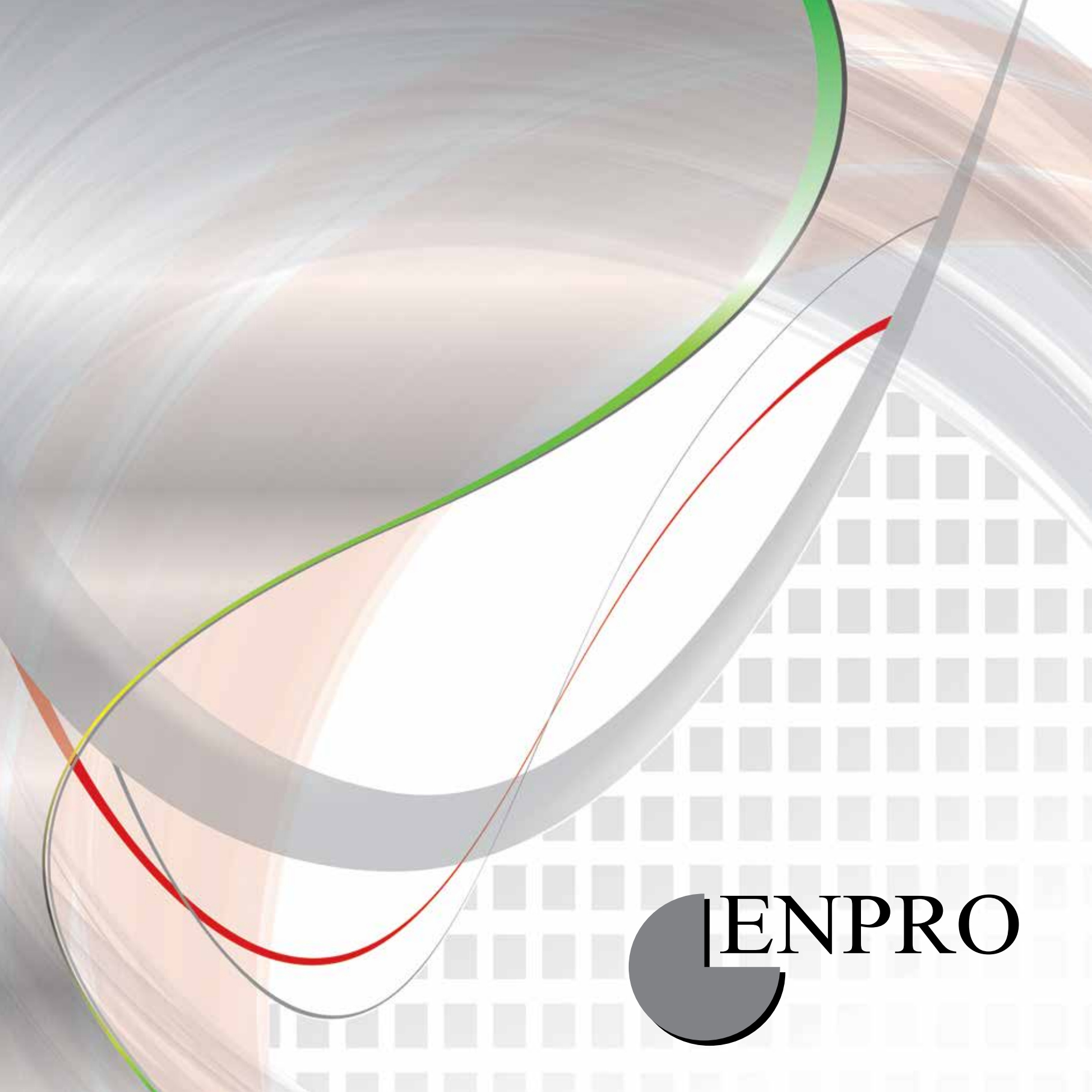

ENPRO

WELCOME TO ENPRO

Efficiency of power plants and saving energy all over the World gets more and more important everyday. Investments for Combined Cycle, Renewable and Hybrid Plants increase day by day in order to achieve faster start ups, higher efficiency and availabilities.
With ongoing or completed projects in over 12 countries in the World, ENPRO successfully implemented flexible design, manufacturing and site erection works to meet Customers' specific requirement with the most economical solution and in the shortest possible time. Such approach makes ENPRO a desirable choice for clients in "Power Generation" Industry.

Besides Engineering, Consulting, Manufacturing, Supply and contracting projects, ENPRO also acts as EPC contractor on Turnkey basis.
From Conceptual Design to detail Engineering, Procurement, Manufacturing, Imports, Exports and Logistics, Site Erection works and Commissioning are also in the scope of EPC.

Deep experience and knowledge in Power Generation Industry was the base for ENPRO establishment in 2003. ENPRO successfully completed more than 80 different size and scope contracts for Power Plants in12 countries in the World.

ENPRO Plaza Kader Sok. No: 34 06700 GOP Ankara TURKEY
Phone: +90 312 428 66 99 Fax: +90 312 428 66 29 enpro@enpro.com.tr

www.enpro.com.tr

ENPRO

EPC

ENGINEERING PROCUREMENT CONSTRUCTION

There is an increasing awareness all over the World to save energy. High efficiency Combined Cycle and Renewable Power Plant investments increases day by day in order to meet power demand all over the world.

ENPRO utilizes flexible design to meet Customers' specific requirement. Flexible design with reliable manufacturing and site implementation works when offered with competitive prices makes ENPRO a desirable choice for Clients in Power industry.

OUR VISION

Contribute to find fast, economical and environmental solutions to the World's Power need.

OUR VALUES

We never forget to preserve the balance of nature in the Projects for the World's growing Power needs.

We keep this principal in the foreground in the field of our activities like Cogeneration Power Plants and Renewable Energy.

We always support the team work and we know that nothing can be done alone. We solve all the details of the Projects with our experienced engineers and technical team.

We are trying to improve our Team Members with trainings to protect our place and to be always one step ahead in the changing World.

Health & Safety is our most important issue for the site works. Personal Protective Equipment and trainings are improving the Team Members' Health & Safety.

Our Engineering Department is working with ASME, EN, DIN, GOST standards, also offers optimal solutions based on the Customer's requirements and in compliance with the country's legal and regulatory conditions.

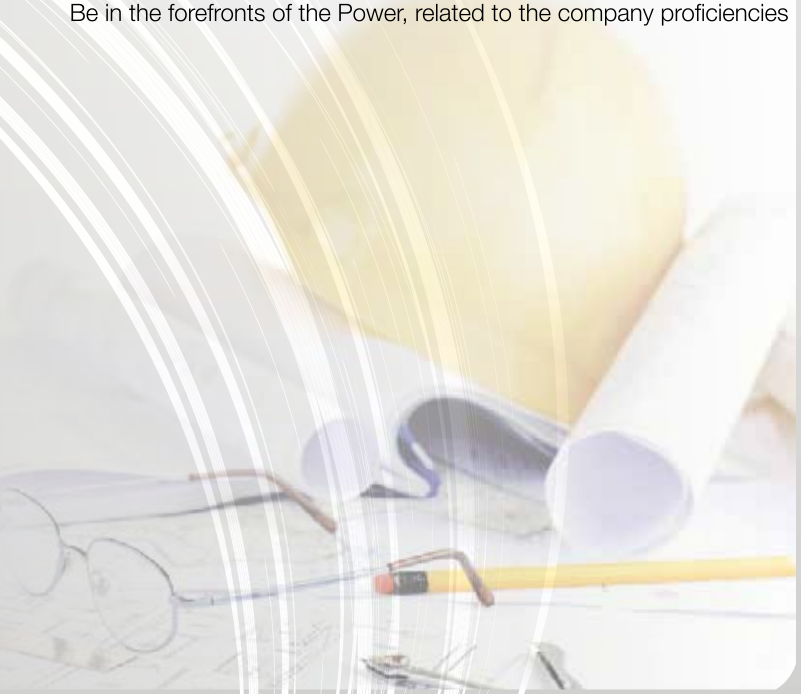
Our goal is customer satisfaction with work demands at the highest level, quality and at any time by responding, to ensure continuous development and renewal in our Company. ENPRO is at your side in your new Projects with the experience, confidence and ENPRO Team.

OUR MISSION

Offer solutions by applying the latest engineering and technological developments to the changing World's Power need.

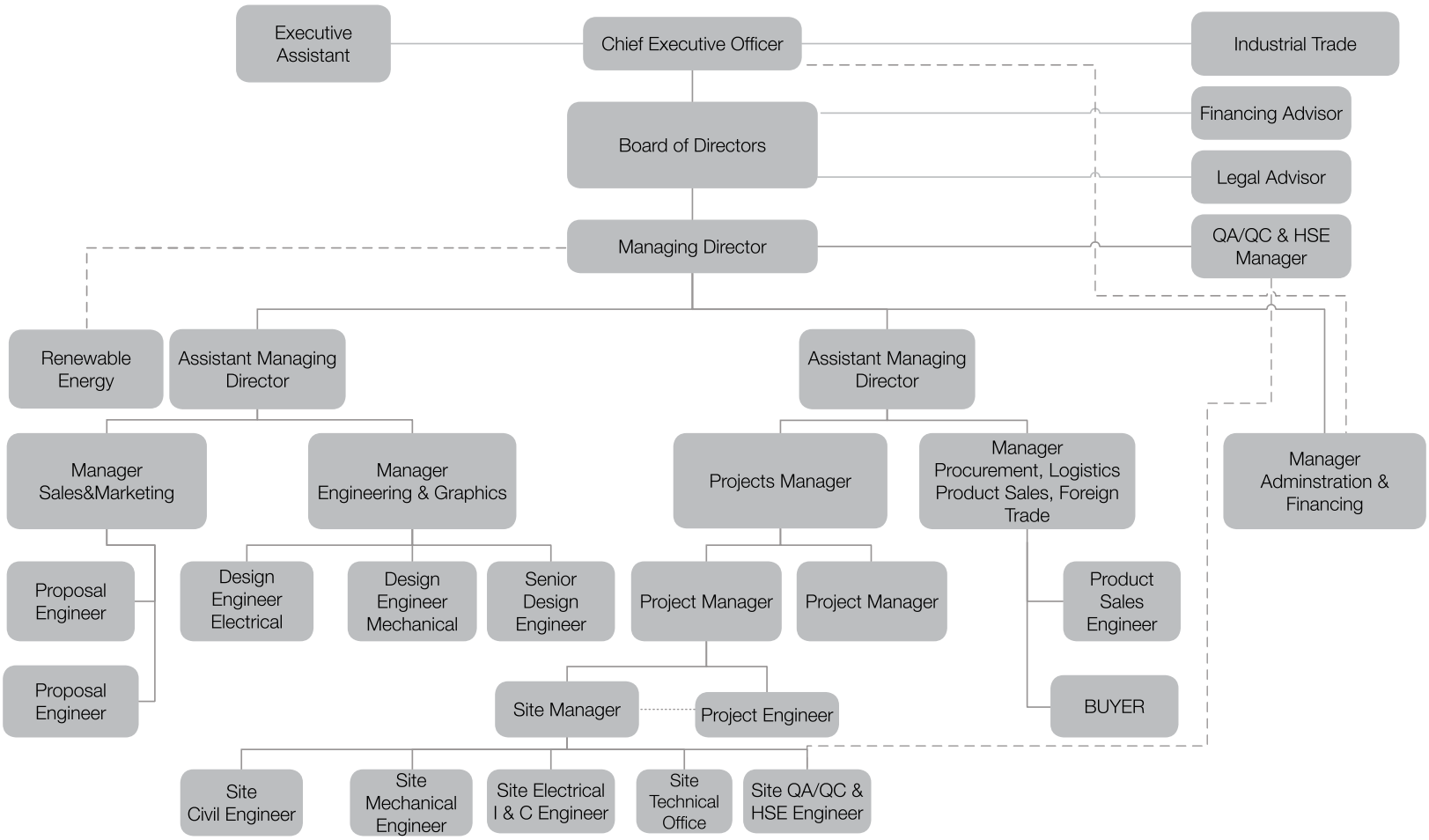
Always keep the Quality & Customer Satisfaction in the forefront.

Be in the forefronts of the Power, related to the company proficiencies



ENPRO

ORGANIZATION CHART



LRQA
Business Assurance

CERTIFICATE OF APPROVAL

This is to certify that the Environmental Management System of:

ENPRO MÜHENDİSLİK MÜŞAVİRLİK TAAHHÜT VE
DIŞ TİCARET A.Ş.
Enpro Plaza Kat: 3 Kader Sokak No: 34 Gaziosmanpaşa
ANKARA - TURKEY

has been approved by Lloyd's Register Quality Assurance
to the following Environmental Management System Standard:

ISO 14001: 2004

The Environmental Management System is applicable to:

Engineering, Consultancy, Site Erection, Contracting and
Foreign Trade Services Related with Industrial and Power
Plants Investments.

LRQA
Business Assurance

CERTIFICATE OF APPROVAL

This is to certify that the Occupational Health & Safety Management System
of:

ENPRO MÜHENDİSLİK MÜŞAVİRLİK TAAHHÜT VE
DIŞ TİCARET A.Ş.
Enpro Plaza Kat: 3 Kader Sokak No: 34 Gaziosmanpaşa
ANKARA - TURKEY

has been approved by Lloyd's Register Quality Assurance
to the following specification:

OHSAS 18001:2007

The Occupational Health & Safety Management System is applicable to:

Engineering, Consultancy, Site Erection, Contracting and
Foreign Trade Services Related with Industrial and Power
Plants Investments.

Issued by: Lloyd's Register Gözetim Ltd Sti. for and on
behalf Of Lloyd's Register Quality Assurance Limited

OUR HEALTH, SAFETY & ENVIRNOMENTAL POLICY

Our first target is to prevent people from being harmed in work by taking right precautions and providing a satisfactory working environment.

PPE is important to get required precautions.

Right PPE will protect the people on time

We maintain our HSE system in line with ISO 14001 & OHSAS 18001

SAFETY FIRST !

OUR QUALITY POLICY

To maintain customer satisfaction and confidence with our high level service for their requirements and expectations in their projects all over the world,

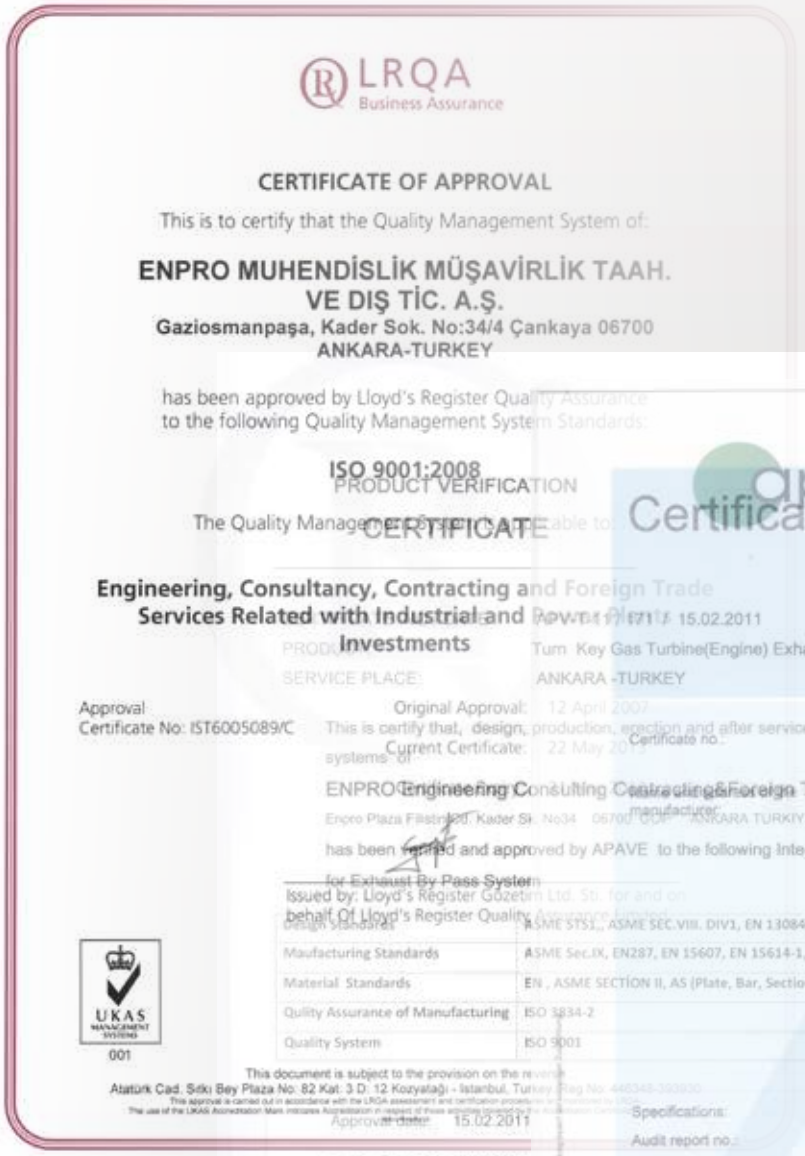
To maintain our quality system in line with

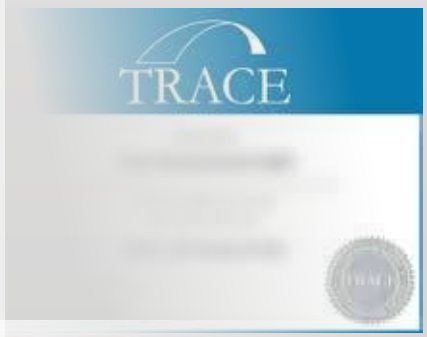
ISO 9001 :2008

Quality Management System and to improve continously,

To carry out company training and support programmes in order to improve our staff knowledge level and team working capabilities, keeping in mind that our success is a result of our staff knowledge, experience, self - sacrifice, team work and continuous improvement,

To cooperate only with those ethical and quality venders and to maintain the best relations





Design to Implementation

ENPRO

EPC SOLUTIONS FOR **EN**ERGY **PRO**JECTS

EPC

-Due Diligence,

-Feasibility Study,

-EPC Tender Preparations,

-Owner's Engineering,

-Lender's Engineering,

-EPCM Services,

-Conceptual Design,

-Basic Design,

-Detail Engineering,

-Procurement & Logistics, Foreign Trade,

-Project Management,

-Site Construction Works,

-Commissioning Services,

-Power Plant Relocations,

ENGINEERING & PROJECT MANAGEMENT

ENPRO PROVIDES FOLLOWING SERVICES FOR POWER PROJECTS

Engineering:

-Feasibility Studies,
-Owner's Engineering,
-Lender's Engineering,
-Conceptual Design,
-Basic Design,
-Plant Basic Engineering, Layouts, General Arrangement Drawings,
-Process Engineering,
-Pressure and Non-Pressure part Detailed Engineering and Manufacturing drawings,
-Building Steel Structure Design and detailed Manufacturing Drawings,
-Piping and Pipe Stress Analysis, Supporting and pipe rack design,
-Purchase Specifications, Technical Evaluations and reports
-Preparation of Bill Of Quantities

Project Management / Consulting:

-Project Planning
-Procurement, Vender assignments,
-Vender Acceptance Tests,
-Shop & Site QA / QC,
-Transportation
-Site Erection Works, Subcontractor Assignments,
-Reliability Run & Performance Tests,
-Take Over
-Customer (End User) Training Organizations

ENPRO PROVIDES FOLLOWING EQUIPMENT FOR POWER PROJECTS :

- Gas Turbines,
- Gas Engines,
- GT Exhaust Systems,
- By Pass Stack Systems,
- Heat Recovery Steam Generators,
- HRSG Main Stacks and Supporting Steel Structure,
- Steam Turbines,
- Condensers (Air Cooled/Water Cooled),
- Cooling Towers,
- HP/IP/LP Feed Water Pumps,
- Condensate Pumps,
- Fuel Oil Forwarding/Unloading Pumps,
- Diesel/Electrical/Jockey Fire Pumps,
- Field Storage Tanks(Fuel, Demi Water, Raw Water, Fire Water),
- Pipes & Fittings,
- HVAC Systems,
- Compressed Air Systems,
- Fire Detection and Fire Fighting Systems,
- Air Compressors,
- Auxiliary Boilers,
- Deaerator,

CUSTOM DESIGNED SOLUTIONS THAT MEET CLIENT'S NEED IN POWER INVESTMENTS

EXPORT AND TRANSPORTATION TO ALL OVER THE WORLD

TURNKEY OR SITE DELIVERY OF POWER PLANT EQUIPMENT

FOREIGN TRADE PROCUREMENT & LOGISTICS

- Emergency Diesel Generators,
- Black Start Diesel Generators,
- GT Inlet Air Cooling Systems,
- Heat Exchangers (Shell&Tube or Plate Type),
- Overhead Cranes,
- Water Treatment Plants,
- Step up Transformers,
- MV/LV Step Down Transformers,
- Bus Ducts,
- Circuit Breakers,
- Switch Gears,
- Motor Control Centers(MCC),
- UPS, Power and Control Cables,
- Cable Trays,
- Instruments,
- GT Air Intake Chilling Systems,
- GT Air Intake Fogging Sistems,
- NOX and CO_2 removal systems,
- SO_2 removal systems,

ENPRO

Design to Implementation

ENPRO Construction is focused on turn key erection of Power Plants and other Industrial Projects including Civil, Mechanical, Electrical, I&C and Commissioning works.

- Site Civil Works,
- Equipment Erection(Gas Turbine, Heat Recovery Steam Generator, Steam Turbine and condenser)
- Structural Steel Manufacturing and Erection Works,
- Balance of Plant Equipment,
- Water, Steam and Process piping,
- Electrical and I&C Works,
- Commissioning and start-up Works,

CONSTRUCTION

ENPRO

CONSTRUCTION

ENPRO

Design to Implementation

CONSTRUCTION

ENPRO

CONSTRUCTION

3X GE LM 6000 GTG
150 MW SCPP LEBAP / TURKMENISTAN

ENPRO

Design to Implementation

CONSTRUCTION

704MW SCPP BOUFARIK / ALGERIA
3X GE-FRAME 9FA Exhaust Gas Stacks
8X Field Storage Tanks
Engineering, Supply and Construction

ENPRO

CONSTRUCTION

ENGINEERING TO PRODUCTION

ENPRO

PRODUCTS FOR **EN**ERGY **PRO**JECTS

PRODUCTS

- Gas Turbine Exhaust Gas System including Diffusers,
- Ductworks, Stacks, Silencers, Diverters, Expansion Joints,
- Supporting Steel Structure,
- Gas Turbine Air Intake Systems including Flitration and Inlet Air Cooling Systems,
- Feed Water Tanks with Supporting Steel Structure,
- HRSG Main Stacks and supporting Steel Structure,
- Platforms, walkways,
- Deaerator
- HP and LP Steam / Water Piping
- Spool Fabrication with Pipe Support, Hangers, Racks,
- Process and Utility Piping
- Blow Down Tanks, Flash Tanks
- Steam Turbine Building Steel Structure
- Field Water and Fuel Storage Tanks

GAS TURBINE EXHAUST BY PASS STACK SYSTEMS

•ENPRO is a world wide supplier of Gas Turbine Exhaust By Pass Stack Systems.
•Exhaust By Pass Stack Systems can be designed both externally and internally insulated.
•These systems can be designed for up to 650 Degrees Celsius exhaust gas temperature.

ENPRO PROVIDES

•Design, Engineering,
•Detail Design,
•Manufacturing,
•Transportation to Site,
•Site Supervision,
•Erection and Commissioning.

Each Gas Turbine Exhaust By Pass Stack System consists of;

•Diffuser,
•Diverter,
•Silencer,
•Stack Body,
•Non-metallic Expansion Joints,
•Supporting Structure with access platforms.

STACK DAMPERS FOR CYCLING OPERATIONS

ENPRO is supplying Stack Dampers to keep the HRSG hot during short shut down operations. Stack dampers are best used to decrease the total Hot and Warm Start up time when the shut down is not more than 12 hours.
Use of a stack damper is the most effective and inexpensive way to prevent cool air from flowing through an HRSG.

STACK DAMPERS;

- Used for Cycling Operations,
- Prevents cool air from flowing through the HRSG,
- Decreases total Hot and Warm Start up time,
- Can be both manually operated and automatically operated from DCS with electrical actuator,
- Tailor made design and manufacturing for each Plant,
- Installed at the HRSG outlet Stack,
- Designed for minimum pressure drop,
- Modular design for ease of shipment and installation,

STACK SILENCERS

ENPRO realizes the design, engineering and manufacturing of Stack Silencers.
Stack Silencers can reduce the Gas Turbine noise level down to 80dBA based on the Project requirements.
ENPRO experience covers Aeroderivative and Heavy Duty Gas Turbines up to “F” Class Machines.

PRODUCTS

FABRIC EXPANSION JOINTS

ENPRO Fabric Expansion Joints are being used in more than 10 Countries.
ENPRO is doing the engineering, design and manufacturing of Fabric Expansion Joints.

ENPRO is supplying Fabric Expansion Joints which is suitable up to 650 Degrees Celsius with internal insulation. The expansion joint fabric material must withstand the potential for stress caused by rapid temperature rise of Gas Turbine start ups. The expansion joints shall avoid wrapping, binding, cracking and gas leakage.

The expansion joints should handle both lateral and axial expansion and contractions. They are constructed with different designs according to the adjacent duct, whether it is internally or externally insulated. The flexible element is made up of different layers each with different characteristics to withstand various flow parameters.
These Expansion Joints can be used at the outlet Flange of the Gas Turbine, at the diverter and on the Exhaust Stack.
These expansion joints can be both square and round based on the requirement.

DIVERTERS

- Toogle or Pivot armed,
- Electrical or Hydraulic Actuated System,
- %100 Tightness with sealing air System,
- On/Off or Modulating Mode,
- Internally or externally insulated,

PRODUCTS

Field Storage Tank

Field Erected;
- Fuel Oil,
- Fire Water,
- Demineralised Water,
- Service Water,

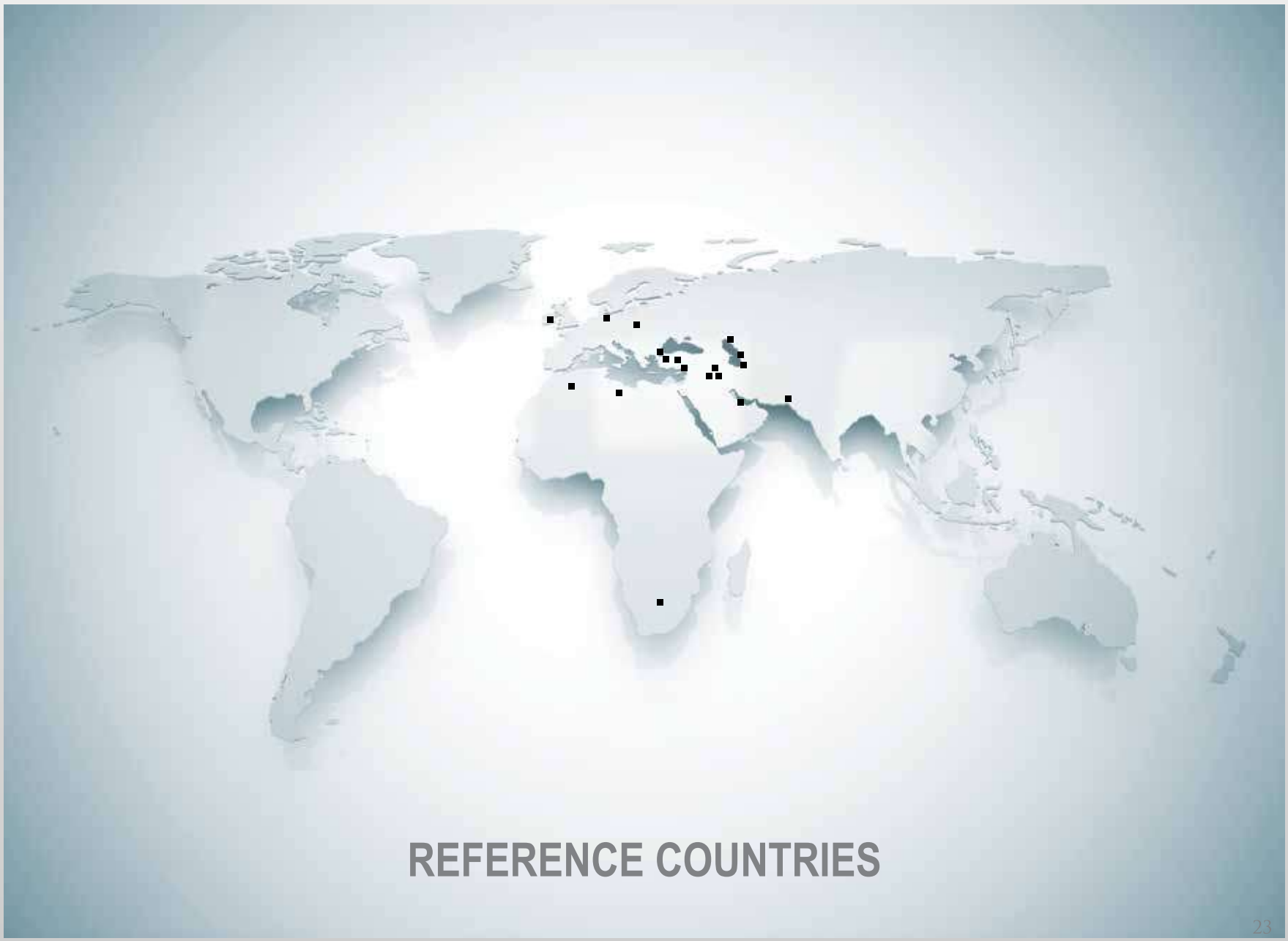
design, supply, manufacturing and field erection.

ENPRO

PROFESSIONAL APPROACH

ENPRO

IN POWER PROJECTS



REFERENCE COUNTRIES

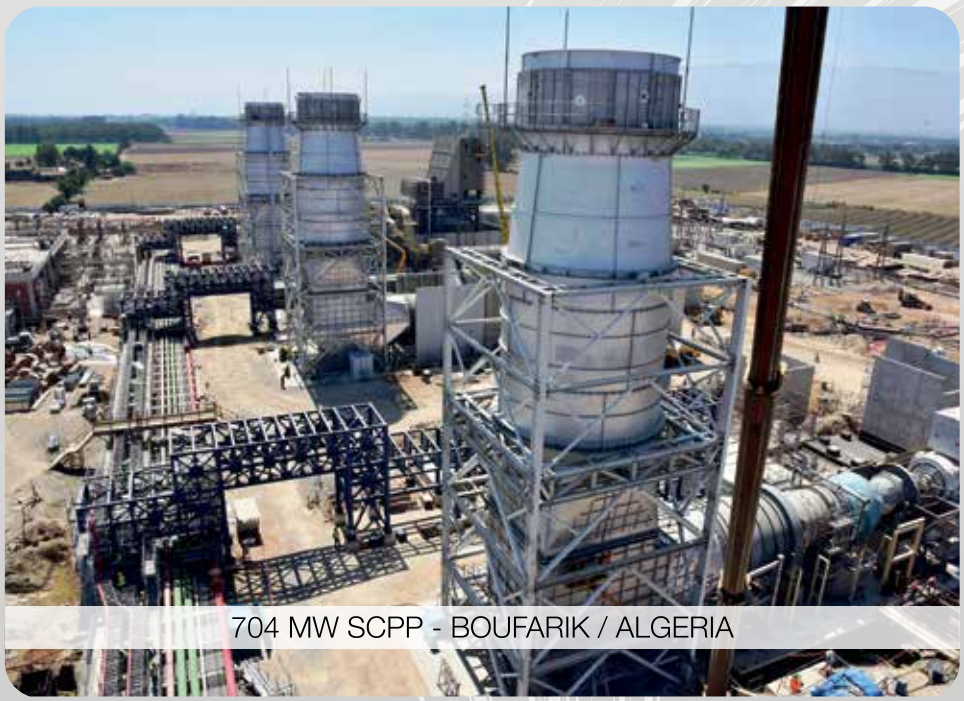
ENPRO

REFERENCES

180 MW CCPP - BURSA / TURKEY

150 MW SCPP - LEBAP / TURKMENISTAN

70 MW CCPP
BRAUNSCHWEIG / GERMANY

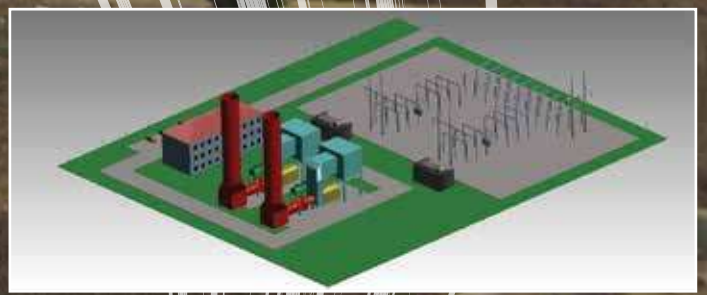


704 MW SCPP - BOUFARIK / ALGERIA

44 MW SCPP - SLOVAKIA

ENPRO

REFERENCES



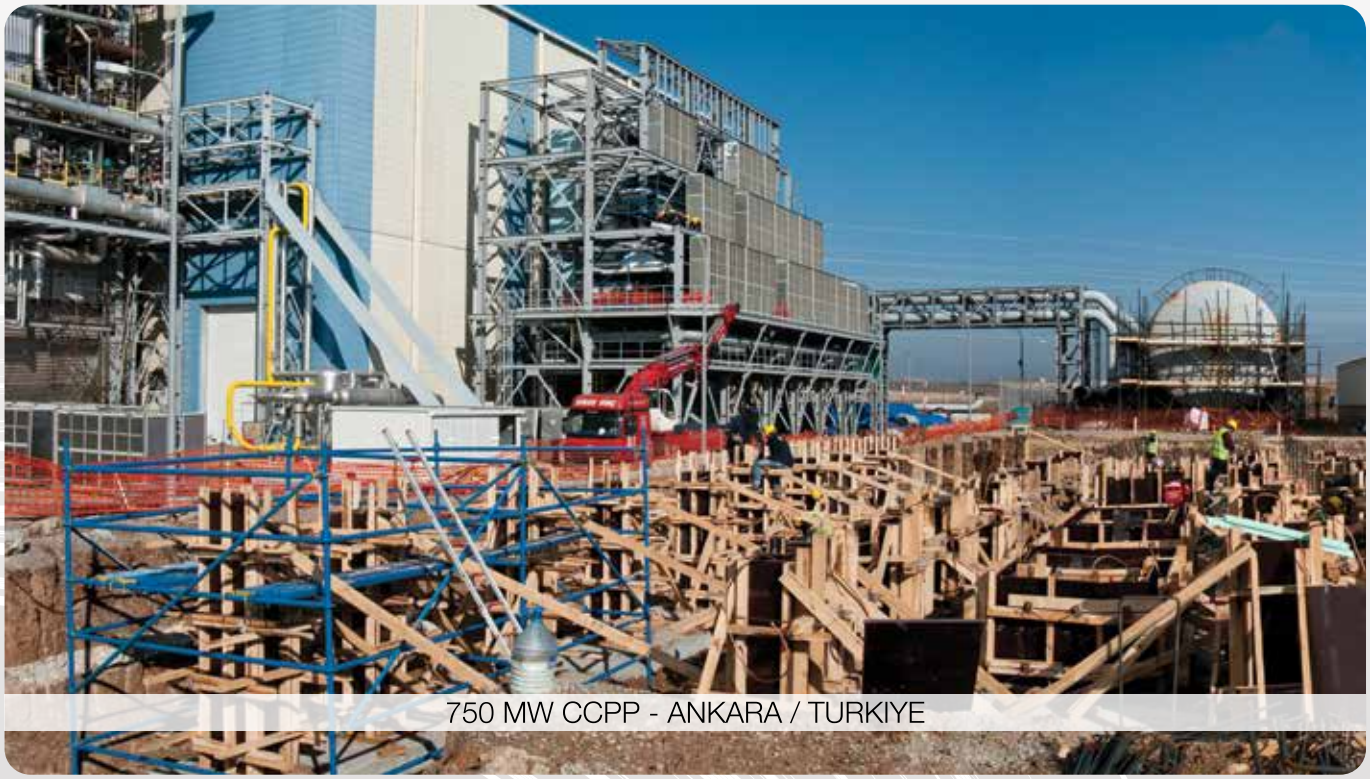
320 MW SCPP - DIBIS / IRAQ

Site Construction is not yet realized so similar plant photo is used

2x285 MW SCPP - LIBYA

2x70 MW SCPP - MARDIN / TURKEY

90 MW SCPP - ORAPA / BOTSWANA



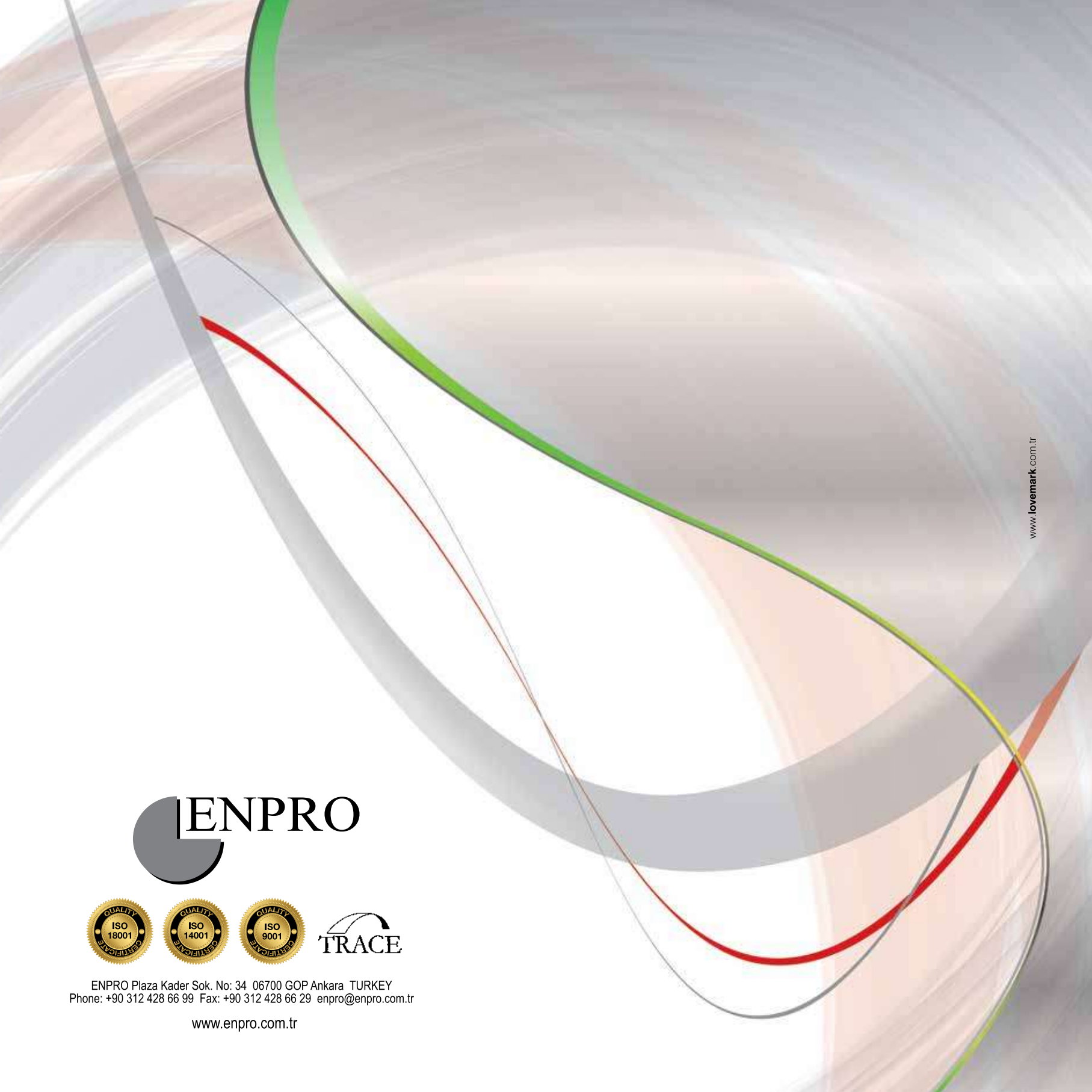
750 MW CCPP - ANKARA / TURKIYE

37 MW CCPP - IZMIT / TURKEY

38 MW CCPP - BURSA / TURKEY

2x42 MW SCPP - ATYRAU / KAZAKHSTAN

150 MW CCPP - KAYSERI / TURKEY



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