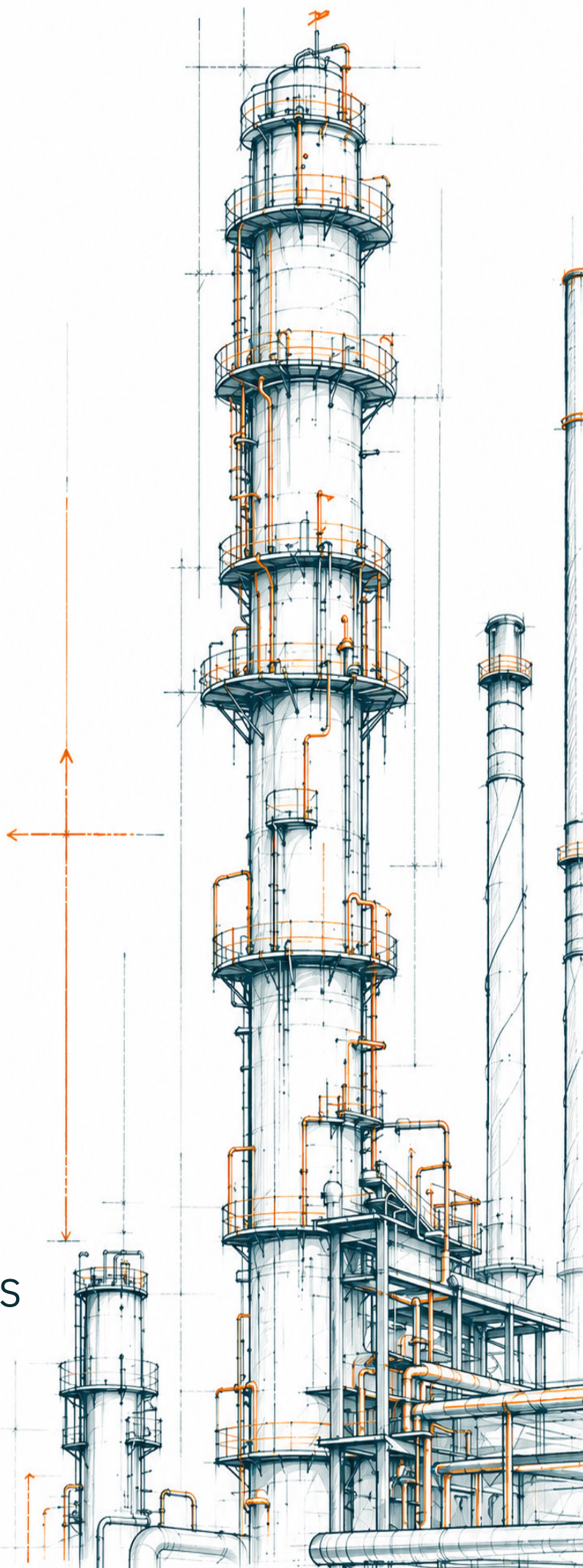




EFI ENERGY

INTEGRATED ENERGY &
INDUSTRIAL SOLUTIONS

2026



www.empirefuelindustries.com

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Company Overview

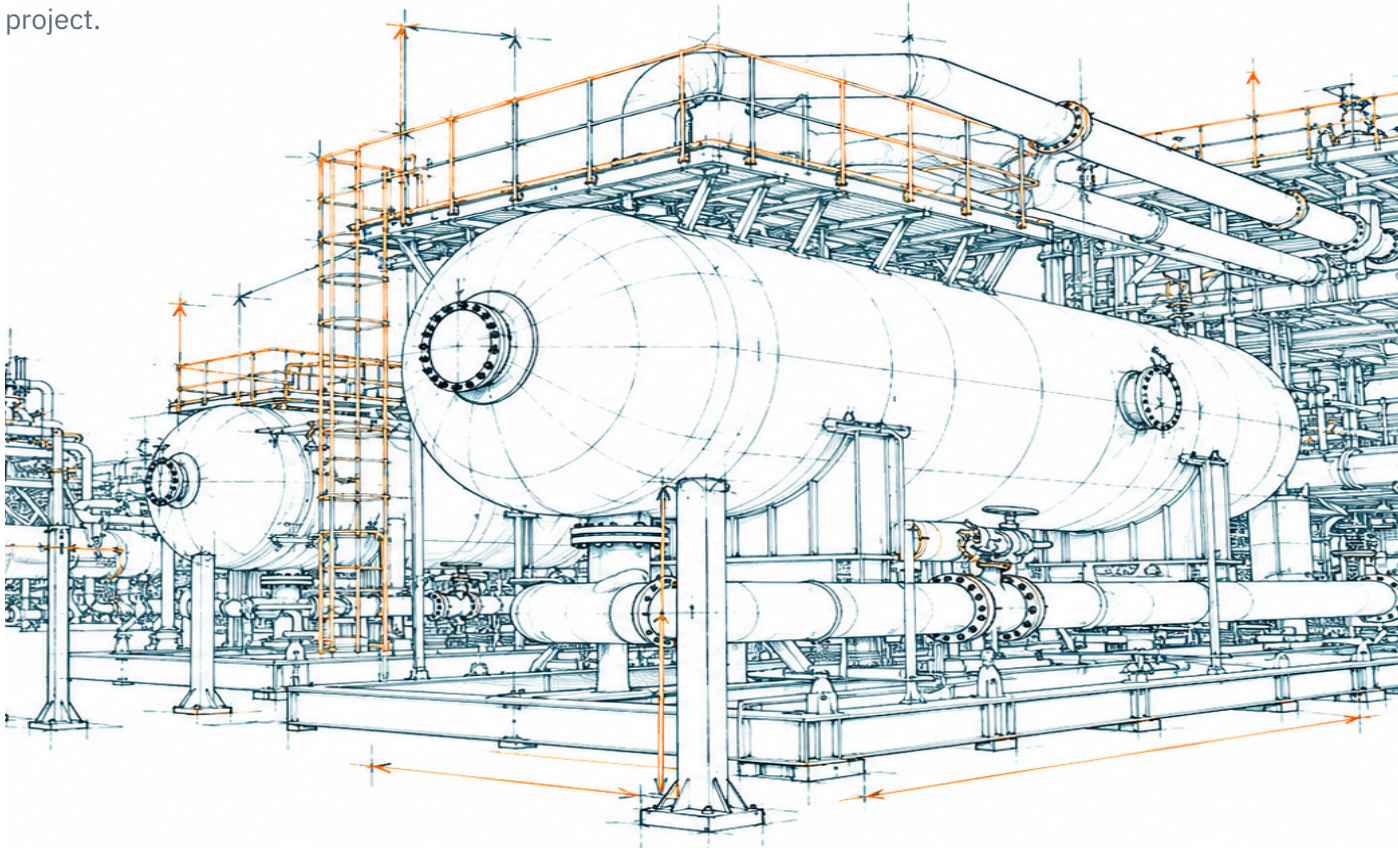
Engineering Discipline Applied to Every Project

Empire Fuel Industries (EFI) Energy is an engineering and industrial services company serving the energy and refining sectors across Iraq. Established in 2006, EFI Energy is a Turkish company licensed to operate in Iraq. It works from a head office in Istanbul and a regional office in Baghdad. The company provides integrated engineering, procurement and construction support, together with field execution and technical services, so that clients can rely on EFI Energy throughout the life of a project.

The company works through disciplined execution and structured project governance. Because engineering, procurement and construction support sit within a single delivery model, decisions remain consistent with the contract, the technical specifications and recognized international engineering practice.

Sound delivery begins with careful planning. EFI Energy teams work closely with clients and their consultants, and with the contractors and approved technical partners engaged on each project. This coordination is maintained from initial planning through to commissioning support and operational readiness.

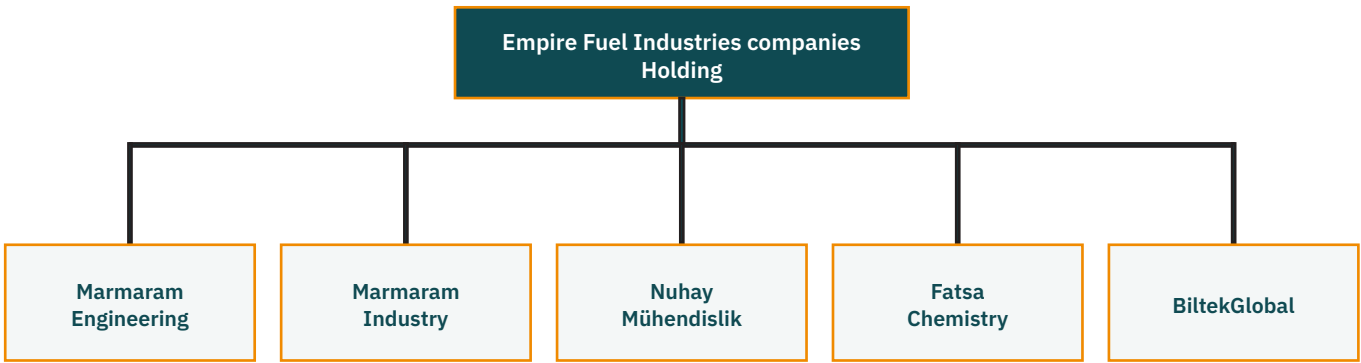
The company’s aim is straightforward: to be the partner that clients turn to first. Every assignment is held to the same standard of safety and quality, and working methods are strengthened year on year, so that the company’s contribution supports the growth of Iraq’s energy and industrial sectors well beyond any single project.



The EFI Energy Group

A Turkish Industrial Family Behind Every Project

EFI Energy is the holding company for a group of established Turkish firms. Its companies are active in engineering, manufacturing and industrial equipment, as well as fire-safety chemicals. Each company maintains its own facilities, references and certifications. Together they give EFI Energy direct in-house access to manufacturing, testing and specialized supply under a single ownership. When EFI Energy commits to a scope of work, the capability to deliver it already sits within the group.



What the Group Brings to a Project

Pressure vessels and heat exchangers, along with coils and economizers, are manufactured and hydrostatically tested within the group. Firefighting foam concentrates are produced at the group’s own chemical plant, and specialized equipment is sourced through companies with decades of supply history. This shortens lead times and keeps quality accountability within one ownership, under the single project management of EFI Energy. At Baiji and Al-Shuaiba Refineries, EFI Energy supplied alloy furnace coils and heat exchangers, together with furnace burners and air-cooled exchanger bundles, for the hydrocracking unit rehabilitation.

EFI Energy Group Companies

Marmaram Engineering

An engineering and manufacturing company focused on petrochemical manufacturing solutions, serving customers from product design and manufacturing through to complete turnkey project commissioning, training, maintenance, after-sales services and consultancy.

Marmaram Industry

An engineering and contracting company headquartered in Istanbul, delivering solutions for the oil, petrochemical, energy, steel-mill and urban-infrastructure sectors, with every business process internally audited for conformity. The company established its own transformer factory in 2014.

Nuhay Mühendislik

A specialist manufacturer of industrial heat-transfer equipment, providing engineered heating, cooling and process solutions, including process drying and dehumidification systems and hygienic full-stainless products for the food and pharmaceutical industries.

Fatsa Chemistry

A manufacturer of EFI Energy foam concentrates, in operation since 1978 and producing foam concentrates since 1980. Fatsa operates a 3,500 m² production facility, exports to 25 countries, and runs an ISO 9001:2015 quality management system certified through Bureau Veritas / UKAS, with products aligned to recognized international references including EN, ICAO, IMO, NFPA and TSE.

BiltekGlobal

A provider of industrial equipment and engineering solutions for the petrochemical, EFI Energy, oil and gas and process industries, with more than 25 years of experience and over 500 projects delivered in more than 30 countries. Work is carried out to ASME, EN and other international standards, under ISO 9001:2015, ISO 14001, OHSAS 18001 and CE certifications.

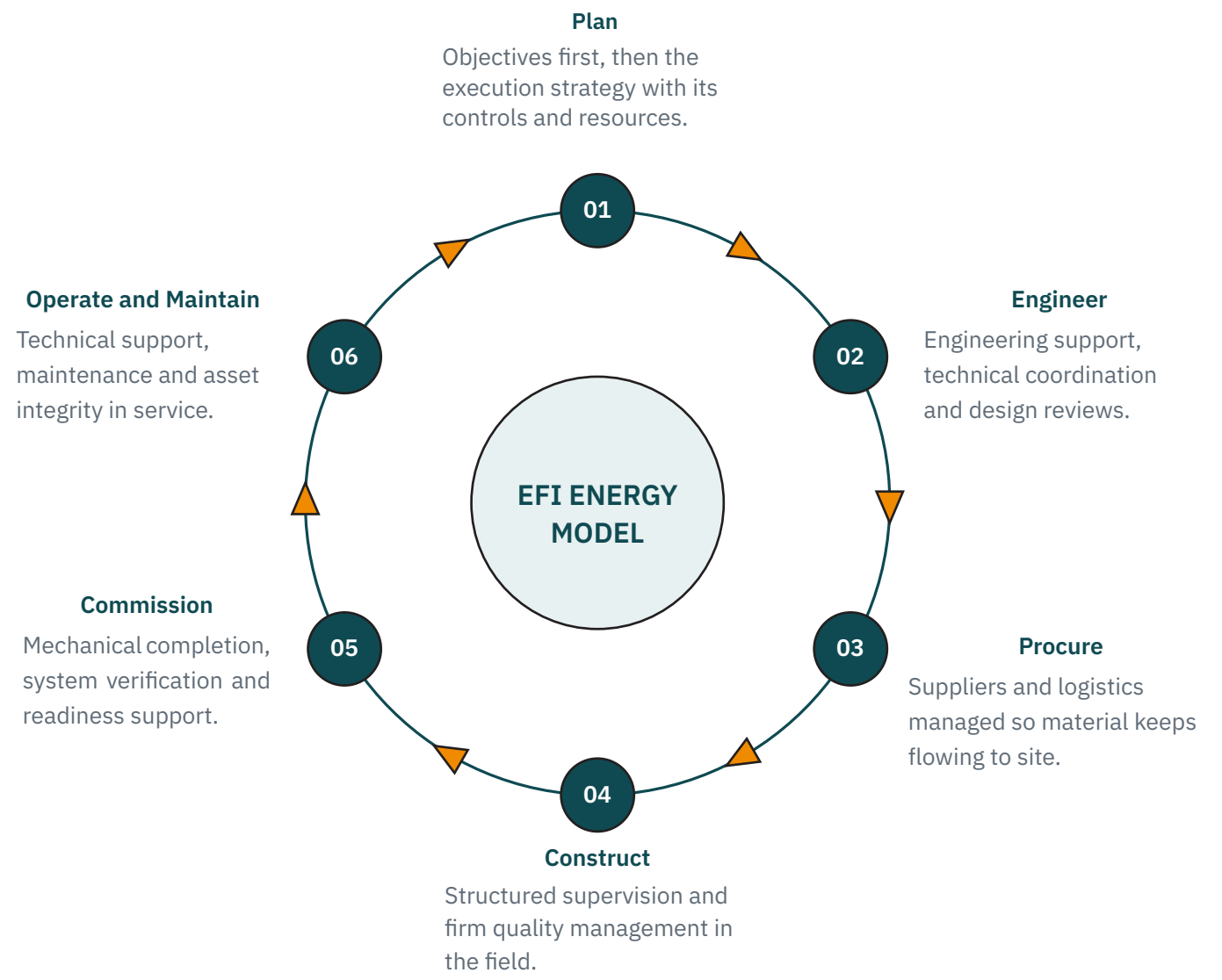
Our Operating Model

A Unified Approach from Planning to Handover

We manages its projects through a single operational framework. Engineering, procurement and construction sit under the same management as project controls and field execution. Each phase carries clear accountability, and decisions are taken without delay.

The engineering, technical and operational teams do not work in isolation. They share one management structure, which keeps communication direct and execution efficient, while the work remains compliant with the contract and the applicable regulations.

Project Delivery Framework



Our Services

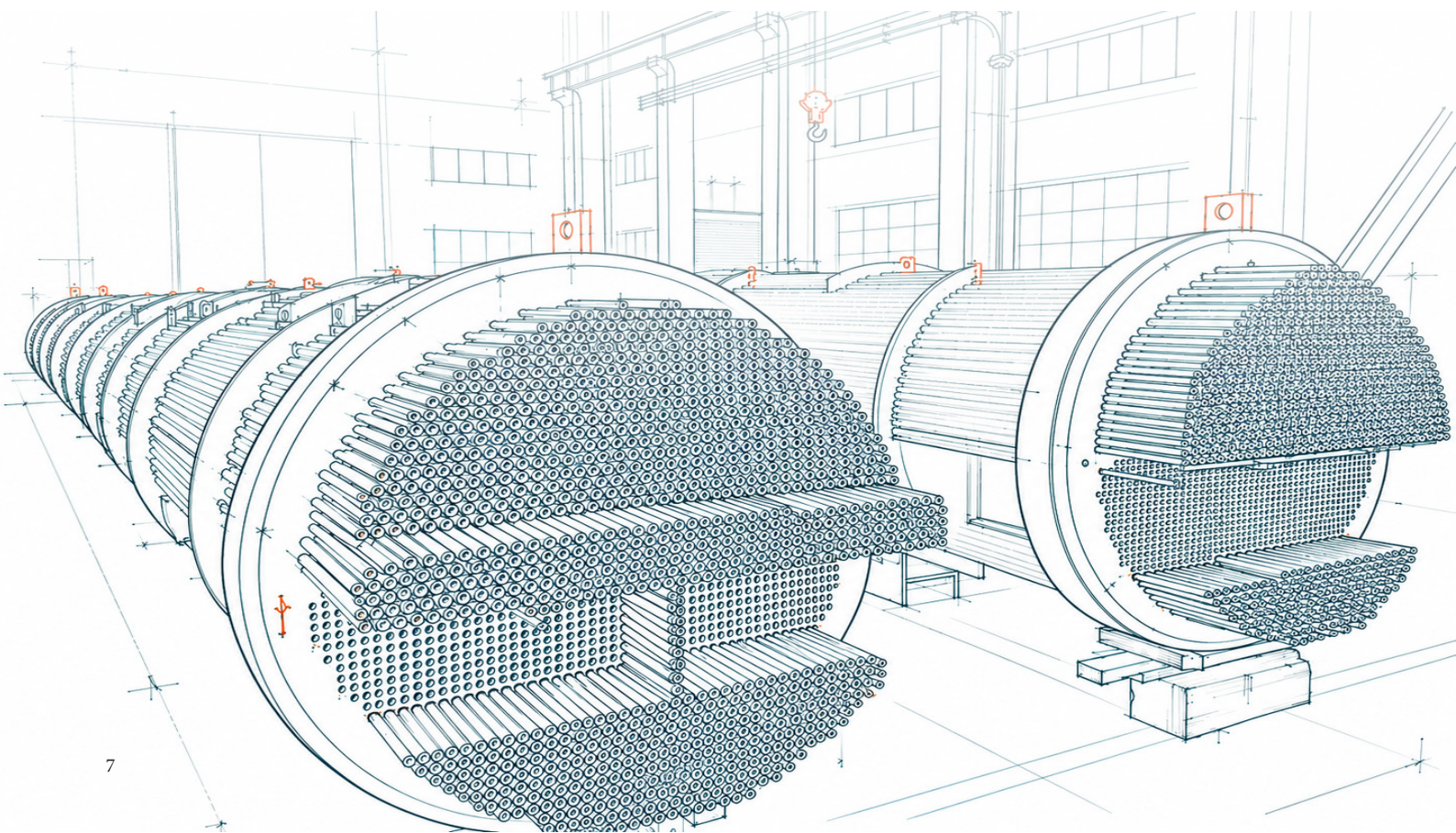
One Partner Across the Project Lifecycle

The EFI Energy's services are shaped by the practical needs of energy and industrial projects. At their core sits project management, built on structured planning, project controls and clear reporting for every assignment. Around this core, EFI Energy provides the specialized engineering that refineries and process units require, together with construction services that carry the work from civil foundations through to electrical and instrumentation installation.

Once a facility is in operation, EFI Energy remains engaged. Maintenance programs, shutdown and turnaround work and modifications inside running plants keep production assets performing. Supply chain and procurement services support every stage of this work, from approved sourcing through to delivery at site. Where a client requires qualified personnel rather than a full scope of work, EFI Energy also provides technical manpower selected against the demands of the assignment.

Engaged separately, stronger together

Each service has its own chapter in the pages that follow. They can be engaged separately, but they deliver the most value together, managed under one delivery model.



Engineering Services

Support Critical Assets and Complex Units

EFI Energy provides specialized engineering support to refineries and process facilities, with particular attention to high-temperature and high-pressure systems, conversion reactors and regenerator internals. This work is integrated with procurement and construction, so that technical decisions carry through into field execution.

Reactor and Regenerator Support

Refractory inspections, catalyst distribution management and integrity monitoring of expansion joints and flue gas systems.

Asset Integrity for Static Equipment

Fitness-for-service assessment and risk-based inspection, with reference to the applicable API and ASME requirements. Sour service materials follow the relevant NACE requirements.

High-Alloy Piping and Mechanical Systems

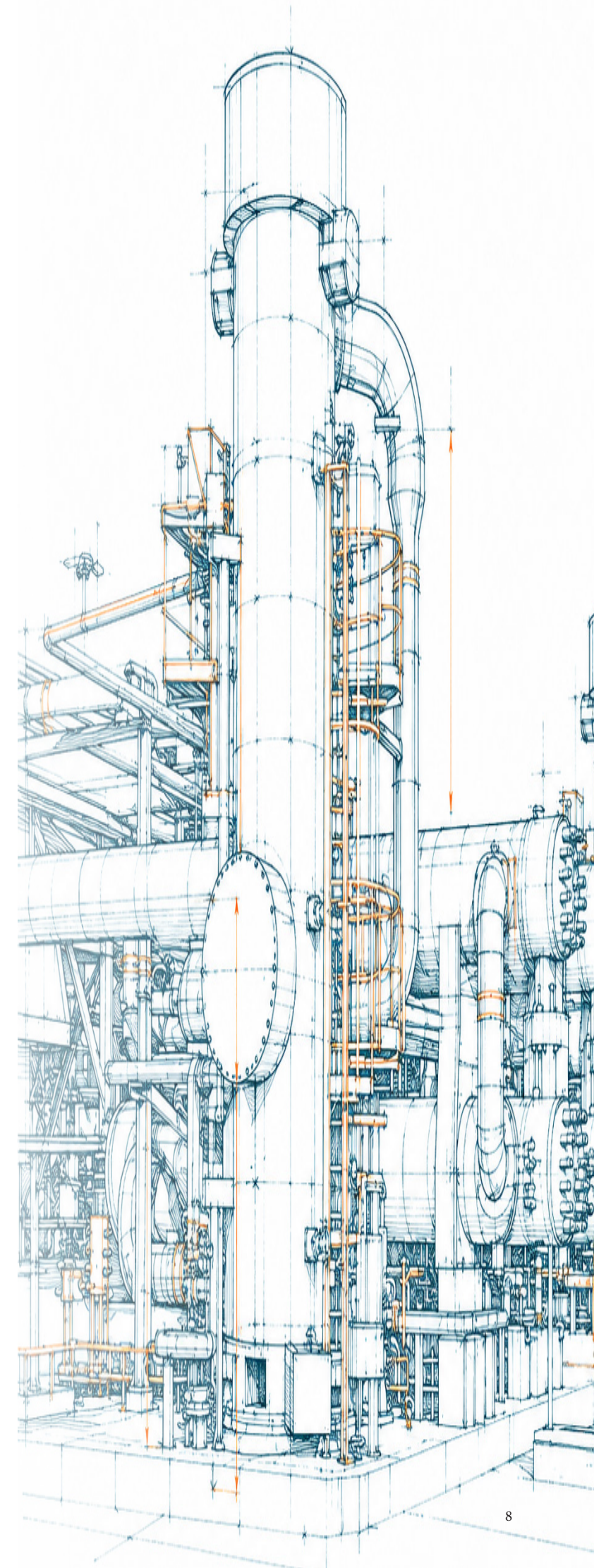
Inspection, creep monitoring and repair of high-alloy piping under severe operating conditions.

Heat Exchangers and Columns

Decoking, hydrotesting and re-tubing of exchangers and separation columns, scheduled around operations.

Integrated Engineering Coordination

Solutions stay constructible and satisfy licensor requirements, so risk does not build between design, procurement and construction.



Construction Management and Delivery

Safe and Controlled Field Execution

EFI Energy delivers construction through a structured execution model. Engineering coordination and construction management run together with quality assurance and HSE leadership, so that productivity and control are maintained at every stage of field execution.

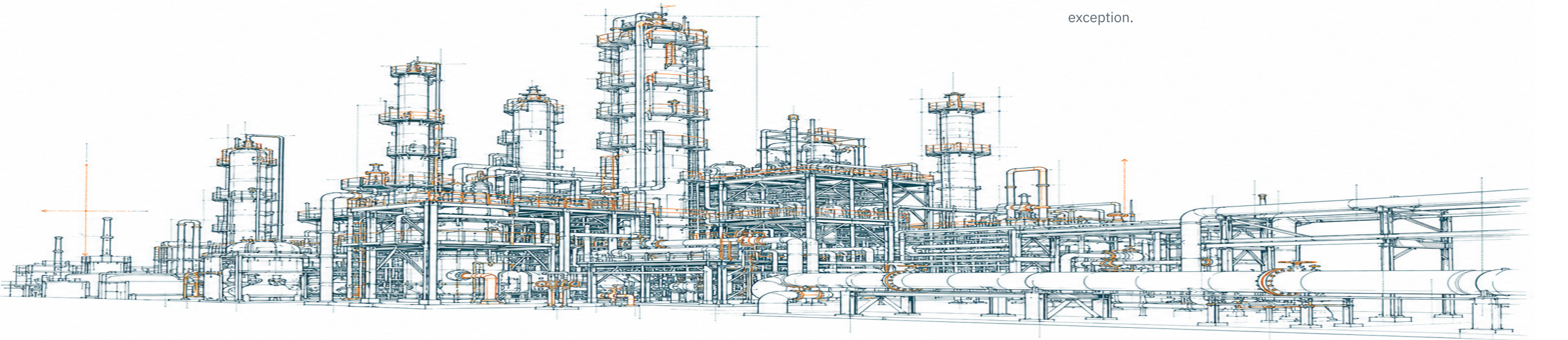
Civil and Structural Works	Civil scopes from earthworks and concrete foundations through to equipment bases and structural steel erection.
Mechanical Installations	Static and rotating equipment, from pumps and compressors to turbines, with their supporting systems.
Electrical and Instrumentation	Electrical installation covers power distribution, lighting and grounding. Instrumentation covers field instruments, impulse tubing and control devices.
Mechanical Completion Management	Inspection and testing supported, documentation completed, systems handed over ready for commissioning.

Maintenance and Asset Reliability

Sustaining Asset Performance in Operation

Effective maintenance keeps a plant in production. EFI Energy provides integrated operations and maintenance support that places engineering knowledge behind structured work management. The same approach serves planned maintenance, plant modifications and shutdown or turnaround work.

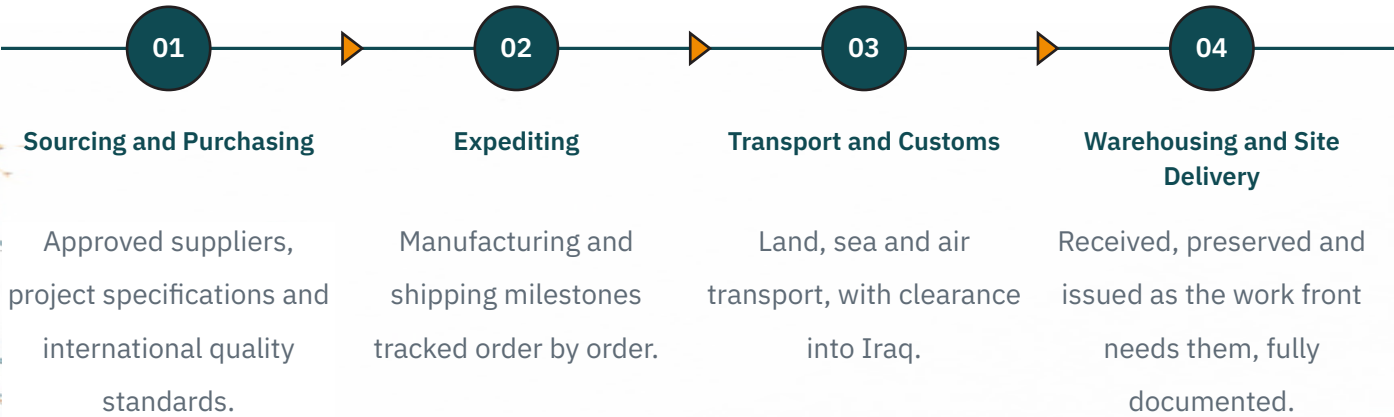
Preventive and Predictive Maintenance	Programs built around equipment reliability and asset life, with condition monitoring catching failures before they interrupt production.
Shutdowns and Turnarounds	Detailed planning and disciplined coordination through to mechanical completion, so process units return to service on schedule.
Mechanical Integrity	Inspection systems and maintenance planning, with reference to the applicable API standards for static equipment.
Brownfield Modifications	Modifications and equipment replacements inside operating plants, with production maintained and permit-to-work followed without exception.



Supply Chain and Procurement

Energy and industrial projects depend on materials and equipment arriving on time. EFI Energy manages the supply chain from approved sourcing through to delivery at site. Every purchase follows the client’s specifications and the approval procedures set for the project, and each order is tracked to protect the schedule.

From Approved Sourcing to the Work Front



Health, Safety, Environment and Quality

Protecting people and assets while delivering quality work

Health and safety, together with environmental care and quality, are fundamental to how EFI Energy conducts its business. They are built into the operational framework and shape every stage of project planning, execution and delivery.

Our Quality Approach

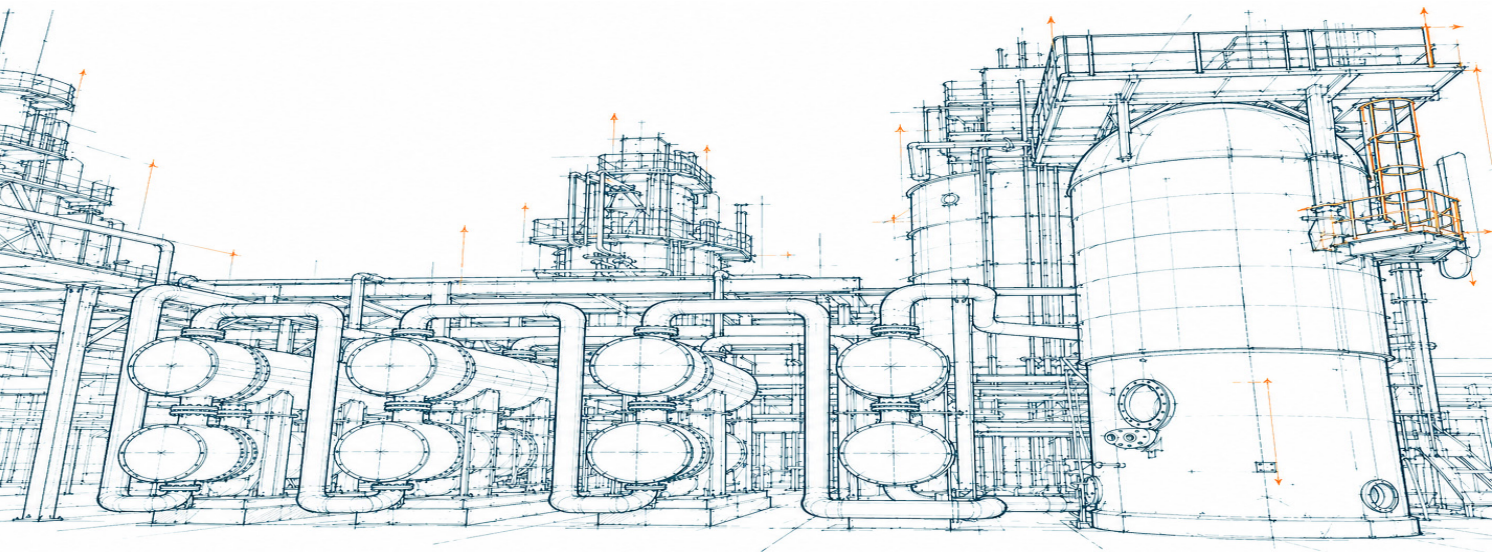
The company plans inspection and testing before work begins, documents it as work proceeds, and delivers it with the final handover package. Inspection and test plans follow the applicable ASME and API requirements, and non-destructive testing is carried out by certified technicians.

HSEQ Principles

Hazards are brought under control before work starts, and lessons feed back into the system.

- Visible Leadership
- Systematic Risk Management
- Environmental Responsibility
- Continuous Improvement
- Quality Culture

Local Workforce Strength



Workforce Capability

Sustainable project performance depends on the capability and commitment of the workforce. The people of EFI Energy are central to everything the company delivers, and they are managed through a structured approach focused on technical competence, professional development and operational readiness.

Rapid Mobilization

A standing base in Baghdad puts EFI Energy teams on site quickly, anywhere in Iraq.

Regulatory Knowledge

Deep familiarity with Iraqi regulation, customs and logistics keeps projects moving.

Local Content

Qualified Iraqi personnel are nominated for every available role, building national capacity.

The EFI Energy Local Advantage

From its Baghdad office, EFI Energy can mobilize quickly and respond to client requirements anywhere in Iraq. The company knows the local regulatory and legal framework in depth, and that knowledge reduces lead times and costs for clients.

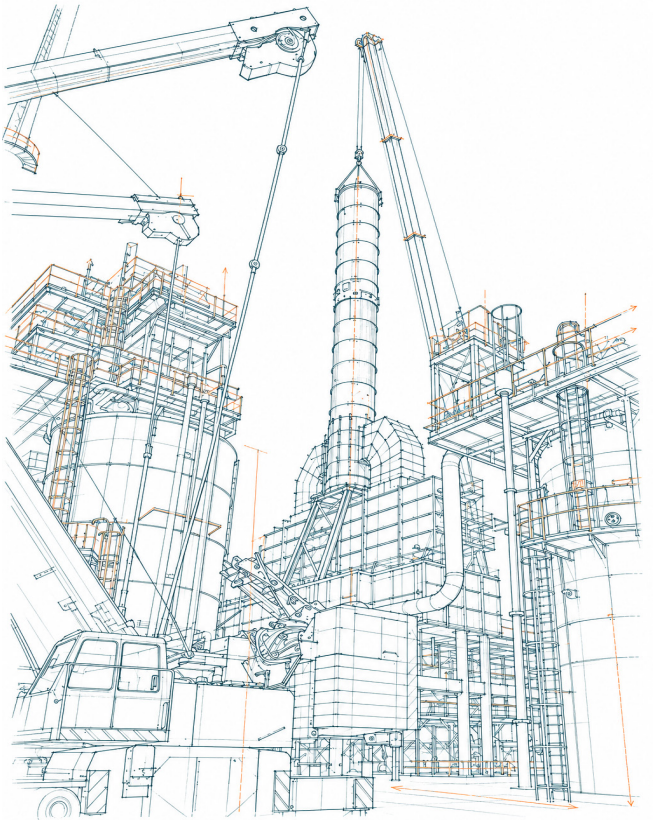
Governance and Management Systems

Structured Governance Behind Consistent Execution

EFI Energy operates through an Integrated Management System (IMS). The system provides the framework for planning and running business operations, then for monitoring performance and improving the system itself. It aligns operational processes and technical activities with management responsibility, so that project delivery stays consistent and governance remains effective.

One management system

Planning, execution and monitoring run through the same framework, so improvement is continuous rather than occasional.



Governance Principles

- 01

Accountability and Transparency

Responsibilities clearly defined, authority delegated so decisions come on time.
- 02

Ethics and Integrity

Business conducted with honesty and professionalism.
- 03

Risk Governance

Risks identified, evaluated and managed through structured processes.
- 04

Compliance

Contractual obligations, regulatory requirements and internal standards met in full.
- 05

Continuous Improvement

Systems reviewed regularly to strengthen the organization for the long term.

Strategic Partnerships and Competitive Edge

Why Choose EFI Energy?

Technical capability alone does not deliver a project. Clients also need a partner who works safely, communicates clearly and answers for its performance. EFI Energy combines engineering expertise with disciplined execution and an integrated delivery model, and holds itself to the commitments it makes.

01

Integrated Delivery Model

Engineering, procurement and construction support in one framework, coordination built in.

02

Technical Depth

Multidisciplinary teams working to recognized standards such as API and ASME.

03

Established Local Presence

Proven rapid mobilization across Iraq and a thorough grasp of the local environment.

04

Safety and Quality Culture

HSEQ principles present in every function, so execution stays responsible.

05

Operational Flexibility

Support under different execution models, adapting when requirements change.

06

Partnership Focus

Long-term relationships built on trust, transparency and consistent performance.

Experience and Projects

A Delivery Record in the Energy Sector

The delivery record of EFI Energy was built on energy projects for state and municipal clients. Between 2010 and 2016 the company completed gas pipeline, processing and compressor works in Turkmenistan. Work in Nigeria followed, with the design and construction of an oil refinery. That experience now carries into the company’s services in Iraq.

Client	Project	Location
North Refineries Company	Design, fabrication supervision and supply of the main furnace coils, including burners, for the Catalytic Reforming Unit	Baiji, Iraq
North Refineries Company	Supply of vertical heat exchangers for the Catalytic Reforming Unit	Baiji, Iraq
North Refineries Company	Supply of the main heat exchangers for the Hydrotreating Unit	Baiji, Iraq
Private Industrial Client	Development of a Light Linear Alkanes Production Plant under an Engineering, Procurement, Construction and Financing (EPCF) model	Basra, Iraq
Private Industrial Client	Development of the Magnetically Catalyzed Cracking (MCC) Project	Basra, Iraq
South Refineries Company	Design, rehabilitation, and addition of new units for the Lubricant/Oils Units at the Shuaiba Refinery	Basra, Iraq
Türkmengaz	Gas pipeline Malay–Bagtyýarlyk with gas drying complex and measurement station	Turkmenistan
Türkmengaz	Bridge pipeline crossing of the Amu Darya river (Turkmenistan–China gas pipeline)	Turkmenistan
Türkmengaz	Gas drying complex Bagtyýarlyk-2	Turkmenistan
Türkmengaz	Reserve gas pipeline Dovletabat–Deryalyk, second line	Turkmenistan
Malay field operator	Construction of compressor stations on the Malay field	Turkmenistan
Abuja municipality	Design and construction of an oil refinery	Nigeria

Sectors of Activity

REFI Energyning

Maintenance programs, upgrades and turnaround works.

Gas and Pipelines

Gas facilities, pipeline systems and connecting infrastructure.

Storage and Distribution

Tank farms, terminals and product-handling systems.

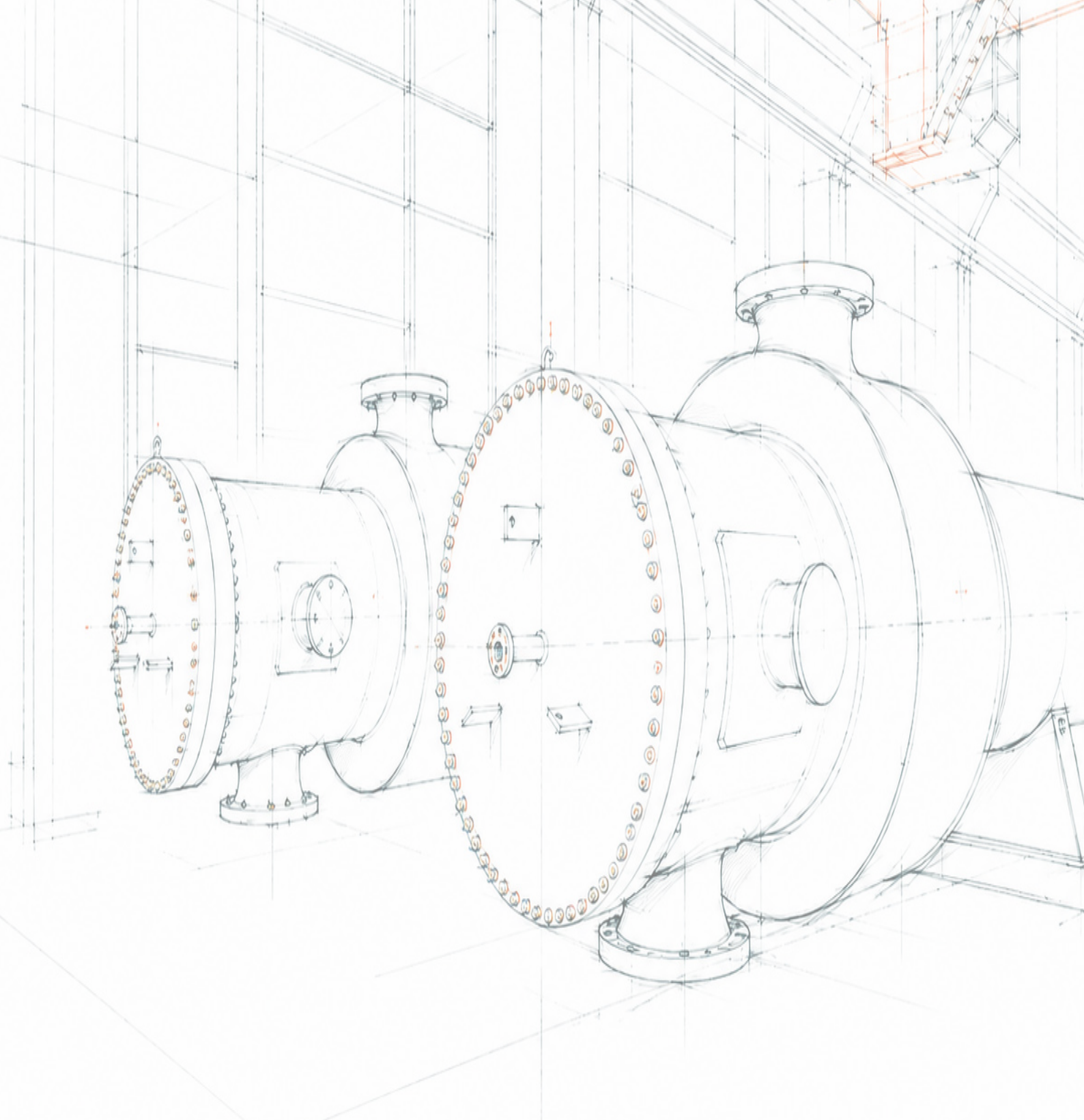
Petrochemicals and Industry

New developments and operating plants across the industrial base.

Utilities and Infrastructure

Utility systems and supporting infrastructure construction.

“We start by understanding the assignment, integrate the disciplines it needs, execute the work, and carry the lessons into the next project.”



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