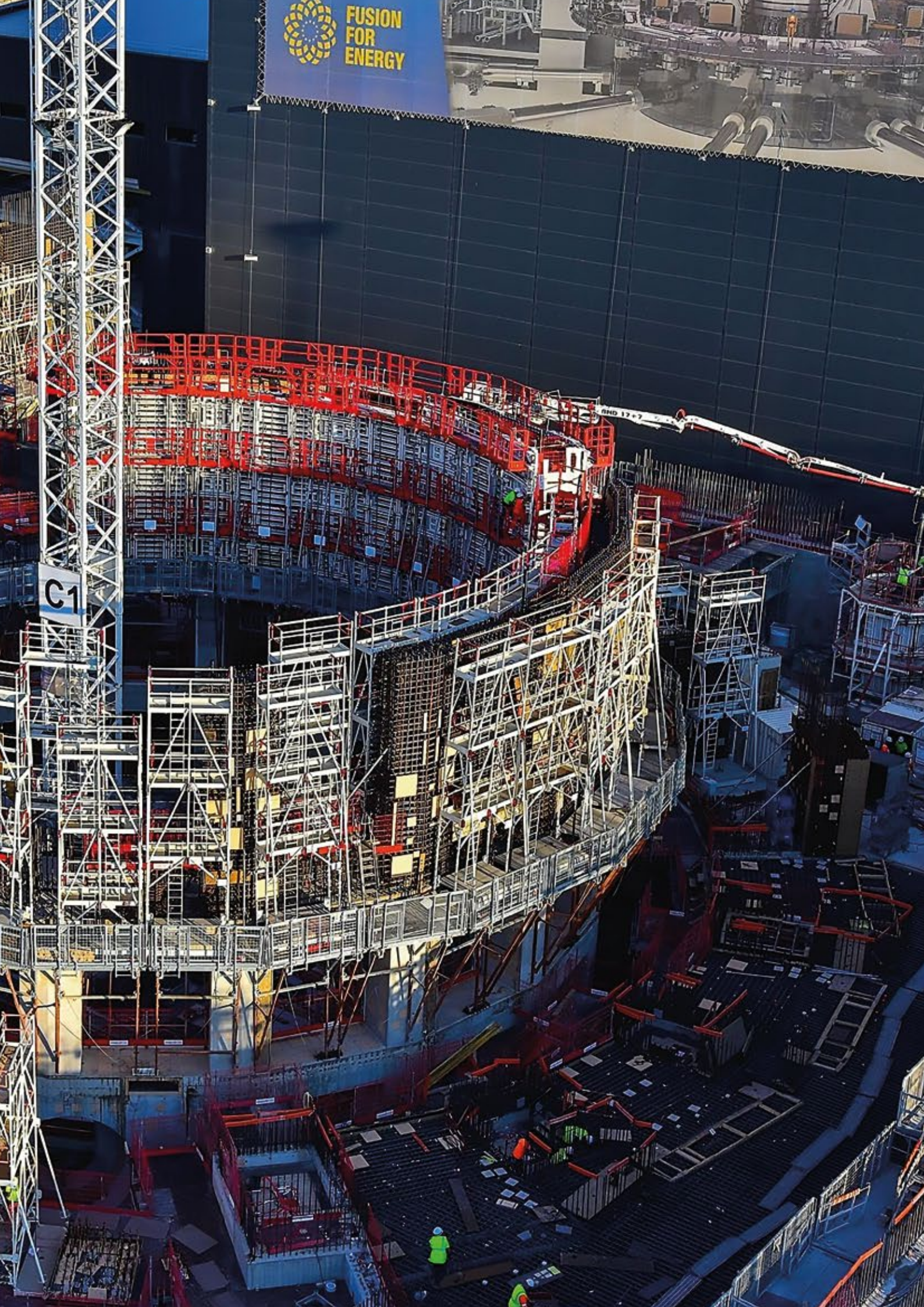




CONSTRUCTION & MAINTENANCE SINCE 1921



FUSION FOR ENERGY





CONSTRUCTION & MAINTENANCE SINCE 1921

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OVER ONE HUNDRED YEARS

OF INDUSTRIAL
ENGINEERING
FROM BARI TO EUROPE

20
22





Cestaro Rossi & C. S.p.A. is an Italian Company engaged in Erection and Maintenance of Mechanical and Electrical-instrumental Plants for Oil Refineries, Nuclear Plants, Power and Industrial Plants. Cestaro Rossi & C. S.p.A. embodies all the experience acquired by operating in different industrial settings, both in the field of maintenance and in the field of advanced plants erection.

CUSTOMIZED AND FLEXIBLE SERVICE

Planning and performing single mechanical and/or electro-instrumental works;

Planning and performing commissioned works, coordinating other contractors activity as the main contractor;

Planning and turnkey performance of all contracted works required;

Integrated GLOBAL SERVICE.

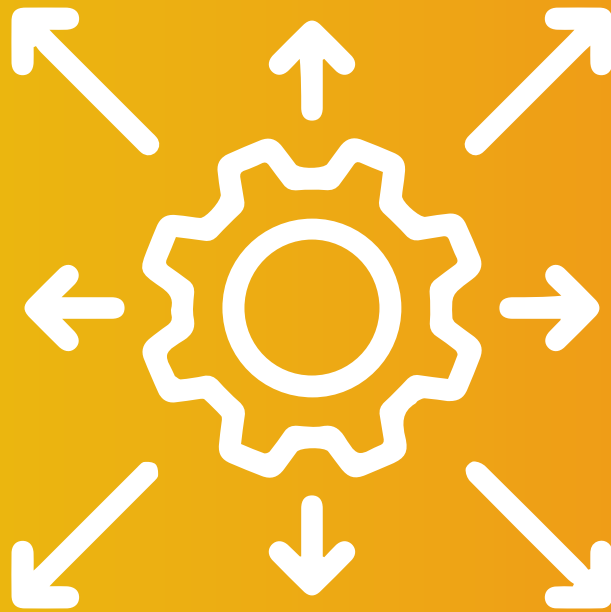
Cestaro Rossi & C. S.p.A., established in Bari in 1921, is a leader in the Prefabrication, Erection and Mechanical Maintenance (Turnaround) of Oil Refinery, Petrochemical Plants as well as Power Plants and Industrial Plants. Field of activity: Piping prefabrication and erection (carbon steel, AISI and alloy steel), Steel structures prefabrication and erection, Mechanical equipment installation, Equipment maintenance.

The Electrical Division of the Company is leader in the Electrical/Instrumental installations and maintenance for MV and LV Systems, including Explosion-proof electrical installations, Electrical Panels and Instrumental Calibration/Installation/Maintenance for Oil Refinery, Power and Industrial Plants.

TRAINING / INFORMATION
TECHNICAL / IT UPDATE
SAFETY AND ENVIRONMENTAL CULTURE
CUSTOMER SATISFACTION
EQUIPMENT INNOVATION / RENEWAL

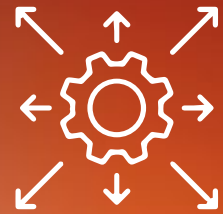
CUSTOMER SATISFACTION

FIELD OF ACTIVITY



The dynamic managerial and operational adjustment makes the Group today increasingly complete and competitive in the sector of construction and maintenance of industrial plants.

FIELD OF ACTIVITY



GLOBAL SERVICE MECHANICAL, ELECTRICAL/INSTRUMENTATION, TECHNOLOGICAL AND CIVIL CONSTRUCTION

- Oil Refineries
- Nuclear Plants
- Petrochemical Plants
- Pharmaceutical Plants
- Power Plants
- Industrial Plants
- Industrial Buildings
- Business centers
- Petrol Stations
- Photovoltaic Plants
- Tertiary
- Biomass Power Plants



MECHANICAL AND ELECTRICAL PREFABRICATION

- Scheduling and coordinating of the Activities
- Structural steel
- Piping (carbon steel, stainless steel, alloy steel, special steel)
- Low Voltage Panels
- Electrical-instrumental Panels
- Technological Plants



SKID PRODUCTION PLANT MODULARIZATION

- Designing starting from the Customer data
- Material Procurement
- Prefabrication and installation of:
 - Steel frame
 - Piping
 - Valves
 - Instruments with primary connection piping, JB and cabling
- NDT
- Testing
- Allround transport
- On-site Installation (mec/ele/instr.)
- Commissioning Assistance



ERECTION AND NEW CONSTRUCTION MECHANICAL AND ELECTRICAL INSTRUMENTATION PLANTS

- Scheduling and coordinating Activities
- Structural steel Erection
- Piping Erection (carbon steel, stainless steel, alloy steel, special steel)
- Equipments Erection
- Tanks Erection
- Water Treatment Plants Erection
- HV/MV/LV Electrical Plants Erection, also in hazardous areas (explosion area)
- Instrumental Plants Erection, including instrumentation setting
- LV/MV Panel Erection
- Photovoltaic Plant Erection
- HV/MV/LV Electrical Substations Erection
- HVAC Plants Erection



ROUTINE MAINTENANCE
MECHANICAL
AND ELECTRICAL
INSTRUMENTATION PLANTS

- Scheduling and coordinating activities
- Piping Maintenance (carbon steel, stainless steel, alloy steel, special steel)
- Equipment Maintenance
- Tanks Maintenance
- Water Treatment Plants Maintenance
- HV/MV/LV Electrical Plants Maintenance, also in hazardous areas (explosion area)
- Instrumental Plants Maintenance, including instrumental setting
- LV/MV Panel Maintenance
- Photovoltaic Plant Maintenance
- HV/MV/LV Electrical Substations Maintenance
- HVAC Plants Maintenance
- HP Cleaning;
- HP Water Cutting



REFINERY/POWER
PLANTS/PETROCHEMICAL
TURNAROUND
MECHANICAL AND
ELECTRICAL/INSTRUMENTATION
PROCESS PLANTS

- Activities scheduling and coordination
- Piping construction and installation/replacement
- Fittings and valves overhauling
- Equipment maintenance (exch., vessels, columns, air-coolers etc)
- Electrical Plants Maintenance
- Instruments Maintenance
- Equipments hp water cleaning
- Bundles replacement
- Furnaces maintenance and overhauling
- Boilers maintenance and overhauling
- Equipment overhauling and replacement internal parts
- Equipment overhauling with partial replacement of shell and/or top



PHOTOVOLTAIC / BIOMASS POWER PLANTS

- Due diligence and Authorizations
- Plant Designing
- Material Purchasing
- Plant Construction (civil works, Mechanical and Electrical installation)
- Plant Start-up
- Routine Maintenance



OFF-SHORE MECHANICAL MAINTENANCE

- Piping Maintenance (carbon steel, stainless steel, alloy steel, special steel)
- Equipment Maintenance



PATROL STATION

- Plant Designing
- Demolition of existing plants
- Plant Construction (civil works, Mechanical and Electrical installation)
- Plant Start-up
- Routine Maintenance
- Plant Rebuilding



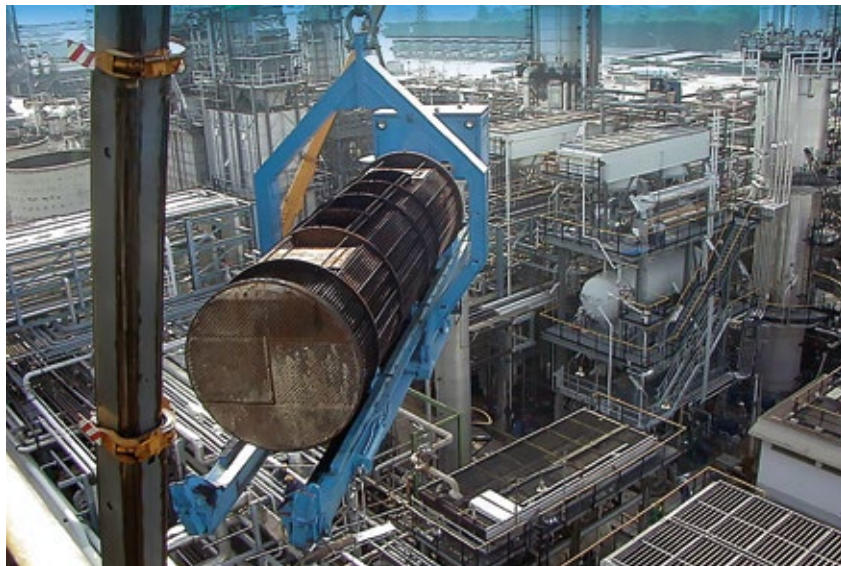
CIVIL WORKS

- Contracts and authorization
- Preliminary, final and in detailed design
- Concrete works performance
- Testing



SELF-DESIGNING AND CONSTRUCTION OF SPECIAL EQUIPMENT WORKING

- Bundle Extractor
- Bundle Transporter



MECHANICAL AND ELECTRICAL DESIGNING

- Mechanical Steel Designing
- MV/LV Electrical Designing

SUSTAINABILITY



Our commitment in
environmental
sustainability

SUSTAINABILITY



Our Company commitment in environmental sustainability started in 2019, in compliance with the global guidelines set out by the Paris Agreements and oriented to the abatement of greenhouse emissions, to reduce the use and disposal of plastics and more in general, with a view to any other aspect that can improve the environmental situation of the planet.

ZERO ENVIRONMENTAL IMPACT

In 2019 the first electric JMG cranes were purchased, with full remote operation and zero environmental impact. Their reduced dimensions and very small turning circle allow working in tight spaces and enclosed environments emission free, safeguarding operators' health and safety. A winning feature constantly and increasingly pursued by the company.

In 2020 the company started an upgrading path for the lifting equipment, increasing the vehicle fleet with the first new generation LIEBHERR mobile crane, equipped with sensors and innovative electronic and software solutions. A choice that perfectly places our company in the framework of Industry 4.0: the new industrial process in which we are actively moving.

The cranes are equipped with a single engine (the previous models used two engines instead) which can operate both the crane carriage and tower, allowing fuel consumption reduction. Very high efficiency is guaranteed by the connection to a cardan shaft that keeps low engine speed while providing enough power to operate the tower, optimizing fuel consumption as a consequence. Maintenance costs and the crane weight are reduced thanks to the single engine used. The weight reduction then, allows the use of material in other structural elements and therefore increases the bearing capacity.



NEW LOW ENVIRONMENTAL IMPACT LIEBHERR MOBILE CRANE



GRU ELETTRICA
A COMANDO
REMOTO

The additional ECOmode program furtherly reduces consumption: the pumps traction with the engine at idle can switch off automatically and an intelligent control can switch it back on in few seconds, when required.

In the same year, the company established a task force dedicated to the central focus of sustainability, aimed at achieving the goal of 'sustainable provider' and meet the needs and requests of clients thereto related.

In addition, the first plastic free initiatives were implemented, with the target of eliminating the purchase and consequent accumulation and disposal of single-use plastic waste such as cups, coffee stirrers, and water bottles.

In 2021, more LIEBHERR mobile cranes and electric JMG cranes were purchased to keep working more efficiently, without neglecting the environmental impact.

With a view to pursue the target of becoming a sustainable company and according to our clients' requirements, we have acted promptly filling in questionnaires and surveys on the main dedicated web-portals:

- OPEN-ES FOR OUR CLIENT ENI
- ECOVADIS FOR OUR CLIENT ENGIE
- ECG CRIF FOR OUR CLIENT AEROPORTI DI ROMA



Liebherr new generation mobile crane equipped with sensors and cutting-edge electronic and It solutions which frame it within industry 4.0



QUALITY
SAFETY
ENVIRONMENT



Certification system
UNI EN ISO 9001:2015
UNI EN ISO 14001:2015
ISO 45001 e MASE

HSEQ SYSTEM



Cestaro Management ensures its commitment in the fulfilment of a quality, safety and environment management system based on the principle of continuous improvement and formalized by the implementation of a quality/safety/environment system, a system certified according to UNI EN ISO 9001:2015, UNI EN ISO 14001:2015, ISO 45001 and MASE.

The aim of the Management is to improve results in accident prevention for workers, staff or temporary workforce and to guarantee safety for both equipment and clients' services.

This commitment results in the implementation of the following guidelines:

- **Conveying to the personnel our priority concerning the compliance with the safety conditions required by the client and with the regulations.**
- **Establishing a policy for safety, quality and environment targets.**
- **Organizing regular audits to check the system's effectiveness.**
- **Making available the resources required for the proper operation of the system.**
- **Informing the personnel about the framework, the performance and the person in charge of audits for all those activities affecting quality, safety and environment.**
- **Promoting improvement projects in the continuous search of new methods, solutions and products.**
- **Fostering feedback.**
- **Identifying support processes providing added value to the company.**
- **Creating a climate of confidence supporting the personnel involvement and development.**



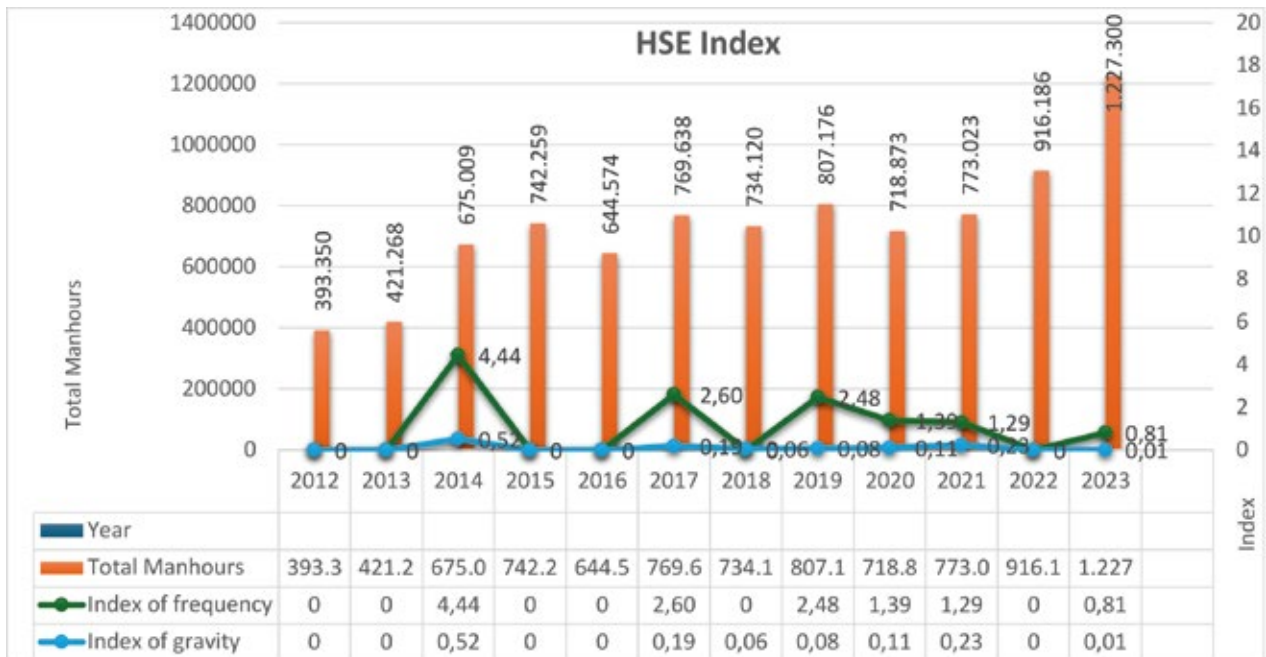
The Company Management moreover commits to:

- Promote policy and targets to develop the personnel awareness, motivation and involvement
- Consider the continuous improvement as a target of the organization;
- Plan the future development of the organization;
- Take into consideration present and future needs of the client

Auditing the company's performance allows to check the achievement of strategical targets.

The company also ensures the disclosure of HSE instructions throughout the different levels and functions.

Transmitting information about safety, quality, environment, targets and results allows the involvement of the whole staff. Internal communication means could include meetings, safety notes, etc.



CESTARORossi



THE COMPANY GROUP



Headquarters
Workshops
Sites

THE COMPANY GROUP



TECHNICAL-ADMINISTRATIVE HEADQUARTERS

The head office, heart of the company, is in the center of Bari. It hosts about 50 technical/administrative employees and the Top Management. The following departments are centralized in the unit:

- **Top management**
- **Purchase office**
- **Commercial office**
- **Technical management**
- **Administrative management**

WORKSHOPS

The workshop in the industrial area of Bari is equipped to carry-out mechanical prefabrication works on pipes and steel structures as well as electric assembly works for panels, LV/MV electric Substations, remote-control, in a covered area of about 5000 sq. m. over a total area stretching over about 11000 sq.m





WORK SITES THROUGHOUT ITALY

The activities are carried out in various sites throughout in Italy. In particular:

■ BARI

Head Office and n. 3 workshop for the prefabrication of piping, steel structures and electric panels
Long Term Contract for Mechanical and electrical/instrumentation
Maintenance – Combined Cycle Power Plant 800 MW

■ TARANTO

Long Term Contract for Mechanical Maintenance Refinery ENI S.p.A.

■ LIVORNO

Long Term Contract for Mechanical and Electrical and I&C Maintenance Refinery ENI

■ MILAZZO

Long Term Contract for electrical/instr. Maintenance – Refinery RAM

■ PIOMBINO

Global Service Contract - Steel Factory Liberty (ex Arcelor Mittal).

■ ROSIGNANO

Long Term Contract for Mechanical and electrical/instrumentation
Maintenance at Engie Power Plant

■ TRECATE

Long Term Contract for Electrical/Instr. Maintenance- Refinery Exxon

■ SANNAZZARO

Long Term Contract for Mechanical and Electrical and I&C Maintenance- Refinery ENI

■ BRINDISI

Long Term Contract for Mechanical and Electrical and I&C Maintenance- in the Pharmaceutical
Plant Euroapi (ex Sanofi)

■ PRIOLO

Long Term Contract for Mechanical Maintenance in Versalis Plant

■ VADO LIGURE

Long Term Contract for Electrical/Instr. Maintenance in Exxon Fuel depot and lubricant oils
production

Furthermore, since 2017 we have been present at the Cadarache construction site in France for the ITER PROJECT, the construction of the new Nuclear Fusion Power Plant (the first in the world), for the performance of mechanical and electrical instrumental works.



-  **Head Office / Branch Office**
-  **Long Term Contract**
-  **Turn Around**
-  **New Construction**
-  **Select Supplier**

- KALUNDBORG Refinery
- Exxon Fawley
- ZR Zeeland
- GUNVOR Rotterdam
- Total Leuna
- Total Antwerpen
- Total Normandie
- Exxon Gravenchon
- Mineralöl raffinerie Oberrhein
- Bayernoil Munich
- Total Donges
- Total Paris
- VARO Cressier
- BO Lyon
- Total Feyzin
- Tamoil Collombey
- Sarpom Trecate
- Tamoil Cremona
- ENI Marghera
- ITER Cadarache
- ENI Sannazzaro
- IPLM Busalla
- IES Mantova
- NIS Pančevo
- Exxon VADO
- Total La Mède
- Oxochimie Lavera
- MASOL Livorno
- BO Livorno
- API Falconara
- ENI, Engie, Arcelor Mittal Livorno
- API Roma
- HO Bari
- EUROAPI (ex SANOFI) Brindisi
- SORGENIA Bari
- ENI Taranto
- SARAS Sarroch
- RAM Milazzo
- Sonatrach Augusta
- Versalis Priolo
- Lukoil Siracusa
- MOTOROIL Corinth



EXTRAORDINARY MAINTENANCE

Turnaround works in:

- | | | | |
|---------------------|-----------------------------------|---------------------|---------------------------------------|
| ■ PRIOLO | Refinery Lukoil | ■ MARSEILLES | Naphtachimie Plant - France |
| ■ BUSALLA | Refinery Iplom | ■ COLLOMBEY | Naphtachimie Plant |
| ■ MILAZZO | Refinery ENI | ■ KALUNDBORG | Refinery Equinor – Denmark |
| ■ TRECATE | Refinery Sarpom | ■ ROTTERDAM | Refinery Gunvor – Netherlands |
| ■ FALCONARA | Refinery API | ■ LE HAVRE | Refinery Totalenergies – France |
| ■ SANNAZARO | Refinery ENI | ■ ZEELAND | Totalenergies/LukoilRefinery– Holland |
| ■ PARIS | Totalenergies Grandpuits Refinery | ■ FEYZIN | Refinery Totalenergies – France |
| ■ MARSEILLES | Oxochimie Plant - France | ■ ANTWERP | Refinery Totalenergies - Belgium |



WORKFORCE IN 2023

15

MANAGERS

100

TECHNICIANS
ADMINISTRATION

10

SAFETY
ASSISTANTS

200

MECHANICAL
SKILLED WORKERS

45

MECHANICAL
CARPENTERS

200

ELECTRICIANS/INSTRUM.
SKILLED WORKERS

25

WELDERS

45

PIPING FITTER

10

CRANE OPERATOR
DRIVERS



CERTIFICATIONS AND LICENCES

Each company of the group works under a Quality system certified by international organizations, always guaranteeing maximum reliability.

- **Quality Certification** **UNI EN ISO 9001:2015 - ASACERT**
- **Environmental Certification** **UNI EN ISO 14001:2015 - ASACERT**
- **Safety Certification** **ISO 45001:2018 - ASACERT**
- **S.O.A. Certification** **OG9 VIII - OG10 VII – OG11 IV – OS18-A VI**
- **Other Certifications** **MASE /UIC (Safety French)**
VCA For personnel
EN ISO 3834-2:2006 (Welding quality)
EN 1591-4 Flanged joints personnel qualification
EN-1090-1 STEEL STRUCTURE
F-GAS fluorinated greenhouse gases
Welding Training Center - Certified by IIS
SA8000:2014 - Social Accountability System
UNI/PdR 125:2022 – Gender equality
- **Licences** **Legge 37/08 (ex 46/90)**
NOS (Nulla Osta Sicurezza)
ESCO (Energy Service Company)
Fibra Ottica – Installatore autorizzato TCK.LAN



MAIN EQUIPMENT

CESTARO ROSSI GROUP is provided with suitable equipment and means to carry out its activities under any weather condition.

■ n. 2 Crane 230T	■ n. 2 Electrical Cranes 3,2T
■ n. 1 Crane 180T	■ n. 1 Electrical Cranes 6T
■ n. 1 Crane 120T	■ n. 6 Electrical Cranes 10T
■ n. 1 Crane 110T	■ n. 1 Telescopic Lifter 12T
■ n. 2 Crane 90T	■ n. 9 Telescopic Lifter 2,5T
■ n. 1 Crane 75T	■ n. 17 Hydraulic Forklift
■ n. 1 Crane 60T	■ n. 3 Electrical Forklift
■ n. 1 Crane 35T	■ n. 18 Hydraulic platforms for heights up to 26 meters
■ n. 7 Crane 30T	■ n. 1 Truck-mounted aerial platforms
■ n. 2 Crane 25T	■ n. 10 Heavy vehicles
■ n. 1 Crane 15T	■ n. 74 Vans
■ n. 1 Crane 12T	■ n. 2 IVECO bus
■ n. 1 Crane 10T	■ n. 93 Cars / Off-road vehicles
■ n. 1 Crane 9T	



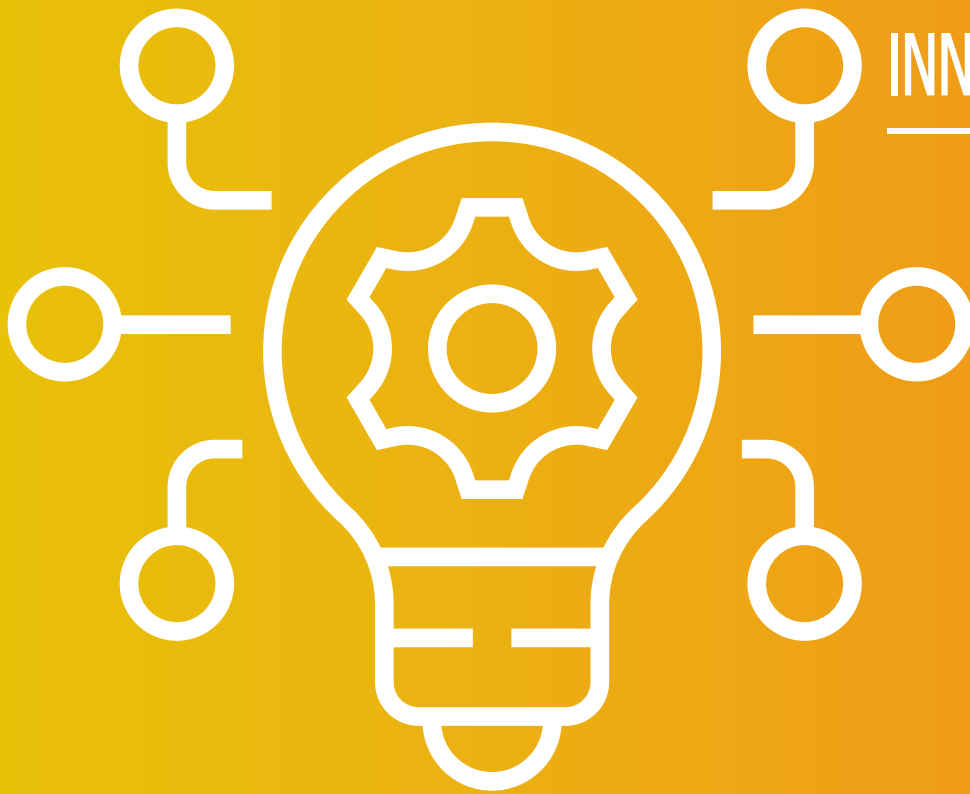
MAIN EQUIPMENT

- n. 7 Aerial Bundles Extractors
- n. 1 Tube bundle extractor on truck
- n. 1 Self-propelled tube bundle extractor
- n. 4 Bundles Transporter
- n. 15 Generator set 150 kVA
- n. 6 Generator set 250 kVA
- n. 1 Generator set 350 kVA
- n. 2 Generator set 500 kVA
- n. 134 Motor welding machines 250/500 A
- n. 218 Electrowelders 250/600 A
- n. 54 Motor compressors 1500/6000 L/m
- n. 3 Heat treatment machines 80/160 kVA
- n. 3 Equipment for laying electrical cables (pulling)
- n. 600 Toolboxes for pipe makers, carpenters, welders, fitters, electr./instrum.
- n. 1 Complete laboratory equipped for instrumentation calibration
- n. 230 Multimeters, Calibrators, Configurators, ovens
- n. 52 Insulation meters up to 5 kV
- n. 1 Hi-pot test 80/160 kV
- n. 3 Fiber optic splice
- n. 2 OTDR (Time Domain Optical Reflectometer) for the analysis and diagnostics of
- n. 31 Pump units for hydraulic testing
- n. 2 Motor pumps for washing A.P. 100/2000 Bar
- n. 3 Hydrodynamic Machines
- n. 4 Vehicles with low-bed trailer
- 1.000 mq Box for offices, warehouses, changing rooms, canteens, toilets



MAIN CUSTOMERS





INNOVATION

After 100 years' activity,
the need is for
continuous renewal and
innovation.

INNOVATION



A Company that now is 100-year-old needs continuous renewal and innovation, in order to anticipate the Market rather than chase it.

Innovation for us is a synonym for improvement and development of the key sectors, such as safety on site, service quality, acquisition of new markets and strengthening relations with our best Customers.

Our work experiences out of Italy in the last years have been a huge incentive to innovation; each project we carried out abroad gave us important starting points for development and improvement, for instance:

2014

Project "Turnaround of Grandpuits Total Refinery Plants (France) Distillation Unit".

The first real experience abroad tested our Company, on an important unit like the Topping, and convinced us about the usefulness of technological exchanges and confrontation on themes as safety and quality with the "foreign" Client, and the resulting positive outcomes for the company. Talking about more evident effects, we have realized how important it is to have the chance to count on our own means (for instance, the cranes that we subcontracted to local firms) for an increased flexibility and adaptability which only an internal team, can provide pushing us to a deep renovation of our number of machines in use.

2016

Project "Turnaround of Kalundborg Equinor Refinery Plants (Denmark)".

170 exchangers maintained in 5 weeks and "0 leakage on startup as a result. The torquing by hydraulic/torque wrenches and the ban to use sparkleor pneumatic wrenches were the reason of success. The experience pushed us to purchase new equipment and to certify our operators according to the regulation BS EN 1591. Another important starting point in the field of safety was the the Client requirement for workers to use a safety lanyard during the activities at height, to secure tools regardless of the work height the result was "**Zero Falling Object**" during the work.



2018

Project "Mechanic and Electric/Instrumental construction of BOP Plants for to the experimental Nuclear Fusion Plant ITER in Cadarache (France)".

This ongoing project, has put us through the tough challenge to manage procedures and documents about an experimental nuclear plant. We had then to rearrange on site staff tasks, raising its level. The high technological standards required by the Client pushed us to purchase more and more flexible suitable and safer machinery, for works enclosed environment. We also had to gear up with more accurate measuring equipment generally which largely benefiting from the ITER project, dealing with foreign countries for the first time in a such complex and technologically advanced environment.

2018

Project "Turnaround of Gunvor Refinery Plants in Rotterdam (Netherlands)".

The project allowed us to consolidate our experience in the use of hydraulic/pneumatic wrenches for all types of torquing. All our staff in charge of this activity was duly trained according the regulation BS EN 1591, by internal training including practical tests and final exams. Was another important experience: for 6 months the "Turnaround preparation": a team of three people worked for 6 months at the Turnaround preparation together with the refinery local team the software ROSER, which we normally used to validate the Client's data (performances expected, scaffoldings, spare parts, etc....) in the offer phase.



2019

Project "Normandy Refinery Plants Shutdown - France"

This ongoing project is helping consolidate our experience in TURNAROUND preparation, in terms of integration with the Client's team and usage of specific systems also in this case, a team has permanently been on site for 9 months integrating with the Refinery staff in order to carry on this delicate and decisive phase of the TAR.

2020

Project "Plants Shutdown Zeeland Refinery - Holland"

This project, managed in English language, helped consolidate our experience in TURNAROUND preparation, in terms of integration with the Client's team and usage of specific systems. Also in this case, a team worked for 12 months in Refinery, totally integrated with the Client's staff in order to carry on this delicate and decisive phase of the TAR. In addition, the TAR, carried out in the months of June and July 2020, took place in the midst of the Covid-19 pandemic. Compliance with stringent anti-Covid protocols allowed, also and above all thanks to a close collaboration between Refineries and Companies, to carry out the work in compliance with safety, timing and budget. A great result, achieved by very deep preparation and a stringent proactive controls.

Concerning the new refinery processes of TAR we used:

- the **ROSER** software in the preparation phase for the validation action times
- **Weld-it** software for welding activity during work preparation and performance
- **Blind-it** software for the management of blinding activity during the degassing/restarting phase of the battery limits and for equipment blinding.

2021

Project "TURNAROUND preparation Total Feyzin - France".

This project is the peak of all TAR preparation experiences performed so far. It is in fact, our "integrated" type preparation with Total. In the two months initial phase we will plan with the Client how to proceed with the preparation to be completed with the TAR works. A particular points-based pricelist (similar to standard man-hours) will be used to provide a quotation of the entire work to carry out.

In the **last 5 years we have invested about 4,5 M€** to "innovate" our Company. These investments have resulted in:

Purchase of new equipment, in particular:

A 180 and 230 tons cranes

They have completed our crane fleet, counting already over 18 cranes of different sizes. The new cranes, despite their dimensions are easily transportable (in fact they autonomously move on the road) and remote-controlled (so the crane operator can control the whole lifting area improving safety significantly. Add to this the huge advantage of using our own cranes, driven by our trained, trustworthy, flexible operators. All will improve the service offered safety and quality;

75, 90 and 120 tons cranes

Four new remote-controlled machines (much safer and more powerful);

Four electric 6, 9 and 10 tons cranes

Totally remote-controlled (no man on board).

These machines have increased the amount of our cranes. Moreover even difficult liftings in closed and very narrow spaces are now possible using nimbler equipment than that with an endothermic engine;





■ **20 Hydraulic torque wrenches**

These hydraulic wrenches in different sizes are of the bush and nut pass through type with square drive control unit for clamping with four wrenches at the same time.

■ **20 Battery-operated electric torque wrenches**

Of the gun type, these wrenches will be used as an alternative to pneumatic wrenches for torque-controlled reassembly of flanged joints in general and for the maintenance of air-coolers with plugged heads; these tools will also allow a reduction in noise pollution as well as a significant decrease in the daily exposure of workers to the risk of hand-arm vibrations.

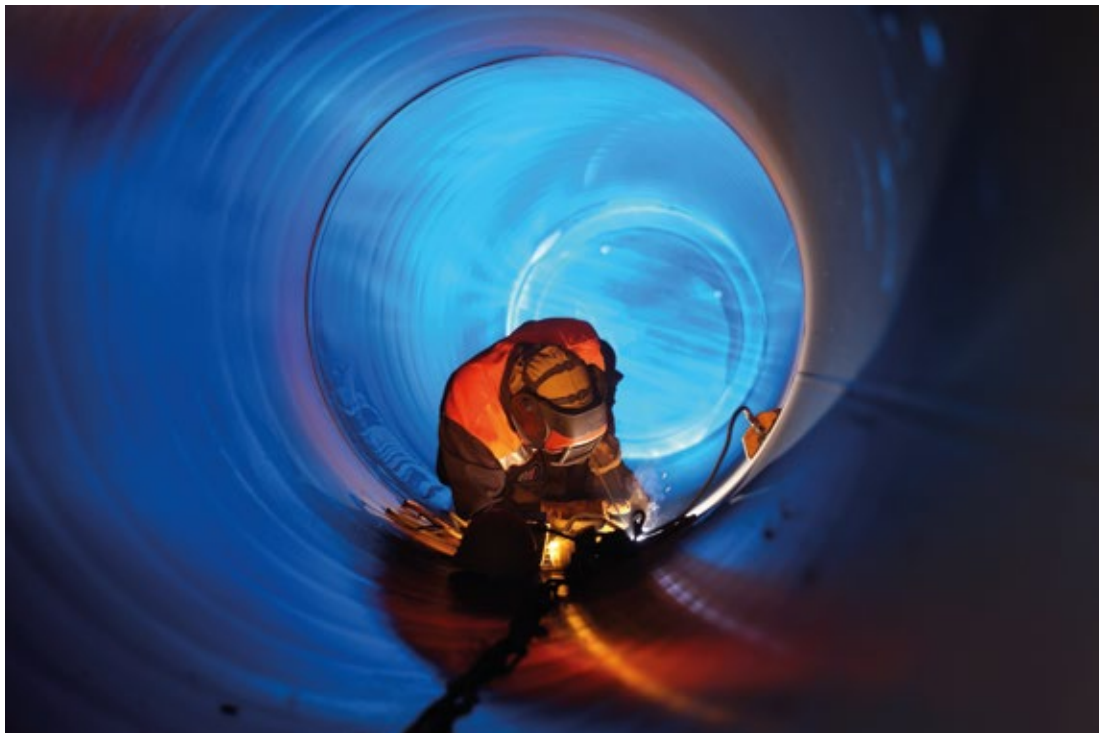
■ **CERTIFICATONS**

All our mechanical staff is certified according to the certification BS EN 1591-4 (bolt tensioning). One of our engineers who achieved the certification according to BS EN 1591, has become the bolt tensioning manager, training all our staff dealing with bolt tensioning, according to the regulation.

Regarding piping activities, given their level of criticality during the turnaround, a series of investment have been made, in order to reduce the working time and to increase the quality standards:

- Implementation of welding systems by purchasing 03 state-of-art autonomous units of orbital welding, produced in the USA, characterized by a low footprint on the circumference of use; such tools, with application field from 8", will be used to sensibly decrease the welding times and to reduce the risk of repair on the welded joints.
- Purchase of hydraulic couplers to improve coupling on the joints to weld.
- Purchase of hydraulic flange spreaders to reduce opening times and avoid damaging on the flanges.
- Purchase of increasingly high-performing hydraulic nut splitters and a new type of air saws, reducing response timelines and explosion risks associated with traditional systems.

We are convinced that the survival of a company in such a 'liquid' and ever-changing market, strongly depends on its ability to innovate and renovate again and again. We are so this with enthusiasm and dedication and the results confirm that we are on the right track.





1921-2022
CENT'ANNI DI
STORIE, DI LAVORO
E DI UOMINI

ONE HUNDRED YEARS OF
HISTORY, WORK AND MEN



CESTAROROSSI

CONSTRUCTION AND MAINTENANCE IN INDUSTRIAL PLANTS SINCE 1921 - ITALY

MAIN WORKS PERFORMED



The dynamic managerial and operational adjustment now makes the Group increasingly well-rounded and competitive in industrial plant construction and maintenance.



MAIN WORKS PERFORMED

YEAR	CLIENT	DESCRIPTION
2024 ongoing	TotalEnergies Refinery of Antwerpen (Belgium)	Contract for the integrated preparation and execution of the TAR 2025 "Extention V" in Totalenergies Refinery of Antwerpen (Belgium). € 9.000.000,00
2024 ongoing	ENI Green-Refinery of Venice	Temporary grouping of companies between CESTARO ROSSI & C. SpA and Power Project Consulting Srl for EPC contract for the construction of the new Interconnecting Plant in ENI Green Refinery of Venice. € 34.000.000,00
2024 ongoing	ENI Refinery in Livorno	Temporary grouping of companies between CESTARO ROSSI & C. SpA and Power Project Consulting Srl for EPC contract for the construction of a new PTU plant at the ENI refinery in Livorno. € 125.000.000,00
2024	Euroapi Pharmaceutical Plant in Brindisi site	Various contracts for the construction/revamping of the plant's mechanical and electrical-instrumental systems in Euroapi Pharmaceutical Plant in Brindisi site. € 350.000,00
2024 ongoing	New plant construction works at Eni Green Data Center in Sannazzaro	Mechanical, electrical and instrumentation works. Contract value approximately €15,000,000. Contract value approximately € 5,000,000.00 for Ele/I&C works - Euro 5.000.000 Ele/I&C
2022 2023	Baker Hughes Avenza	Modularization of 6 skids related to filter chamber, chiller, air duct, ventilation system, additional equipment. Mechanical and electro-instrumental activities included. Euro 3.500.000,00
2022 2023	Refinery ENI in Livorno	Construction of the "Mahler" hydrogen production plant Euro 1.600.000,00
2023	TOTALENERGIES - Refinery of Antwerp - TERA (Belgium)	Contract for the integrated preparation and execution of the next TAR 2023 € 4.000.000,00
2023 ongoing	PRIOLO SERVIZI Priolo Gargallo	Long Term Contract for Plant's multidisciplinary piping maintenance works Euro/year 400.000,00
2022	Kalundborg Refinery Denmark Oli Refinery in Kalundborg	Turn Around Euro 2.000.000,00
2022 ongoing	EuroApi Pharmaceutical Plant in Brindisi (ex Sanofi):	Long Term Contract for Mechanical, Electrical and I&C Erection and Maintenance works Euro/Year 2.000.000,00
2022 ongoing	ENI Versalis Plant in Priolo (Siracusa)	Long Term Contract for Mechanical Erection and Maintenance works Euro/Year 3.000.000,00
2021	YILPORT San Cataldo Container Terminal S.p.A. Taranto	Electrical installations for the replacement of electrical distribution panels, lighting system and power sockets for 9 power supply towers of the refrigerated containers in the Taranto multi-sector pier Euro 520.000,00
2021 ongoing	ENI Venezia Green-Refinery	EPC Contract, in Temporary Consortium with PPC S.r.l., for the Engineering, Procurement and Construction of the new Degumming Unit Euro 31.500.000,00
2021 ongoing	ENI Eni Livorno Refinery	Long Term Contract for Electrical and I&C Erection and Maintenance works Euro/Year 3.000.000,00
2021 ongoing	SOGIN Caorso (Piacenza)	Maintenance work on electrical distribution and lighting systems in Caorso Plant. Euro 1.500.000,00



MAIN WORKS PERFORMED

YEAR	CLIENT	DESCRIPTION
2021	ENI - Livorno Refinery	TAR 2021 - Mechanical Maintenance - EURO 3.500.000,00
2021 2022	TOTAL Petrochemical Plant of Antwerp-TOA (Belgium)	Contract for the integrated preparation and execution of the next TAR 2022 Euro 4.200.000,00
2021	EXXON Trecate Refinery (Novara)	FCC Block-TAR 2021 - Mechanical Maintenance Euro 3.200.000,00
2021 ongoing	ENI Sannazzaro Refinery (Pavia)	Long Term Contract for Mechanical Erection and Maintenance works Euro 5.000.000,00
2021 2022	TOTAL Refinery of Feyzin (France)	Contract for the integrated preparation of the related TAR 2022 - Aros Euro 3.600.000,00
2020 ongoing	ENI Sannazzaro Refinery (Pavia)	Long Term Contract for Electrical/Instrumentation Erection and Maintenance works Euro/Year 5.000.000,00
2020	ISAB SUD (Lukoil) Oil Refinery	General Contractor for Turn Around of Refinery (Time Scheduling, General Management, mechanical, electrical, instrumentation, insulation, washing, etc.) Euro 14.000.000,00
2020 ongoing	ITER ORGANISATION Saint Paul-lez-Durance (Francia)	Temporary Consortium FINCANTIERI-SI/CESTARO ROSSI EPC contract for the construction of a temporary HVAC system for the TO-KAMAK building of the new nuclear fusion plant located in Saint Paul-lez-Durance (France) Euro 6.500.000,00
2020 ongoing	ITER ORGANISATION Saint Paul-lez-Durance (Francia)	Supply of raw material, piping and fitting for VVPSS system (under nuclear safety requirement). Location: Nuclear Fusion Power Plant in Saint Paul-lez-Durance (France) Euro 348.000,00
2020 ongoing	ITER ORGANISATION Saint Paul-lez-Durance (Francia)	Contract for special class fasteners installation on DT/VST tank in DTR (works under nuclear safety requirement). Location: Nuclear Fusion Power Plant in Saint Paul-lez-Durance (France) Euro 398.000,00
2020 ongoing	ITER ORGANISATION Saint Paul-lez-Durance (Francia)	Contract for Heat Rejection system modification for future connection inside B13 pit. Location: Nuclear Fusion Power Plant in Saint Paul-lez-Durance (France) Euro 96.000,00
2020	TOTAL Zeeland Refinery (Holland)	TAR 2020 - Mechanical Maintenance - Plants Merox, Unifiner, Platforming, Gas Plant, Ammine, HDS, Sulphur. Euro 4.200.000,00
2020 ongoing	SOGIN Caorso (Piacenza)	Contract for restoration work of 6 kV power supply to the GN1A switchboard from external power lines by means of the TAG1 and TAG 2 Transformer at the Caorso Nuclear Power Station Euro € 600.000,00
2020	ENI Refinery of Taranto	TAR 20 Mechanical Works Units 100,200,300,1300,TSTC Euro 3.200.000,00
2020	IPLM Refinery of Busalla (Genova)	TAR 20 Mechanical Works Euro 1.000.000,00
2020	API - Refinery of Falconara (Ancona)	TAR 20 Mechanical Works - Euro 1.200.000,00
2020	ENI - Refinery of Livorno	Shut-Down 20 Mechanical Works - Euro 250.000,00



YEAR	CLIENT	DESCRIPTION
2019 2020	SANOFI AVENTIS Pharmaceutical Plant - Brindisi	Various mechanical works concerning modifies and implementations of the units Euro/Year 770.000,00
2019	TOTAL Normandy Refinery Le Havre (Francia)	TAR 2019 - Mechanical Maintenance Distillation Plant Euro 8.600.000,00
2019 2021	SAIPEM Refinery of Milazzo (Messina)	Supply, erection and commissioning services of electrical / I&C installations related to Extra-TAF new plant Euro 910.000,00
2019	RAM Refinery of Milazzo (Messina)	TAR 2019 - Electrical-Instrumental activities Euro 2.000.000,00
2019 ongoing	FINCANTIERI	Construction, erection and commissioning services of plant and equipment for the AC/DC converter of ITER Organisation related to the new Nuclear Fusion Power Plant in Saint Paul-lez-Durance (France)-Electrical/I&C works Euro 2.500.000,00
2019	SONATRACH Augusta Refinery (Siracusa)	Turn Around 2019 - Euro 4.100.000,00 Mechanical, Ele, I&C - Block 1-4-5 and Scanfiner - Euro 1.200.000,00
2019	DAWONSYS (Corea)	Construction, erection and commissioning services of plant and equipment for the AC/DC converter of ITER Organisation related to the new Nuclear Fusion Power Plant in Saint Paul-lez-Durance (France)-Electrical/I&C works Euro 2.500.000,00
2019	API Falconara Refinery (Ancona)	Turn Around 2019 - Mechanical Euro 770.000,00
2018	SANOFI AVENTIS Pharmaceutical Plant - Brindisi	Pharmaceutical Plant - Brindisi: Revamping Electrical Substation MV/LV during the general shutdown 2018 Euro 350.000,00
2018	GUNVOR Rotterdam Oil Refinery	Turn Around 2018 - Mechanical - All Plants Euro 2.500.000,00
2018	ENI Taranto Oil Refinery	Turn Around (Mechanical) Euro 3.500.000,00
2018	DEMONT ON ITER ORGANISATION'S SITE	Contract for the electrical and instrumentation construction of the Building 61 of the new Nuclear Fusion Power Plant in Saint Paul-lez-Durance (France) Euro 300.000,00
2018 2020	SONATRACH Augusta Refinery (Siracusa)	Long Term Contract for Electrical/Instrumentation Maintenance works Euro/Year 1.000.000,00
2018 ongoing	ITER ORGANISATION Saint Paul-lez-Durance (Francia)	Contract for the mechanical, electrical and instrumentation construction of the Balance of Plant 2 of the new Nuclear Fusion Power Plant in Saint Paul-lez-Durance (France) Euro 15.000.000,00
2018	API Falconara Refinery (Ancona)	Turn Around 2018 - Mechanical. Euro 430.000,00
2017 2020	ITER ORGANISATION Saint Paul-lez-Durance (Francia)	Contract for the mechanical, electrical and instrumentation construction of the Balance of Plant 1 of the new Nuclear Fusion Power Plant in Saint Paul-lez-Durance (France) Euro 5.000.000,00



MAIN WORKS PERFORMED

YEAR	CLIENT	DESCRIPTION
2017	ENI Taranto Oil Refinery	Turn Around (Mechanical + Ele/instr) Euro 7.500.000,00
2017 ongoing	EXXON Trecate Refinery (Novara)	Long Term Contract for Electrical/Instrumentation Maintenance works Euro/Year 3.000.000,00
2017 ongoing	RAM Milazzo - Oil Refinery (Messina)	Oil Refinery - Long Term Contract for Valves, Safety Valves and soot blowers Maintenance works Euro/Year 800.000,00
2017 2018	TOTAL Marseille Refinery (FRANCE)	Erection of new Pre-treatment Oil Unit at Marseille Refinery (FRANCE) including supply, prefabrication and erection of piping, fitting and steel structures. Mechanical erection of equipment, NDT, painting and insulation works. Euro 5.000.000,00
2017 2018	KINETICS TECHNOLOGY SPA MAIRE TECNIMONT GROUP Milazzo - Oil Refinery (Messina)	E&I works for the Erection of new Sulfur Plant unit at Milazzo Refinery Euro € 2.300.000,00
2016	ENI Livorno Oil Refinery	Turn Around Euro 4.200.000,00
2016 2018	MASOL GROUP Plant (Livorno)	Erection of new biodiesel production unit at Livorno Plant including supply, prefabrication and erection of piping, fitting and steel structures. Mechanical erection of equipment. NDT, painting and insulation works. Euro 6.100.000,00
2016	STATOIL Denmark Oil Refinery in Kalundborg	Turn Around Euro 2.300.000,00
2015	TAMOIL Switzerland Oil Refinery in Collombey	Turn Around / Final Cleaning Euro 5.500.000,00
2015	RAM MILAZZO - Oil Refinery (Messina)	Topping Turn Around Euro 2.000.000,00
2015	FOSTER WHEELER Refinery of Milazzo (Messina)	E&I works for the FCC Plant Revamping- Refinery of Milazzo Euro 2.700.000,00
2015	LUKOIL ISAB SUD Oil Refinery of Priolo (Siracusa)	General Contractor for Turn Around of Refinery (Time Scheduling, General Management, mechanical, electrical, instrumentation, insulation, washing, ecc.) Euro 18.000.000,00
2015 2018	SANOFI AVENTIS Pharmaceutical Plant - Brindisi	Long Term Contract for Mechanical Erection and Maintenance Euro/Year 1.000.000,00
2014 ongoing	Liberty Magona S.r.l. (ex Arcelor Mittal) Piombino - Steel Factory (Livorno)	Global Service Maintenance of the Plant Euro/Year 3.500.000,00
2014 ongoing	ENGIE (ex Gdf Suez) Rosignano - Power Plant (Livorno)	Long Term Contract for Mechanical and Electrical/Instrumentation Maintenance works Euro/Year 1.500.000,00
2014	TOTAL - Paris Grandpuits Refinery (France)	Mechanical Maintenance Distillation Plant Euro 3.200.000,00



YEAR	CLIENT	DESCRIPTION
2014 2016	ENAV S.p.A. Roma	Electrical Works for new MV Substation inside Ciampino Airport, included designing, supply and installation works Euro 2.100.000,00
2000 2017	ENI S.p.A. Oil Refinery - Taranto	Oil Refinery - Taranto: Long Term Contract for Electrical/Instrumentation Erection and Maintenance works Euro 1.500.000,00
2014	EXXON Augusta Refinery (Siracusa)	TAR 2014 - Mechanical Maintenance Euro 2.500.000,00
2014	EXXON Trecate Refinery (Novara)	TAR 2014 - Mechanical Maintenance Euro 5.050.000,00
2013 ongoing	RAM Milazzo Oil Refinery (Messina)	Long Term Contract for Electrical/Instrumentation Erection and Maintenance works Euro/Year 7.000.000,00
2013 2019	Total/ERG Oil Deposit (ex-Refinery) - Rome	Rome: Long Term Contract for Global Service Maintenance + Mechanical Tanks Maintenance Euro/Year 8.000.000,00
2012	MASMEC S.p.A. Bari	Electrical Works for new Masmec Factory Euro 700.000,00
2012	RAM Oil Refinery - Milazzo (Messina)	General Contractor for Turn Around of Refinery and Vacuum Revamping (Time Scheduling, General Management, mechanical, electrical, instrumentation, insulation, washing, scaffolding, painting works) Euro 3.900.000,00 (ELE/STRU Euro 650.000,00)
2012	OXOCHIMIE Marseille (France)	TAR 2012 - Mechanical Maintenance Euro 500.000,00
2011	ERG ISAB SUD Oil Refinery - Priolo (Siracusa)	General Contractor for Turn Around of Refinery (Time Scheduling, General Management, mechanical, electrical, instrumentation, ecc.) Euro 7.000.000,00 (ELE/STRU Euro 300.000,00)
2011	SANOFI AVENTIS S.p.A. Pharmaceutical Plant - Brindisi	Electrical and Instrumentation Works for new Spiramicina Plant inside Brindisi Pharmaceutical Plant. Euro 800.000,00
2011	API/IP Policoro (Matera)	Rebuilding of Petrol Station - Electrical, Civil, Mechanical and Instrumental activities in Policoro. Euro 300.000,00
2010 2013	ENIPOWER Italy	Design, Procurement and Installation of Photovoltaic Power Plant (more than 500 kW) - About 15 PV plants all around Italy - 1MWp each Euro 15.000.000,00
2007 2011	ALSTOM POWER Bari	Combined Cycle Power Plant 800MW - Mechanical erection, Electrical and I&C erection works - Modugno (Bari) Euro 30.000.000,00
2007 2011	SIIRTEC-NIGI S.p.A. Refinery ENI - Taranto	General Contractor for the Construction of new Sulphur Plant (civil works, scaffolding, NDT, mechanical erection, electrical and instr. erection) - Refinery ENI Taranto. Euro 14.000.000,00 (ELE/STRU circa Euro 1.200.000,00)



MAIN WORKS PERFORMED

YEAR	CLIENT	DESCRIPTION
2010 2011	FUTURE ENERGY S.p.A. Canosa (BAT)	Procurement and Installation of Photovoltaic Power Plant (more than 500 kW) – Canosa (BA) and Cerignola (FG) PV Plant – 1MWp each Euro 350.000,00
2011	CESTARO ROSSI & C. S.p.A. Bari	EPC Contractor for 1MWp Photovoltaic Power Plant Acquaviva delle Fonti (BA) Euro 2.800.000,00
2010 ongoing	ENI S.p.A. Oil Refinery - Taranto	Long Term Contract for Mechanical Erection and Maintenance of Tank Euro/Year 300.000,00
2010 2015	ENI S.p.A. Oil Refinery - Livorno	Long Term Contract for Electrical/Instr. Erection and Routine Maintenance works Euro/Year 1.500.000,00
2010 ongoing	SORGENIA S.p.A Power Plant - Modugno (Bari)	Long Term Contract for Mechanical and Electrical/Instrumentation Maintenance works Euro/Year 600.000,00
2009	TECHINT S.p.A - SUDPROGETTI S.p.A. Taranto ENI Refinery	Installation of new MV Substation inside Taranto ENI Refinery – Electrical Works. Euro 400.000,00.
2008 2010	SAIPEM S.p.A Taranto ENI Refinery	Complete Revamping of MV net inside Taranto ENI Refinery. Euro 1.800.000,00
2007 2009	SAIPEM S.p.A. Taranto ENI Refinery	Electrical and Instrumentation Works for new Plant Hydrocracking inside Taranto ENI Refinery Euro 1400.000,00
2004 2009	ENI S.p.A. Refining & Marketing ROME Puglia e Basilicata	Erection and rebuilding of Petrol Station – Electrical, Civil, Mechanical and Instrumental activities (Bari Airport, Bisceglie, Palagiano, Rivello, Manduria, Salandra, Taranto) Euro 5.500.000,00
2006 2009	ENI S.p.A. Taranto ENI Refinery	Long Term Contract for Mechanical Erection and Maintenance of Tank Euro/Year 300.000,00
2007 2009	UNLB Brindisi	Refurb. of electrical distribution system in the UNLB admini. areas and Design, Construction with installation electrical panels Euro 650.000,00
2000 2010	REGIONE PUGLIA	Maintenance (electrical, civil works and mechanical works) for irrigation plant (artesian wells)
1970 ongoing	ENI S.p.A. Taranto ENI Refinery	Long Term Contract for Mechanical, Electrical and I&C Erection and Routine Maintenance works Euro/Year 5.000.000,00
1985 ongoing	ENI S.p.A. Oil Refinery - Livorno	Long Term Contract for Mechanical Erection and Routine Maintenance works Euro/Year 2.000.000,00
1996 2013	TOTAL/ERG Oil Refinery - Rome	Long Term Contract for Mechanical Erection and Maintenance Euro/Year 4.000.000,00
1994 2006	ENI S.p.A. Oil Refinery - Sannazaro	TAR - Mechanical Erection and Maintenance Euro/Year 1.000.000,00



YEAR	CLIENT	DESCRIPTION
1980 2014	I.E.S. - MOL Group Oil Refinery - Mantua	Long Term Contract for Mechanical Erection and Maintenance
1999 2011	TAMOIL Oil Refinery - Cremona	Mechanical Erection and Maintenance
1998 ongoing	IPLOM S.p.A. Oil Refinery - Busalla (Genova)	Mechanical Erection and Maintenance
1995 ongoing	API Oil Refinery - Falconara (Ancona)	Long Term Contract for Mechanical Erection and Maintenance
1999 2011	EDISON S.p.A. Power Plant - Taranto	Long Term Contract for Mechanical Erection and Maintenance
2000 2009	ENTE IRRIGAZIONE Bari	Management, Maintenance and New Electrical Installation in the Control Center of Lamalunga -DAM of Locone
2005 2006	SNAM PROGETTI SUD Oil Refinery - Taranto	Mechanical Revamping of Packinox Plant
2005	SUDPROGETTI Oil Refinery - Venice	Mechanical Revamping of Visbreaking
2005 2006	SNAM PROGETTI SUD Oil Refinery - Taranto	Mechanical Revamping of RHU Plant
2005 2006	SNAM PROGETTI SUD S.p.A. ENI Oil Refinery	Erection of Electrical and Instrumental Plant - Packinox, RHU, Berth Area - ENI Oil Refinery
2004 2006	SNAM PROGETTI S.p.A. Oil Refinery - Taranto	Erection of Electrical and Instrumental New Experimental Plant (EST-CDP) within ENI Oil Refinery in Taranto
2004	ENI S.p.A Oil Refinery - Milazzo (Messina)	TAR - Mechanical Erection and Maintenance
2004	SIEMENS Power Plant of Monopoli (BA)	Mechanical and Electrical/Instrumentation Erection Works for the new Power Plant of Monopoli (BA) - 10MW Biomass
2002 2003	SNAM PROGETTI SUD S.p.A. Oil Refinery - Taranto	Mechanical Erection Plant within Taranto ENI Oil Refinery (CDU - TOPPING - GPL - MEROX)
2002 2003	SNAM PROGETTI SUD S.p.A. Oil Refinery - Taranto	Erection of Electrical and Instrumental New Plant within Taranto ENI Oil Refinery (CDU - TOPPING - GPL - MEROX)
2002	ENI S.p.A. Sannazaro Refinery (Pavia)	Mechanical Revamping of FCC-Vacuum Plant
2002 2003	AQP S.p.A.	Design, construction and installation of electric panels (MV - LV) and Electrical Plants Euro 650.000,00



YEAR	CLIENT	DESCRIPTION
2001 2003	FIRESTONE-BRIDGESTONE Bari	Electrical and I&C Works - revamping and maintenance works
2001	NAPHTACHIMIE Marseille (France)	Mechanical Maintenance of Refinery in Marseille Euro 500.000,00
2001	ENI S.p.A. Oil Refinery - Taranto	Mechanical works for construction of washing plant Ammine RHU
2001	ENI S.p.A. Oil Refinery - Taranto	Mechanical works for construction PIG traps

MAIN TURNAROUND WORKS



Our company boasts solid experience in extraordinary maintenance on major petrol and petrochemical plants both in Italy and abroad.



MAIN TURNAROUND WORKS

HOW TO HAVE A SUCCESSFUL TURNAROUND

Our Company has a great experience in the execution of Turnarounds, so we summarize here below our past experiences and the success factors and the problems that we face in Turnarounds.

SUCCESS FACTORS

1. Good preparation (Company / Client): a very good preparation phase, with the right timing, with the right team from Contractor and Client side, with the right experience on the field, is the fundamental key factor
2. Create a solid Contractor + Refinery team with a real win / win vision: honesty, open-mindedness, common objectives between Contractor and Refinery
3. Put in place a "Realistic planning": it is clear that shorter deadlines imply a significant reduction in costs, but no planning can be carried out without being feasible, realistic and safe ("real" safety cannot be separated by realistic milestones)
4. Preparation: do not focus only on Contractor. Preparation times with Contractors are always longer and that is a good thing in theory. But sometime during the preparation the Refineries are more and more "concentrated" on the Contractors and little on themselves, and their capacity in terms of men (number and experience), means and internal organization capable of respecting the often very challenging TAR objectives.

PROBLEMS... AVOID THE USUAL "BOTTLENECK" DURING TAR:

5. Work permits: Are there enough people from the Refinery to follow the permits in real time? Were they designed to be quick, clear and to avoid unnecessary bureaucracy?
6. Washing area: it is essential to have a suitable area considering the equipment to be washed, to correctly manage the washing area by avoiding the accumulation of parts to be washed and by allowing an effective entry / exit of arts to be washed
7. Inspections: The waiting times for inspections leads to huge delays. It is therefore essential to have the right number of inspectors.
8. Scaffolding: having the right number of teams involved in modifying scaffolding and well made scaffolding will produce considerable time saving and performance improvement
9. Unexpected work: How is it possible to have 1 or 2 years of preparation and then 40 to 50% of unexpected work during the shutdown phase?
10. "External" Refinery Supervisors without a complete knowledge of the site: often on the ground many Refinery Supervisors are "external" to the Refinery and so with very small knowledge of the Refinery, which doesn't help Contractors at all
11. Crane management: Crane management by Refinery with external companies can often be inefficient and cause considerable loss of time
12. Manage internal conflict (Refinery Operation / Refinery TAR team): Contractors are often between internal conflicts between Operation / TAR team of the Refinery, and therefore suffer tensions and delays due to these conflicts
13. Manage technological innovations (eg Phased Array: inspectors with the right experience): Technological progress is fundamental, but it is necessary to be certain of the real positive return from the use of these new technologies and from the preparation users of these new technologies. Often systems like email - Roser - Teams - Primavera etc. provide conflicting information or, above all, it is not clear which is the "master" source for the information
14. It is not possible to manage Companies without a Contract: if the mechanical Contractor is responsible for managing other contractors (such as lifting, scaffolding, insulation, painting), for this management to be "real" and effective it is necessary that between the contractor and these companies have a contractual relationship, otherwise only confusion and low efficiency will arise
15. Active Supervisors are needed and not just "Arbiters": some Refinery Supervisors are reduced to being simple "arbiters", ready to report errors / inefficiencies of the Contractor, while their fundamental purpose should be to facilitate the work and above all to prevent such errors from occurring. They should prevent rather than report the problem that has already occurred
16. Document management: before and during a TAR a huge amount of documentation is produced (technical specifications, statement of works etc.). Ineffective document management causes waste of time and, above all, could cause incorrect works/installations and therefore produce real dangers for people and systems. Some examples of incorrect document management are the circulation of documents with incorrect revisions, the total lack of specifications, work instructions communicated only verbally.
17. Warehouse management of the Customer's materials: the correct and effective management of materials (including for example bolts, gaskets, blinds, etc.) is essential for the success of a TAR. The unavailability of materials, often despite a long preparation phase for the TAR, can produce delays often difficult to recover. This management could be made more efficient by hand in all the materials to be installed over to the Contractor before TAR beginning, following a validation process by Refinery and Contractor.



MAIN TURNAROUND WORKS

2002 - 2023 MAIN TURNAROUND WORKS

CUSTOMER	YEAR	PLANT	H.EX/A.C	COLUMN	VESSEL	FURN/BOIL	OTHERS	DAYS	TOT MAN-HOURS	REMARKS
ENI (Taranto)	2002	ALL (THERMAL, CRACKER, CDU, RHU/HDC, EST)	80	2	30	2	X	30 DAYS	20.170	
	2003		120	4	40	2	X		22.300	
	2006		210	12	64	4	X		28.000	
	2009		175	6	51	2	X		27.000	
	2010		75	3	28	2	X		21.000	
	2011		42	6	18		X		23.500	
	2012		431	39	212	27	X	2x30 DAYS	49.814	
	2013		10	5	11	2	X	28+18	6.981	
	2014		39	8	8	2	X	29+19+12	29.904	
	2017		146	23	61	23	X	60 DAYS	129.000	Piping: 140 tons CS + 40 tons Alloy
	2018		133	9	15	11	X	30 DAYS	60.000	
2020	100, 200, 300, 1.300, TSTC	14	1	5	1	X	10 DAYS	8.000	3.6 tons CS - 0.2 tons P11	
IES (Mantova)	2002	ALL PROCESS AND OIL PLANTS	43	6	38	12	X	30 DAYS	9.071	
	2004		49	6	11	3	X		6.500	
	2006		45	11	25	5	X		17.109	
	2007		51	4	12	3	X		6.100	
	2008		61	6	24	3	X		6.900	
	2009		65	6	5	3	X		12.500	
	2010		73	11	23	6	X		15.000	
	2011		23	2	0	2	X		5.000	
	2012		50	7	35	5	X		11.000	
	2013		25	3	1		X		4.400	
	2014		102	22	52	5	X		7.700	
IPLM Busalla (Genova)	2002	ALL PROCESS AND OIL PLANTS	48	5	18	2	X	30 DAYS	9.071	
	2004		46	18	22		X		6.500	
	2005		31	3	13	4	X		17.109	
	2007		60	6	22	4	X		6.100	
	2009		67	11	28	6	X		6.900	
	2010		42	7	15	7	X		12.500	
	2011		45	7	15	7	X		15.000	
	2013		67	7	3	5	X		5.000	
	2015		67	10	28	7	X		11.000	
	2018		67	7	22	7	X		4.400	
	2020		79	10	33	10	X		7.700	
	59	11	22	4	X	40.000	Piping: 15 tons			



MAIN TURNAROUND WORKS

2002 - 2023 MAIN TURNAROUND WORKS

CUSTOMER	YEAR	PLANT	H.EX/A.C	COLUMN	VESSEL	FURN/BOIL	OTHERS	DAYS	TOT MAN-HOURS	REMARKS
TOTAL (Roma)	2002	ALL PROCESS AND OIL PLANTS	69	6	25	4	X	22 DAYS	6.800	
	2003		78	6	32	6	X		8.800	
	2005		62	4	31		X		5.900	
	2007		70	7	31		X		43.000	
	2010		91	10	68	9	X		52.000	
	2012		30	19	60	7	X		18.000	
LUKOIL ISAB (Siracusa)	2011	LOT 1	154	14	27	4	X	28 DAYS	70.000	
	2015	LOT 1	199	16	30	5	X	45 DAYS	120.000	Piping: 5" medium; 85 tons CS; 13.700" welded
	2020	LOT 1	192	14	44	5	X	70 DAYS	190.000	Piping: 8" medium; 67 tons PS; 206 tons CS; 13.700" welded
API Falconara (Ancona)	2002	ALL PROCESS AND OIL PLANTS	77					15 DAYS	20.170	
	2003		65						22.300	
	2004		33						28.000	
	2005		80						27.000	
	2006		184						21.000	
	2007		130						23.500	
	2008		134						23.700	
	2009		125						23.000	
	2010		130						23.500	
	2011		98						25	12.000
	2011	V. BREAKING					X	30	19.000	
	2013		73					15	7.700	
	2015	ALL PLANTS	171					38	20.239	
	2016	ALL PLANTS	43					13	6.076	
	2017	ALL PLANTS	87				X	18	11.400	
	2018	ALL PLANTS	75				X	16	9.500	
	2019	ALL PLANTS	92				X	19	12.950	
2020	ALL PLANTS	92				X	22	12.500		
2021	ALL PLANTS	61				X	38	9.200		
EXXON Trecate (Novara)	2003	FCC	135	25	80	6	X	30 DAYS	24.000	
	2008	FCC	135	25	80	6	X		24.000	
	2014	FCC	129	25	63	3	X	42 DAYS	86.000	
	2021	FCC + MEA	44	14	23	4	X	27 DAYS	35.000	Piping: 8.000 mhrs, 85 hot works, 15 tons prefab. 2.800", install. 1234"

MAIN TURNAROUND WORKS



2002 - 2023 MAIN TURNAROUND WORKS

CUSTOMER	YEAR	PLANT	H.EX/A.C	COLUMN	VESSEL	FURN/BOIL	OTHERS	DAYS	TOT MAN-HOURS	REMARKS
RAFF Milazzo (Siracusa)	2004	VAC, GASCON	122	14	44		X	30 DAYS	24.000	
	2006	VACUUM	58	2	20	2	X		12.000	
	2007	TOPPING	130	4	15		X		21.500	
	2008	VACUUM	58	2	20	2	X		12.000	
	2012	VACUM +HDS2	87	5	18	2	X		18.000	Piping: 130 tons + 130 tie-ins
	2015	TOPPING 3	57	3	4			24 DAYS	30.000	
	2016	TOPPING4 VACUUM DEA2	90	4	20	1	X	45 DAYS	50.100	
TAMOIL	2004	CDU, ISO, DEWAX	100	15	27	3	X	30 DAYS	15.000	
	2009	CDU, ISO, DEWAX	136	23	38	6	X		20.000	
ENI Marghera (VE)	2005	V. BREAKING	44	7	19	2	X	30 DAYS	17.500	
ENI Sannazzaro (PV)	2002	FCC, VACUUM	149	16	60	1	X	30 DAYS	24.000	
	2006	FCC, VACUUM	149	16	60	1	X		24.000	
ENI (Livorno)	2002	ALL PROCESS AND OIL PLANTS	78	10	33	6	X	30 DAYS	12.500	
	2003		84	12	37	5	X		14.000	
	2004		85	15	39	7	X		17.000	
	2005		78	14	41	8	X	60 DAYS	38.600	
	2006	Shut-down								
	2007	ALL PLANTS	126	18	78	5	X	23	88.000	Piping: 51 tons CS
ESSO Augusta (Siracusa)	2004	ALL PROCESS AND OIL PLANTS	111	38	42	11	X	30 DAYS	60.000	
SONATRACH Augusta (SR)	2019	R1 - R4 - R5 SNF - PSU	94			3	X	40 DAYS	74.500	Piping: 40tons CS + 35 tons P11 < 2" = 1009" > 2" = 5435"
TOTALENERGIES Grandpuits (Francia)	2014	TOPPING	54	7	12	6	X	40 DAYS	19.200	Piping: 490" 1/2" + 1.1/2" 1312" 2" + 36"



MAIN TURNAROUND WORKS

2002 - 2022 MAIN TURNAROUND WORKS										
CUSTOMER	YEAR	PLANT	H.EX/A.C	COLUMN	VESSEL	FURN/BOIL	OTHERS	DAYS	TOT MAN-HOURS	REMARKS
TAMOIL Collombey (Svizzera)	2015	FINAL CLEANING	321	50	143	X	30	40 DAYS	25.000	
STATOIL Kalundborg (Danimarca)	2016	HEAT EXCHANGERS ALL PLANT	170	X	X	X	X	40 DAYS	35.000	
GUNVOR Rotterdam (Olanda)	2018	CR1 CR2 GOP	50	10	16	11	101	24 DAYS	35.000	Piping: 1,5t of P9 6t of CS
TOTALENERGIES Le Havre (Francia)	2019	TOPPING D11	72	9	18	3	X	30 DAYS	45.860	Piping: 17 tons
ZEELAND Refinery (Olanda)	2016	Hydrobon, Platformer, DHT, Merox, Amine, Zolfo	99	12	36	20	X	60 DAYS	45.000	Piping: 15 tons
TEOA TOTAL OLEFIN Anversa (Belgio)	2022	COLD/HOT SECTION	86	7	33	13	258	30 DAYS	65.800	Piping: 223 chronos
TOTALENERGIES Feyzin (Francia)	2022	AROMATICI	45	11	25	1	6	45 DAYS	32.000	Piping: 13 tons
TERA TOTALENERGIES ANTWERP-BELGIUM	2023	NC3	47	7	20	0		55 DAYS	102.551	Piping: 7000" PRF + 1200" INST

For ENI Livorno, ENI Taranto and other Italian refineries reduced/short shut down are not included.



LETTER OF REFERENCE



Safety, sustainability and attention to each aspect of our work are a real company asset.

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Safety, sustainability, attention to every aspect of our work are far more than a law requirement to comply with every 3-5 years. They rather represent a real company asset guaranteeing quality, cost control, company reputation improvement and faster production with the resulting customer satisfaction. The references, the awards and acknowledgments achieved in years speak for themselves.





LETTER OF REFERENCE





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CONSTRUCTION AND MAINTENANCE IN INDUSTRIAL PLANTS SINCE 1921 · ITALY



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