



Energy Total Group

EPC consultancy, engineering and dispute advisory

Project management, project controls, engineering, industrial training, equipment support and forensic delay analysis for oil & gas, LNG, petrochemical, power and pipeline projects.

SERVICES BROCHURE

2026 edition

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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.

30 yrs of EPC project controls and claims experience at the top of our team	US\$5B+ combined value of the megaprojects behind our analysis	67 person project controls team led across five countries	3.5 yrs Reliance Jamnagar build, compressed from 7 years
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Where we work

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

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. Every finding is checked by an experienced engineer.

One partner across the project lifecycle

- **Project consultancy:** owner's PMC, EPCM support, PMO set-up and project controls
- **Engineering:** basic, FEED and detailed engineering in every discipline
- **Process safety:** HAZOP, HAZID, QRA and fire and explosion risk
- **Industrial training:** job-oriented courses for graduates and professionals
- **Sales & service:** equipment supply and support, trained manpower and BPO
- **Disputes advisory:** forensic delay analysis and expert witness support

EPC project consultancy and project controls

Planning, controls and management for EPC projects, from scope definition to closeout. We run a full project controls function for you, or strengthen the team you already have.

PMC and EPCM

- **Owner's PMC:** contract strategy and packaging, tender evaluation, contractor supervision and progress verification
- **EPCM support:** engineering and procurement management, interface and change management, construction and commissioning oversight
- **PMO set-up:** organisation, roles and procedures, reporting cycles and KPIs, document control
- **Governance:** stage-gate and readiness reviews, independent health checks, lessons learned and close-out

Digital and AI-assisted controls

Automated logic and DCMA 14-point checks on every schedule update, live progress and cost dashboards, and AI-assisted review of correspondence and daily reports to flag change, delay and claim risks early. Client data stays in agreed, secure environments.

Project controls methods and tools

Area	What we deliver
Planning & scheduling	WBS, baselines, integrated master schedules, look-aheads and recovery schedules in Primavera P6
Cost & estimating	Estimates, budgets, cash-flow forecasts and trend management to AACE classification
Earned value	Progress rules, S-curves, CPI / SPI and forecast at completion
Schedule quality	Independent DCMA 14-point reviews of baselines and updates
Risk	Risk registers and Monte Carlo analysis for P50 / P80 dates and contingency
Reporting	Weekly and monthly reports, executive, lender and board dashboards

Basic, FEED and detailed engineering

Complete engineering packages, or extra capacity for your own team, by experienced EPC engineers working to current codes and standards.

Discipline	Typical deliverables
Process & chemical	Simulation, heat and material balances, PFDs, intelligent P&IDs, process data sheets and hydraulics (HYSYS, PRO II, HTRI)
Piping & layout	Plot plans, equipment and piping layouts, 3D models, isometrics with BOM, material and valve specifications
Piping stress	Stress analysis of critical lines and support design (CAESAR II, AutoPIPE)
Mechanical	Static equipment, tanks and spheres, rotating equipment specifications, vendor document review
Civil & structural	Foundations, RCC and steel structures, pipe racks, connection design, FEA (STAAD Pro, Tekla)
HVAC	Heat load calculations and HVAC design for plant buildings, living quarters and pharmaceutical facilities
Electrical	Load lists, single line diagrams, cable sizing, earthing and lighting, hazardous areas, power system studies (ETAP)
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

Structural and offshore

Fixed platforms, FPSOs and MOPUs (in-service and pre-service, fatigue, pushover, floatation and upending), onshore plants and brownfield modifications, and power and water structures including seismic design of water-retaining structures.

Codes include ASME, API 650 / 620 / 560, TEMA, NFPA, ASCE, BS / EN / Eurocode, DIN, IS, AWWA and PIP.

Process safety and risk

HAZOP, HAZID, what-if and bow-tie analysis, inherently safer design reviews, QRA, dispersion and fire and explosion risk assessment, run at the right stage with actions tracked to close-out.

Job-oriented training for EPC careers

Practical technical and management courses for engineering students and working professionals, taught by trainers with decades of oil & gas and energy-sector experience.

Engineering design

Process, piping, piping stress, electrical, instrumentation, mechanical equipment, civil, structural, HVAC, power plant and offshore engineering.

Project management

EPC and project management fundamentals, procurement, construction and quality management, risk management and module fabrication.

Site, operations & safety

Construction engineer and supervisor training, construction crafts, plant equipment, operation and maintenance, and HSE basics.

Who the courses are for

- **Fresh graduates** wanting a practical start in the EPC industry
- **Working professionals** moving into a new discipline, role or sector
- **Employers** wanting in-company programmes built around their projects and standards

Formats and duration

Live online classes, in-company training and blended programmes. Most weekday courses run 1.5 to 2 months at about 2 hours a day; weekend piping stress analysis runs 3.5 months. A certificate and experience letter are awarded on completion, with CV guidance, interview preparation and career counselling.

How we teach

- Live project work on real deliverables: P&IDs, layouts, isometrics, data sheets and schedules
- Case studies, tests, assignments and group discussions
- Courseware reviewed with trainers and industry clients

Software covered

Smart Plant 3D

PDS / PDMS

AutoCAD

MicroStation

CAESAR II

AutoPIPE

STAAD Pro

Tekla

ETAP

INtools

HYSYS

PRO II

HTRI

HAP

Primavera P6

Equipment supply, manpower and support services

We help marine, offshore and industrial clients select, source and maintain equipment, supply trained EPC manpower, and run outsourced support for technical businesses.

What we supply

- **Engines and generator sets:** Caterpillar marine propulsion engines and packaged generators, Cummins gensets from 60 to 500 kVA, Yanmar engines and marine alternators
- **Deck machinery:** hydraulic winches from 10 to 100 t, constant-tension winches, capstans, spooling machines and HPUs from 37 to 400 kW
- **Spare parts:** genuine Caterpillar and Cummins spares
- **Couplings and fittings:** expansion joints, Dresser-type couplings and Panama Canal fittings
- **Safety equipment:** PPE including MSA and NITTI products
- **Rental:** HPUs, generator sets and field equipment

Engineering and field services

- Equipment selection, integration, installation and commissioning support
- Automation, control and navigation systems, including calibration
- Servicing and repair of winches, HPUs and hydraulic systems
- Deslopping, tank cleaning and gas-freeing

Manpower supply

Engineers, 2D designers and 3D modellers in every discipline, part-time or full-time, at your office, at site or remotely, backed by our own training programmes.

Call centre & BPO

Inbound customer support, outbound sales and lead generation, run by a team that understands engineering customers.

Regions supported: Singapore, Malaysia, Indonesia, Thailand, the UAE, Saudi Arabia, India, Sri Lanka and Europe. References include winches and HPUs for Van Oord projects in Jakarta and Nantong, China.

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EPC Disputes Advisory

Independent forensic schedule analysis and expert witness support for delay and disruption claims on EPC and infrastructure projects. When a project ends up in arbitration, the schedule becomes evidence.

Services

- Forensic delay analysis to AACE 29R-03 methods
- Extension of time, prolongation, concurrency and disruption claims
- Schedule and cost audits, including DCMA 14-point
- Certified Expert Witness reports and testimony for arbitration
- Claim avoidance and project controls recovery

Who we work with

Owners, EPC and EPCM contractors, legal counsel, lenders and insurers on oil & gas, LNG, refining, petrochemical, power, pipeline and infrastructure projects.

Credentials

Led by Sumer Jain: Chartered Engineer (India), AACE Certified Cost Professional, EVMS certified and Certified Expert Witness (High Value).

Memberships include CIArb, SCL, SIArb, AIAC, HKIAC, AACE International and FIDIC (affiliate).

Flagship engagements

Project	Outcome
Chevron Pascagoula Refinery, USA (US\$1.4B)	Time impact analyses separating owner changes from contractor inefficiency
OQ Oman Strategic Fuel Reserve (US\$1.3B)	Head of Project Controls, 67-person team in five countries
GAIL Pata Petrochemical, India (US\$304M)	65 days of float protected; about US\$1.25M of claims resolved or avoided
Reliance Jamnagar Refinery	Delay recovered from 6 months to 25 days

Methods

Windows analysis

Time impact analysis

Collapsed as-built

As-planned vs as-built

DCMA 14-point

Monte Carlo risk

Engagements by appointment under a signed mutual NDA · sumer@epcdisputesadvisory.com · epcdisputesadvisory.com

EXPERIENCE

Megaprojects behind our team

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
PDH unit, Houston	Detailed engineering, 500,000 t/y propylene
Ichthys LNG, Pluto LNG, Petronet Dahej LNG	Engineering support, FEED and LNG storage engineering
Kakinada–Dadri and Surat–Paradip pipelines, India	DFR and basic engineering, 1,600 km and 1,490 km
Kuwait Oil Company, North Kuwait	High-pressure gas injection pipelines
Total Egina FPSO; MODEC MV-24 FPSO	Hull, topside and gas turbine generator module engineering
BP Mad Dog; Shell Bonga South West Aparo	Engineering support
Cairn India satellite oil fields	FEED for quick production facility, Energy Total as engineering contractor
Tata Fertilizers, Babrala	1,350 t/d ammonia and 2 × 1,125 t/d urea

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

How we work with you

01

Enquiry

Tell us about the project and the help you need. NDAs signed where required.

02

Scoping

Agree scope, deliverables, team, timeline and commercial basis.

03

Mobilisation

Specialists join you in your office, at site or remotely.

04

Delivery

Regular reporting and reviews, with early warnings.

05

Handover

Deliverables, lessons learned and knowledge transfer.

Engagements on a **lump-sum** basis for defined deliverables, **time and materials** for embedded specialists, or **retained advisory** for senior advice and health checks throughout the project.

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.

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Detailed brochures

Download our full company profile, training programmes, equipment brochure and EPC Disputes Advisory presentation at energytotalgroup.com.