

COMMITTED TO COMPLETE.

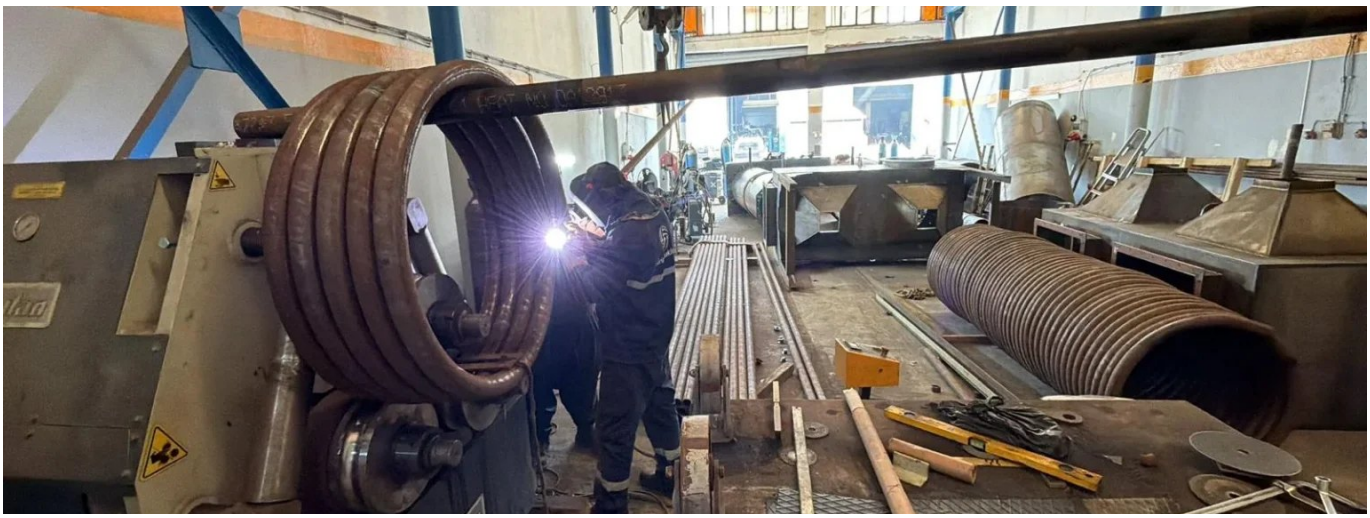
# Industrial Energy & Engineering

Engineering · Procurement · System Integration
Installation · Commissioning · Technical Service

ABOUT COMIT

# From engineering to completion.

COMIT Enerji ve Mekanik Sistemler San. Tic. Ltd. Şti. brings engineering, equipment procurement, system integration, installation coordination, commissioning and technical service together for industrial energy and mechanical applications.



Existing COMIT gallery archive - application context.

## Engineering & Technical Services

We define operating requirements and process conditions, support technical equipment selection and review system interfaces. Our approach starts with the actual application and the facility’s maintenance needs.

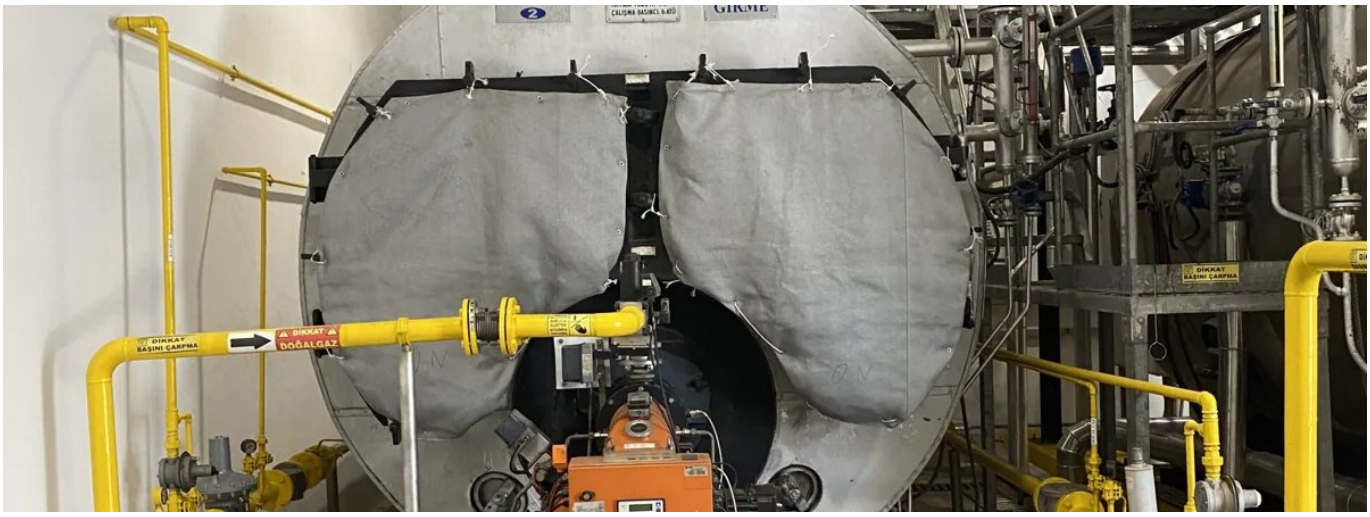
## A clearly defined scope

From a single equipment requirement to a coordinated system package, technical specifications, supply boundaries, responsibilities and documentation are defined for each project.

INDUSTRIAL ENERGY SYSTEMS

# Start with the process requirement.

Heat and steam demand is assessed alongside load profiles, utilities, site conditions and the control approach.




Existing COMIT gallery archive - application context.

## Five core boiler categories

Steam Boilers • Thermal Oil Boilers • Hot Water Boilers • Steam Generators • Electric Boilers

## The complete system

Boilers, burners, pumps, water treatment, safety and control equipment are considered as compatible system components.

BOILER SYSTEMS / 01

# Steam and thermal oil systems.

Equipment selection follows a clear definition of the process and operating conditions.

## Steam Boilers

Steam generation is assessed against process demand, operating pressure, load variation, feedwater quality, condensate return and auxiliary equipment scope. COMIT supports application focused selection and integration for duties such as food processing, textiles and process heating.

## Thermal Oil Boilers

Closed loop heat transfer fluid systems require a combined assessment of process temperature, fluid compatibility, circulation, expansion and control needs. Fluid selection and operating limits follow the verified documentation of the selected equipment.

## For a technical enquiry

Share the heat or steam duty, operating pressure and temperature, available fuel and utilities, operating schedule, existing system information and required delivery scope.

**STEAM**

Duty / pressure / load profile

**THERMAL OIL**

Temperature / fluid / circulation

**INTEGRATION**

Utilities / controls

BOILER SYSTEMS / 02

# Heat generation for the application.

Technology is evaluated together with site infrastructure and process conditions.

## Hot Water Boilers

Heating and process hot water duties are reviewed against heat demand, flow and return temperatures, hydraulic balance, pumping and control strategy. Existing system interfaces and maintenance access form part of the selection process.

## Steam Generators

Steam demand profiles, water quality, operating schedules and auxiliary equipment requirements are considered together. Technology suitability is confirmed against manufacturer documentation and actual process requirements.

## Electric Boilers

Electric boilers may serve hot water or steam duties where suitable electrical infrastructure is available. Electrical capacity, load profile, water quality, panel coordination and protection interfaces require assessment. Operating cost and performance depend on project specific calculations.

**HOT WATER**

Heat duty / flow-return

**GENERATOR**

Steam profile / water quality

**ELECTRIC**

Electrical capacity / load

HEAT GENERATION & TRANSFER

# Compatible equipment. Clear interfaces.

Technical selection starts with fuel, fluid and process requirements.

## Industrial Burners

Fuel type, operating conditions, boiler or process compatibility, control and safety interfaces are reviewed together. Supply boundaries, accessories and commissioning needs are defined through technical evaluation.

## Heat Exchangers

Selection inputs include heat duty, fluid properties, inlet and outlet temperatures, pressure drop limits, material compatibility and maintenance conditions. COMIT supports technical comparison and procurement coordination for suitable alternatives.

**PROCESS**

Fuel and fluid conditions

**SELECTION**

Heat duty and compatibility

**DELIVERY**

Scope and documentation

PROCESS EQUIPMENT

# Components for flow and control.

Equipment compatibility must support the operating requirements of the system.



Existing COMIT gallery archive - application context.

## Industrial Valves

Control, isolation and safety requirements are assessed against fluid conditions, connections, materials and automation interfaces. Actuator and positioner compatibility is checked using verified data for the selected equipment.

## Pumps & Process Equipment

Flow, head, fluid properties, materials, electrical infrastructure and maintenance needs form part of equipment selection. Auxiliary tanks and related equipment are evaluated within the system scope.

STEAM, CONDENSATE & PROCUREMENT

# Define the equipment scope together.

Procurement is coordinated with technical requirements and documentation.

## Steam & Condensate Equipment

Steam distribution, pressure control, traps, condensate return and related instrumentation are assessed against operating pressure, temperature, load changes and the system layout.

## Equipment Procurement

Support includes specification review, technical comparison of alternatives, supply boundary comparison, manufacturer documentation coordination and delivery requirement definition. Certificates and performance conditions are verified for the selected equipment.

## Stock equipment is a separate catalogue

COMIT Stock Equipment presents new / unused stock on a product basis. Suitability and availability are confirmed at quotation. This company catalogue does not constitute a stock, price or delivery commitment.

**REQUIREMENT**

Specification / operating conditions

**REVIEW**

Suitability / scope / documents

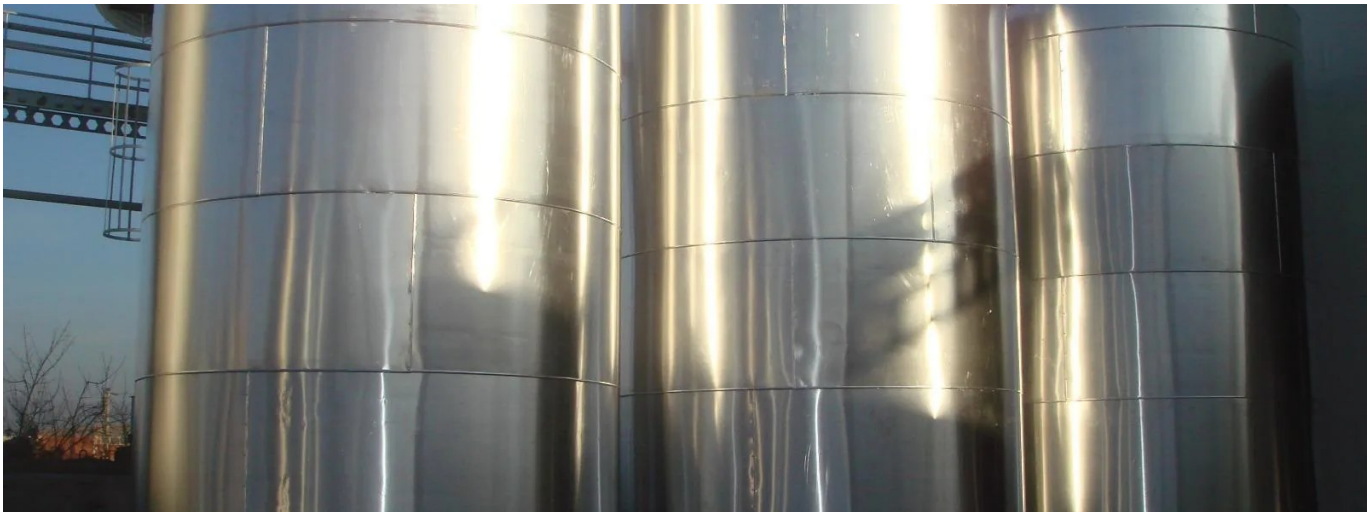
**PROCUREMENT**

Delivery and coordination

SYSTEM INTEGRATION

# Engineering across the interfaces.

Mechanical, energy, process and control interfaces are considered together.



Existing COMIT gallery archive - application context.

## System Integration

Equipment boundaries, pipework connections, auxiliary systems, control signals, operating access and maintenance needs are assessed within the project scope. The objective is a clear and coordinated definition of technical interfaces.

## Working with existing systems

Site information and existing documentation are used to define tie-in points, constraints and modification requirements. Compatibility is confirmed against verified equipment data and actual site conditions.

INSTALLATION & COMMISSIONING

# A coordinated approach on site.

Technical scope, site readiness and handover expectations are planned together.

## Installation

Site layout, equipment access, connection boundaries, sequencing and interfaces with other disciplines are reviewed. Installation scope and responsibilities are defined for each project.

## Commissioning

Commissioning readiness, equipment documentation, control and safety interfaces and handover requirements are coordinated. Checks and testing follow the manufacturer documentation of the selected system and the project requirements.

## Handover approach

Operating needs, maintenance access and technical documentation are considered from the start. Measurements and acceptance conditions are defined within the project scope.

**READINESS**

Site and connection interfaces

**EXECUTION**

Installation and check scope

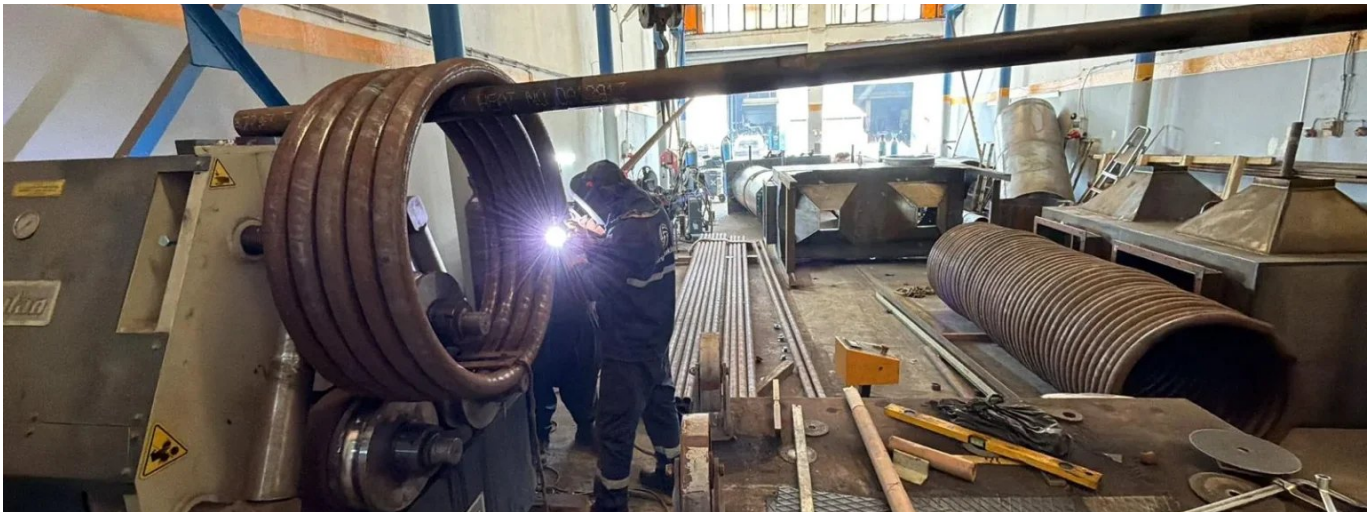
**COMMISSIONING**

Documents and handover

MAINTENANCE & TECHNICAL SERVICE

# Technical support for operation.

Maintenance and overhaul requirements are based on the actual equipment condition.



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## Maintenance & Technical Service

COMIT supports the definition of maintenance, fault assessment, technical service and overhaul scope for industrial energy and mechanical equipment. Parts and execution steps are established against the equipment information.

## Overhaul & Site Assessment

Existing documentation and site assessment help define the work. Replacement components, verification needs and delivery scope are confirmed before quotation.

CONTACT COMIT

# Let’s discuss your requirement.

Committed to Complete.


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## For a technical quotation

Share your process, technical specification, operating conditions and equipment requirement. Scope, suitability and availability are confirmed at quotation.