Sannazzaro Refinery, Italy

**Contract:** FEED

**Year:** 2006

35





**Project:** 17,000 m3 Jet Fuel Storage Revamping  
Milazzo Refinery, Italy

**Contract:** EPC

**Year:** 2005





**Project:** 1,200 m<sup>3</sup>/h Mogas Blending  
Milazzo Refinery, Italy

**Contract:** FEED

**Year:** 2004



**CLIENT: ENI REFINING & MARKETING** **30<sup>+</sup> YEARS**



**Project:** 110,000 BPSD CDU Revamping / 45,000 BPSD VDU Revamping  
Livorno Refinery, Italy

**Contract:** FEED

**Year:** 2003

38





**CLIENT: ENI REFINING & MARKETING** **30<sup>+</sup>**  
**YEARS**



**Project:** 1,100,000 Ton/y Gasoline Splitter & Deisopentanizer  
Taranto, Italy

**Contract:** FEED

**Year:** 2002





**CLIENT: ENI REFINING & MARKETING** **30<sup>+</sup>**  
**YEARS**



**Project:** 40,000 Ton/y Gasoline Rerun Unit  
Sannazzaro Refinery, Italy

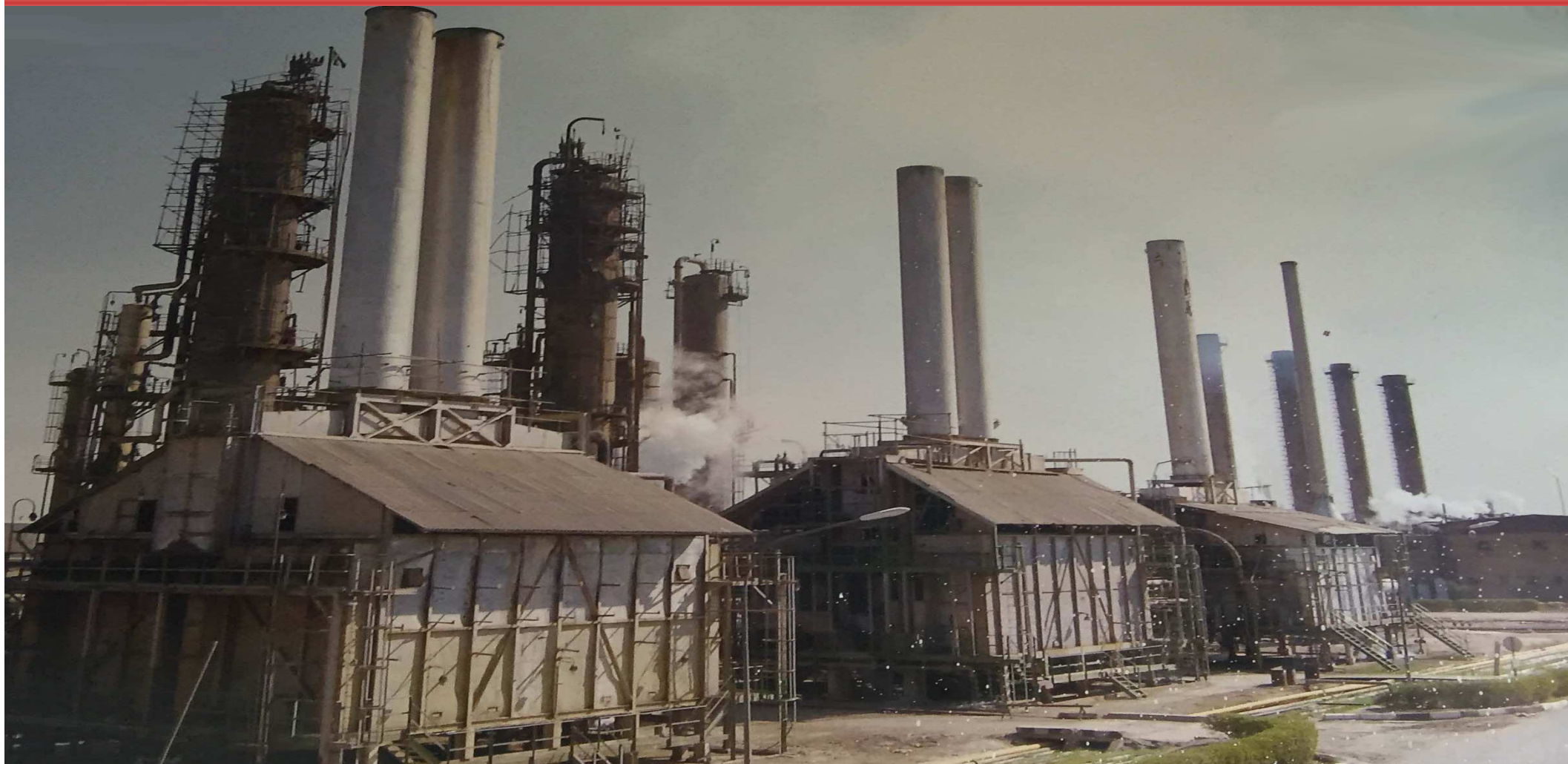
**Contract:** FEED

**Year:** 2002



# CLIENT: SOMO MIDLAND REFINERIES COMPANY

30+  
YEARS



**Project:** Crude Heaters and Boilers Revamping  
Daura Refinery, Baghdad - Iraq

**Contract:** FEED

**Year:** 2000





CLIENT: **TECHNIP/MOTOR OIL HELLAS** **30<sup>+</sup>** YEARS



**Project:** 35,000 BPSD FCC Unit  
Corinth, Greece

**Contract:** Detailed Engineering

**Year:** 2000





CLIENT: **ALEXANDRIA PETROLEUM CO.** 30<sup>+</sup> YEARS



**Project:** 50,000 BPSD CDU N. 3 & 4 Revamping  
Alexandria, Egypt

**Contract:** FEED

**Year:** 1998





**Project:** 40,000 BPSD Crude Heater Revamping  
Biserta, Tunisia

**Contract:** FEED

**Year:** 1999



CLIENT: **ALEXANDRIA PETROLEUM CO.** **30<sup>+</sup>** YEARS



**Project:** 200,000 Ton/y Soft Wax Recovery  
Alexandria, Egypt

**Contract:** EPCM

**Year:** 1998 Completed





**Project:** 40,000 Ton/y Lube Oil Blending  
Nola, Italy

**Contract:** EPC

**Year:** 1997 Completed





**Project:** 100,000 Ton/y Benzene Hydrogenation (UOP)  
Rome Refinery, Italy

**Contract:** EPCM

**Year:** 1995 Completed





# **GAS PROCESSING**

## **Selected References**



**Project:** Gas compression station 4 x 25 MW  
Upgraded turbo compressors, Messina, Italy

**Project:** Gas compression station 2 x 30 MW turbo  
compressors, Messina, Italy

**Contract:** PMC Engineering Services, Safety organization, Site Management Services





**Project:** Gas underground storage and compression station 2 x 10 MW turbo compressors, Sabbioncello, Italy

**Contract:** PMC Engineering Services, Safety organization, Site Management Services





**Project:** Upgrading and relocation of 4" to 36" gas pipelines, 25 Km length, 75 bar pressure – North of Italy

**Contract:** Design check and Site management including safety organization





# CLIENT: ENI GAS EXPLORATION & PRODUCTION

30+  
YEARS



**Project:** 600,000 Nm<sup>3</sup>/d Gas Treatment  
Candela Gas Field, Italy

**Contract:** EPCM

**Year:** 2006 Completed

52





**Project:** 3.0 M Nm<sup>3</sup>/d Natural Gas Processing  
Gazaciak, Turkmenistan

**Contract:** EPCM

**Year:** 1995 Completed





# **LUBRICANTS**

## **Selected References**



**Project:** 5.600 BPSD Used Lube Oil Re-refining Unit  
Texas City, USA

**Contract:** FEED

**Year:** Ongoing



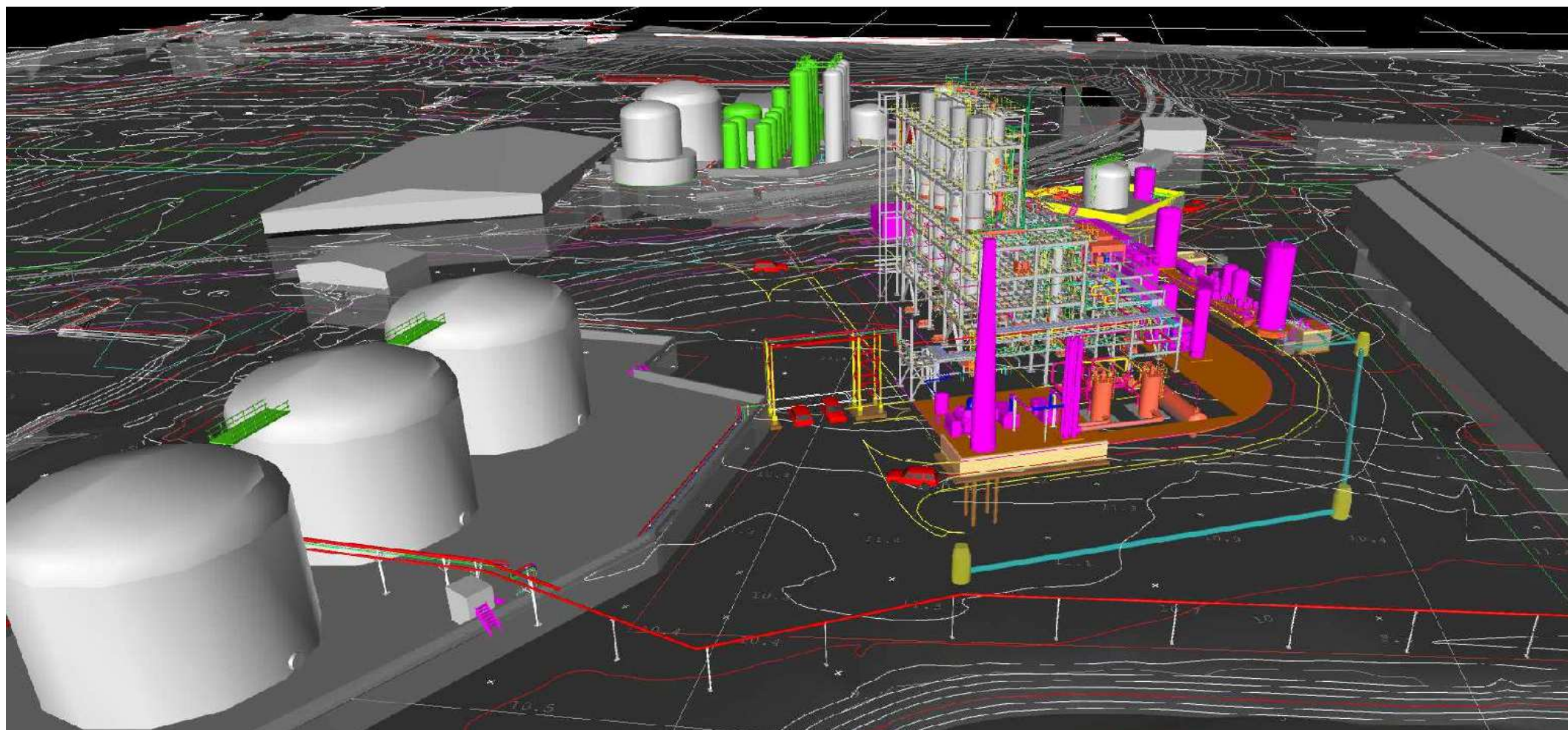


**Project:** 60,000 T/y Waste Lube Oil Re-refining  
Klaipeda, Lithuania

**Contract:** EPCM

**Year:** Ongoing





**Project:** 2.500 BPSD Used Motor Oil Recycling Unit  
Baltimore, USA

**Contract:** FEED

**Year:** 2020





**Project:** 150.000 T/y Used Lube Oil Rerefining  
Russia

**Contract:** EPCM

**Year:** Ongoing



**Project:** 150.000 T/y Used Lube Oil Rerefining  
Russia

**Contract:** EPCM

**Year:** Ongoing





**Project:** 60,000 T/y Used Lube Oil Re-refining  
St. Hyacinthe, Quebec

**Contract:** EPCM

**Year:** 2013 Completed



**Project:** 120,000 T/y Used Lube Oil Re-refining  
Gonfreville l'Orcher, France

**Contract:** EPC

**Year:** 2012 Completed



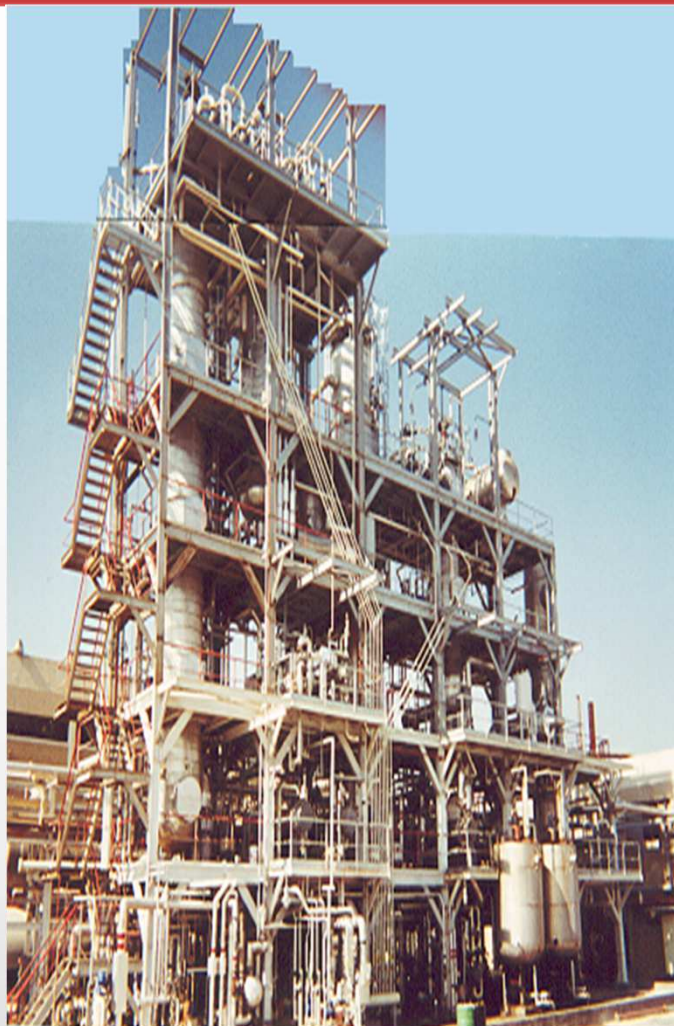


**Project:** 30,000 T/y Used Lube Oil Re-refining  
Nola, Italy

**Contract:** EPC

**Year:** 2007 Completed





**Project:** 27,000 Ton/y Used Lube Oil Re-refining  
Ahmadi, Kuwait

**Contract:** EPC

**Year:** 2000 Completed





**Project:** 20,000 Ton/y Used Lube Oil Re-refining  
Bizerte, Tunisie

**Contract:** EPC

**Year:** 1999 Completed





**Project:** 60,000 T/y Used Lube Oil Re-refining  
Lencois Paulista – Brazil

**Contract:** FEED

**Year:** 1996





**Project:** 30,000 Ton/y Lube Oil Fractionation  
Napoli, Italy

**Contract:** EPC

**Year:** 1995 Completed

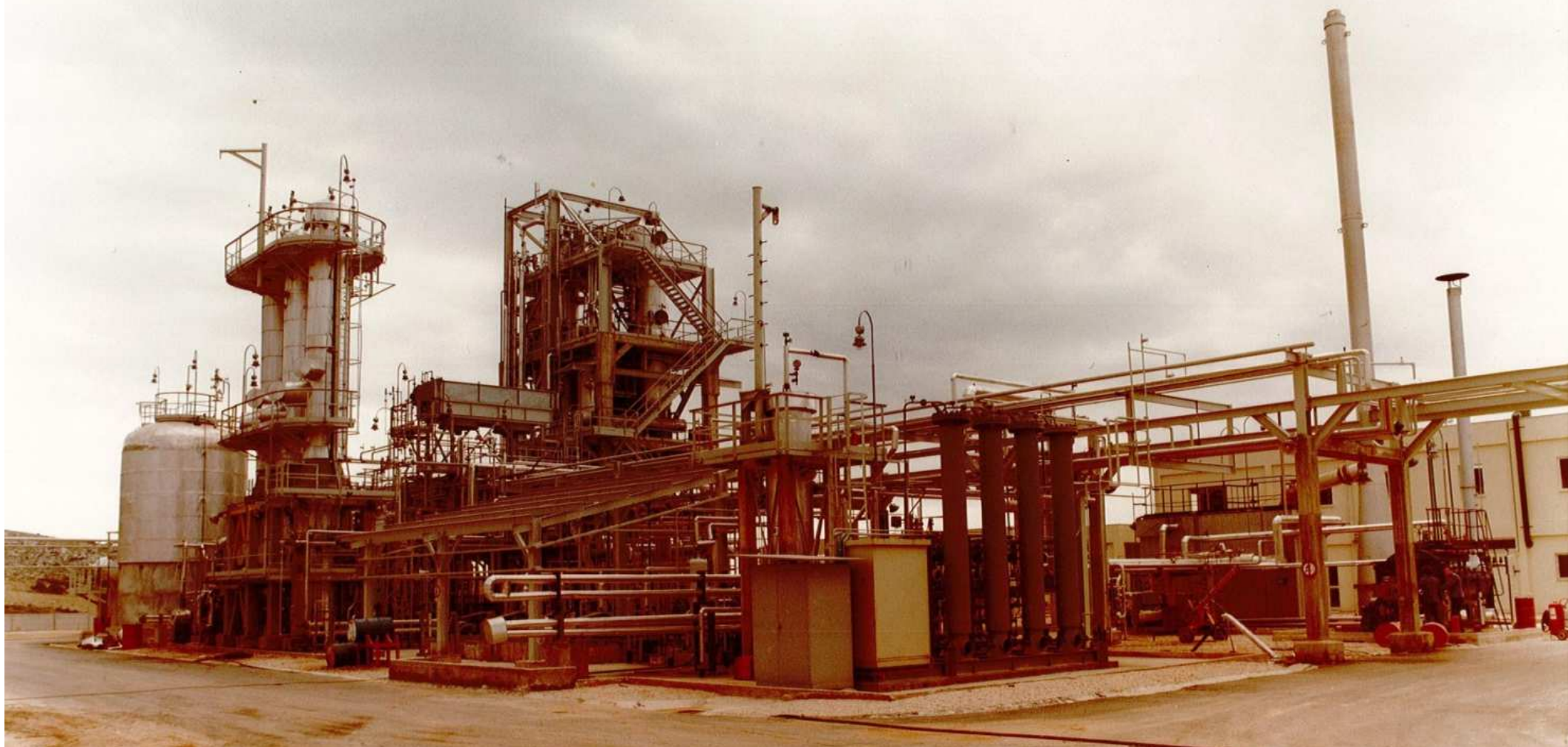


**Project:** 16,000 Ton/y Used Lube Oil Re-refining  
Bizerte, Tunisie

**Contract:** EPC

**Year:** 1989





**Project:** 25,000 Ton/y Used Lube Oil Re-refining  
Aspropyrgos, Greece

**Contract:** EPC

**Year:** 1985



# **PETROCHEMICALS & CHEMICALS**

## **Selected References**





**Project:** Ethylene Recovery Unit  
Sanandaj, Iran

**Contract:** EPCM

**Year:** 2013





CLIENT: **BOSICOR CHEMICALS PAKISTAN** 30<sup>+</sup> YEARS



**Project:** Aromatics Plant Relocation  
KRC Naples Refinery, Italy

**Contract:** EPC

**Year:** 2008





**Project:** Irbesartan Pharmaceutical Plant  
Swords, Ireland

**Contract:** EPCM

**Year:** 2000 Completed



**Project:** Fenilglicine Expansion  
Colleferro, Italy

**Contract:** EPCM

**Year:** 2000





**CLIENT: BRISTOL-MYERS SQUIBB**

**30<sup>+</sup>**  
YEARS



**Project:** Solvent Recovery Unit  
Sermoneta, Italy

**Contract:** EPCM

**Year:** 1996 Completed

74



**CLIENT: BRISTOL - MYERS SQUIBB**

**30<sup>+</sup>**  
YEARS



**Project:** 10 m<sup>3</sup>/hr Sour Water Stripper  
Sermoneta, Italy

**Contract:** EPCM

**Year:** 1995 Completed

75





# CONTACT US

**30+**  
YEARS



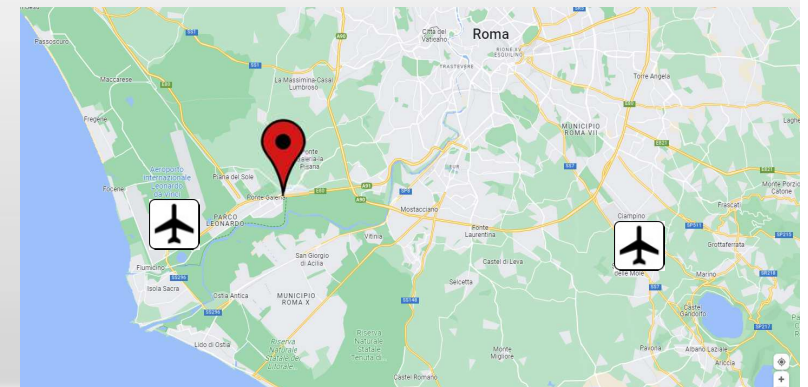
## HOME OFFICE

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**Thank you for your attention**