

Company profile 2026

EPC, PMC & Engineering Services

Project management, project controls and engineering for oil & gas, LNG, petrochemical, power, pipeline and energy-transition projects, delivered by experienced EPC professionals and backed by data, analytics and AI-assisted tools.



Energy Total Group

Office	37th Floor, Sathorn Square, Sathorn Road, Bangkok, Thailand
Phone	+66 96 169 1299 +66 84 110 8498
Email	energytotal.md@gmail.com
Web	energytotalgroup.com

Who we are

An association of proven EPC professionals

Energy Total Group brings together senior engineers, project managers and project controls specialists from the world's leading EPC contractors and owners, ready to work in your office, at site or remotely.

What we do

Project management consultancy (PMC), EPCM support, PMO set-up, project controls, basic and detailed engineering, procurement and construction support, trained manpower and technical training.

Where we work

Oil & gas, LNG and regasification, refining and petrochemicals, chemicals, pipelines, offshore and floating facilities, power, fertilisers, mining, utilities and infrastructure.

How we are different

Senior people who have delivered megaprojects, working to recognised standards, with modern digital and AI-assisted tools that make reporting faster and decisions better informed.

- Head office: Bangkok, Thailand
- Onshore and offshore
- Office, site or remote
- Parent company of EPC Disputes Advisory

What is changing for energy and EPC projects

Gas and LNG keep building

New liquefaction trains, FSRUs, regasification terminals and pipelines continue to move ahead worldwide, with demanding schedules and tight contractor markets.

Cost and schedule pressure

Megaprojects still face overruns, supply-chain volatility and change. Owners and lenders expect stronger project controls and earlier warning of risk.

Energy-transition scope arrives

Hydrogen, carbon capture, renewables with storage and grid upgrades add new technologies and more interfaces to traditional EPC delivery.

Data, digital and AI

Clients now expect live dashboards, digital engineering models and AI-assisted analysis, alongside a growing need to replace retiring experience with trained people.

Our response: experienced people, proven methods and practical digital tools, so projects are planned realistically, controlled transparently and protected against disputes.

One partner across the project lifecycle

Project management (PMC)	Owner's PMC, EPCM consultancy and Project Management Office set-up for owners, consultants, contractors and vendors.
Project controls	Estimating and budgeting, planning and scheduling, earned value, cost control, risk analysis and reporting, at site, in office or remotely.
Engineering	Basic, FEED and detailed engineering for process, piping, mechanical, civil and structural, HVAC, electrical, instrumentation and pipelines.
Procurement & construction	Procurement engineering, vendor document review, expediting, construction management and site supervision.
Process safety & risk	HAZOP, HAZID, QRA, fire and explosion risk assessment and project risk management.
People & training	Deputation of trained engineers and designers, plus technical, software and management training.
Disputes advisory	Forensic delay analysis and expert witness support through our subsidiary, EPC Disputes Advisory.

PMC, EPCM and Project Management Office set-up

We act as the owner's team or strengthen yours: setting up governance, procedures and controls so the project is run on facts, not optimism.

Engagement options: full PMC team, embedded specialists inside your organisation, part-time senior advisers, or remote project controls support.

Owner's PMC

- Contract strategy and packaging
- Tender evaluation support
- Contractor supervision and progress verification

PMO set-up

- Organisation, roles and procedures
- Reporting cycles and KPIs
- Document control and records

EPCM support

- Engineering and procurement management
- Interface and change management
- Construction and commissioning oversight

Governance & assurance

- Stage-gate and readiness reviews
- Independent project health checks
- Lessons learned and close-out

Schedules and budgets that stand up to scrutiny

Our controls teams have led project controls on refinery, LNG, pipeline and offshore megaprojects, including a 67-person team across five countries.

Area	What we deliver	Methods and tools
Planning & scheduling	WBS, baseline schedules, integrated master schedules, look-aheads, updates and recovery schedules	Primavera P6, critical path method
Cost & estimating	Estimates, budgets, cash-flow forecasts, cost reporting and trend management	AACE classification, cost breakdown structures
Earned value	Progress measurement rules, S-curves, CPI / SPI and forecast at completion	EVMS practices
Schedule quality	Independent reviews of baselines and updates before they are relied on	DCMA 14-point assessment
Risk	Risk registers, quantitative schedule and cost risk, contingency setting	Monte Carlo simulation (P50 / P80)
Reporting	Weekly and monthly reports, executive dashboards, lender and board reporting	KPI dashboards, automated reporting

Expert judgement, supported by data and AI

We use modern analytics and AI tools to do routine analysis faster and spot problems earlier. Every finding is checked and signed off by an experienced engineer.

Schedule health checks

Automated logic, constraint and DCMA 14-point checks on every schedule update, with exceptions reviewed by a planner.

Risk simulation

Monte Carlo analysis of schedule and cost to set realistic P50 / P80 dates and contingency.

Live dashboards

Progress, earned value and cost KPIs pulled from schedule and cost data, updated each reporting cycle.

Document intelligence

AI-assisted search and summaries of correspondence, minutes and daily reports to flag change, delay and claim risks early.

Digital engineering

Intelligent P&IDs, 3D plant models and laser-scan based modelling for brownfield modifications.

Safe use of AI

Client data stays in agreed, secure environments. Confidential material is never placed in public AI tools.

Basic, FEED and detailed engineering by discipline

Discipline	Typical deliverables
Process	Simulation, heat and material balances, PFDs, P&IDs (intelligent P&ID), equipment and instrument process data sheets, hydraulics
Piping & layout	Plot plans, equipment and piping layouts, GA drawings, 3D models, isometrics with BOM, material and valve specifications, spool drawings
Piping stress	Stress analysis of critical lines, support design and special supports
Mechanical	Static equipment, storage tanks and spheres, rotating equipment specifications, vendor document review
Civil & structural	Foundations, RCC and steel structures, pipe racks, connection design, MTO and weight control, FEA
HVAC	Heat load calculations, HVAC design for plant buildings, living quarters and pharmaceutical facilities
Electrical	Load lists, single line diagrams, cable sizing, earthing and lighting, hazardous area classification, power system studies
Instrumentation & telecom	Instrument index, data sheets, loop and wiring diagrams, hook-ups, control system and telecom design
Pipelines	Route studies, DFR, basic and detailed engineering, crossings and HDD, station piping

Analysis and design for onshore and offshore facilities

Fixed platforms

- In-service and pre-service analysis
- Dynamic, fatigue and collapse
- Pushover and mating analysis
- Floatation, upending, on-bottom
- Cathodic protection design

FPSO and MOPU

- In-service and pre-service analysis of modules
- Topside and hull engineering support
- Local equipment rooms

Onshore plants

- Plot plan and site grading
- Static and dynamic analysis of RCC and steel
- Welded and bolted connections
- Revamps and brownfield modifications

Power and water

- Main plant buildings and pipe racks
- Pump houses, silos and tanks
- Conveyor galleries and transfer towers
- Seismic and FEA design of water-retaining structures

Identify hazards early, design them out

- Process hazard analysis (PHA)
- HAZOP studies
- HAZID studies
- Inherently safer design review
- Bow-tie analysis
- What-if analysis
- Quantitative risk assessment (QRA)
- Dispersion analysis
- Fire and explosion risk assessment
- HIRA for construction and operations
- Project risk management

Why it matters

Safety studies that are done late cause redesign, delay and change orders. We run them at the right stage and track actions to close-out, so findings are built into the design rather than added on.

Trained manpower when and where you need it

We supply competent engineers, 2D designers and 3D modellers across all disciplines to EPC contractors, consultants and vendors, onshore and offshore, on short or long-term deputation.

- Part-time or full-time, short or long term
- Work at your office, at site, or remotely from our team
- Teams can work inside your premises so your data stays with you
- Backed by our own training programmes

Software our teams use

Smart Plant 3D

E3D / PDMS

PDS

SmartPlant P&ID

SmartPlant Instrumentation

Navisworks

AutoCAD

MicroStation

CAESAR II

AutoPIPE

PV Elite

STAAD Pro

SACS

Tekla

ETAP

HYSYS

PRO II

HTRI

PIPEPHASE

Primavera P6

Codes and standards

ASME	API 650 / 620 / 560	TEMA	NFPA	ASCE
BS / EN / Eurocode	DIN	IS	AWWA	PIP

Senior people from leading EPC organisations

Name	Discipline	Selected career history
Sumer Jain	Founder & CEO, project controls (about 30 years)	Reliance, Engineers India, Larsen & Toubro, Bechtel, Samsung Heavy Industries, WorleyParsons, Tractebel
R.P. Patel	General Manager, Piping Engineering	Fluor Daniel, GS Engineering & Construction, Jacobs H&G, Kinetic Technology India
Biman Roy Chaudhary	Civil & structural (offshore)	Sapura Kencana, Foster Wheeler, Technip, DSME, Brown & Root, Sarawak Shell, Engineers India
C.P. Shinghal	Mechanical, rotating equipment	Amec Foster Wheeler, Saipem, Petronas Carigali, CCC Abu Dhabi, Worley Qatar, Technip, Brunei Shell
P.K. Roy Chaudhary	Piping (offshore)	Bumi Armada, Samsung Heavy Industries, Hyundai Heavy Industries, Engineers India
Tushar Bandyopadhyay	Pipelines and storage	Indian Oil Corporation, Triune Energy Services
Avadh Kishore Jain	Electrical	Tractebel, Simon India, Humphreys & Glasgow, Projects & Development India
Arvind Kumar	Mechanical, rotating and static	Samsung Engineering, Bechtel, WorleyParsons, Samsung Heavy Industries
Ajay Shrivastava	Static equipment and tanks	Jacobs Engineering, Samsung Engineering
Pradeep Kumar Suman	HVAC	Samsung Engineering, Foster Wheeler, ABB

Also: Navin Chander Bhatt (piping), B. Basu (environmental), Faisel Tufel and Divey Mahajan (civil and structural), Lijo George (instrumentation), Punam Lade and Harish Negi (process).

Megaprojects behind our team

7 → 3.5

years: Reliance Jamnagar refinery build compressed; delay recovered from 6 months to 25 days on the marine terminal and tank farm packages

67

person project controls team across five countries on the OQ Oman Strategic Fuel Reserve programme (US\$1.3B)

US\$1.4B

Chevron Pascagoula refinery, USA: time impact analyses on major delay events, delivered under Bechtel

US\$261M

India LNG FSRU regasification terminal programme delivered by Energy Total Group

Our team has also worked on the Cairn India satellite oil fields quick production facility (FEED, with Energy Total as engineering contractor), the GAIL Pata petrochemical complex and the PETRONAS RAPID tank farm.

Project experience: refining, petrochemicals and gas

Refining, petrochemicals and LNG

Project	Scope
Rabigh Phase II Petrochemicals, Saudi Arabia	MTBE / isobutylene and metathesis plants
KNPC Mina Al-Ahmadi Refinery, Kuwait	Acid gas removal plant revamp, FEED
UGCC Akchalak, Uzbekistan	Polyethylene and polypropylene units, gas separation, utilities and offsites
Ruwais Refinery Expansion, UAE	Hydrotreating and NGL units
Karbala Refinery, SCOP Iraq	Design, engineering and construction support
PDH propane dehydrogenation unit, Houston	Detailed engineering, 500,000 t/y propylene
Petronet Dahej LNG tank farm, India	LNG storage engineering
Ichthys LNG Central Processing Facility	Engineering support
Pluto LNG / Mundra LNG	FEED and proposal engineering, HVAC
Abu Dhabi Gas (GASCO)	Pipelines and pumping stations
Reliance Jamnagar and Hazira; IOCL Mathura and Paradip	Refinery, VCM, polypropylene and DHDT projects

Projects delivered by Energy Total Group or by our key personnel during their careers with the organisations named.

Cross-country and subsea pipelines

Project	Scope
Kuwait Oil Company, North Kuwait	Detailed engineering of high-pressure gas injection pipelines
KNPC inter-refinery pipelines, Kuwait	24" to 6" product pipelines between MAA, Shuaiba and MAB (brownfield)
Kakinada–Dadri gas pipeline, India	DFR and basic engineering, 1,600 km
Surat–Paradip gas pipeline, GSPL	DFR and basic engineering, 1,490 km
Salaya–Mathura crude pipeline	1,870 km with crude tanks and 11 booster stations
GTCL gas pipeline, Bangladesh	30", 60 km detailed engineering with six HDD crossings
IOCL Paradip crude unloading terminal	Onshore facilities for 30 million t/y crude
HPCL Vizag submarine pipeline	DFR and basic engineering, 24", to DNV code
HPCL Mumbai–Pune–Solapur	Capacity augmentation, 560 km
Baroda–Ahmedabad–Kalol pipeline, GSPL	Project controls (US\$1.8B programme)

Projects delivered by Energy Total Group or by our key personnel during their careers with the organisations named.

Project experience: offshore and floating

Offshore platforms, FPSOs and rigs

Project	Scope
BP Mad Dog floating spar	Engineering support
Shell Bonga South West Aparo	Engineering support
Total Egina FPSO	Hull and topside engineering
MODEC MV-24 FPSO	Engineering of gas turbine generator module
ONGC Sagar Samrat MOPU	FPSO topside engineering
ONGC HRP-II and Karan gas field	Wellhead platforms, offshore platforms and subsea pipelines
Gazflot semi-submersible drilling rigs, Russia	Hull and living quarters engineering, HVAC 3D modelling
Flex LNG and GFPSO	FEED verification
Sakhalin-1 Odoptu Stage 2, Russia	Oil and gas development engineering
Tiger drillship; CAT-J jack-up rig	Engineering support

Projects delivered by Energy Total Group or by our key personnel during their careers with the organisations named.

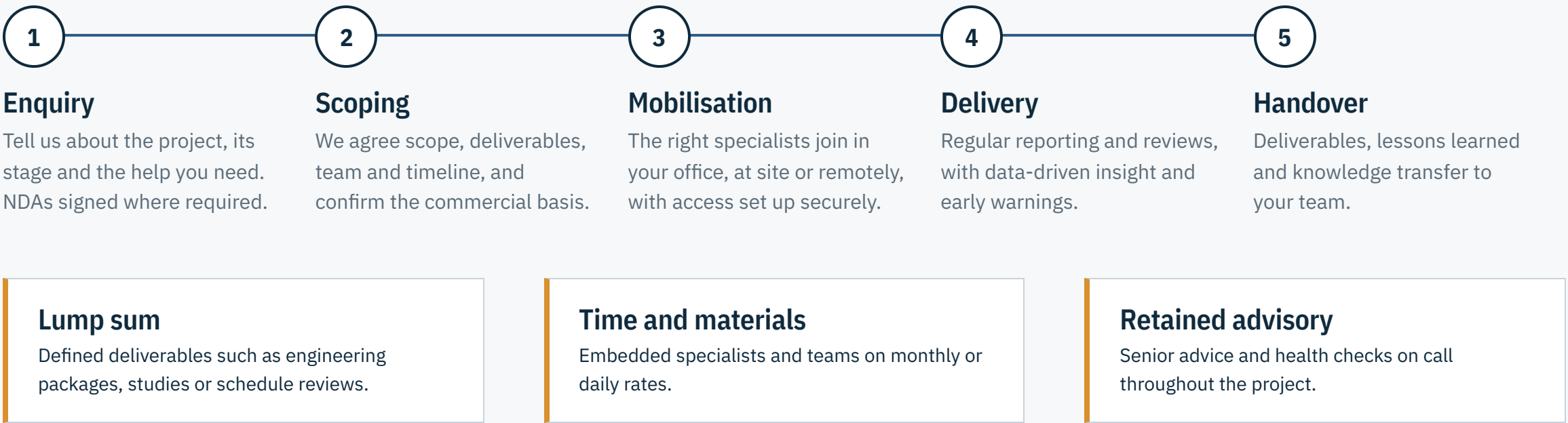
Project experience: power, fertilisers and industry

Power, fertilisers, chemicals and pharmaceuticals

Project	Scope
Cairn India satellite oil fields	FEED for quick production facility, with Energy Total as engineering contractor
Tata Fertilizers, Babrala	1,350 t/d ammonia and 2 × 1,125 t/d urea (Snamprogetti as main consultant)
Indo Gulf Fertilizers, Jagdishpur	Ammonia and urea plant electrical systems
MRPL Phase II, Mangalore	3 × 25 MW steam turbine generators
Assam State Electricity Board; ONGC Lakwa	Gas turbine and steam turbine power plants
NTPC	Environmental clearance and EIA studies
Steel Authority of India	Air separation plants, 100–200 t/d
Thai Organic Chemicals, Thailand	Epichlorohydrin plant
Oswal Chemicals & Fertilizers	2 × 3,500 t/d sulphuric acid plant
Torrent, Reliance Life Sciences, Serum Institute	Pharmaceutical plants, HVAC and design qualification

Projects delivered by Energy Total Group or by our key personnel during their careers with the organisations named.

From first call to delivered results



An Energy Total Group company

EPC Disputes Advisory

Independent forensic schedule analysis and expert witness support for delay and disruption claims on EPC and infrastructure projects.

Delay claims

Extension of time entitlement, prolongation, concurrency and disruption.

Forensic analysis

AACE 29R-03 methods: windows, time impact analysis, collapsed as-built.

Expert witness

Certified Expert Witness reports and testimony for arbitration.

Contact **sumer@epcdisputesadvisory.com** | epcdisputesadvisory.com

Contact us

Let's talk about your project

Tell us where your project is and what you need. We'll come back with the right people and a clear proposal.

Office 37th Floor, Sathorn Square, Sathorn Road, Bangkok, Thailand
Phone +66 96 169 1299 · +66 84 110 8498
Email energytotal.md@gmail.com
Web energytotalgroup.com

Also from Energy Total Group

- Industrial training: training.energytotalgroup.com
- Equipment supply and support
- EPC Disputes Advisory: epcdisputesadvisory.com