



THE
**Energy
Consulting
Practice**

Thematic Areas



THE
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Service Offerings

LNG



ENERGY VALUATION & DEAL ECONOMICS

Discounted Cash Flow (DCF) and Net Asset Value (NAV) valuation of energy companies and assets

LNG project & Equity Economics

Farm-in/farm-out valuation

Government take and fiscal sensitivity analysis

Fairness and value for money opinions

ENERGY POLICY, FISCAL & REGULATORY ADVISORY

Fiscal analysis of petroleum & gas legislation

PSC, JV and cost recovery framework reviews

LNG equity and lifting rights policy design

Legislative and parliamentary briefing

Regulatory impact assessments

LNG & GAS COMMERCIAL ADVISORY

LNG Share Purchase Agreement (SPA) commercial reviews

Pricing Formula Analysis (JCC, TTF, Henry Hub)

Equity LNG Vs Offtake dispute analysis

Domestic Gas Pricing frameworks

LNG shipping and logistics economics

ENERGY TAXATION & DISPUTE ECONOMICS

Oil and Gas Tax modeling

LNG transfer pricing analysis

Ring fencing cost allocation audits

Quantum of damages modeling

Arbitration & expert support

MARKET INTELLIGENCE & STRATEGIC RESEARCH

LNG market outlooks

Fiscal benchmarking

Energy risk assessments

Scenario and stress testing



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MODULAR & COMMERCIAL REFINERY



PROJECT ECONOMICS & INVESTMENT ADVISORY

Feasibility studies (greenfield and brownfield)
CAPEX/OPEX benchmarking for modular refinery units
IRR, NPV, payback, sensitivity and scenario modeling
Feedstock price risk analysis (crude, condensate, heavy fuel)
Phased development economics (10 KBPD—30 KBPD)
Investor Pitch Decks and Financial Information Memorandum (FIMs)
Lender Due Diligence Support

FEEDSTOCK STRATEGY & CRUDE SUPPLY ADVISORY

Crude sourcing strategy (Domestic allocation Vs market purchase)
Term Vs Spot crude economics
Crude Assay analysis and Yield Optimization
Condensate Vs crude-take-off economics
Feedstock logistics modeling (pipelines, trucking, barging)
Crude pricing formulas and supply contract advisory
Economic impact of crude theft, losses and disruptions

PRODUCT SLATE & MARKET OPTIMIZATION

Optimal product slate modeling (PMS, AGO, DPK, ATK, HFO, LPG)
Domestic Vs export product market analysis
Price forecasting and margin modeling
Product demand supply gap analysis (national and regional)
Import parity pricing Vs refinery gate pricing
Product blending economics
Seasonal demand optimization

COMMERCIAL STRATEGY & OFFTAKE STRUCTURING

Offtake agreement structuring (Domestic marketers, bulk buyers)
Product pricing formulas and escalation clauses
Minimum volume commitment analysis
Take or Pay Vs best effort contracts
Refinery gate pricing frameworks
Integration with Downstream distribution networks
Commercial risk allocation methods

REGULATORY, FISCAL & POLICY ADVISORY

Licensing Economics
Petroleum Industry Act fiscal impact modeling
Taxation Advisory (CIT, VAT, Excise, Custom Duties)
Incentive analysis (Pioneer Status, Free Trade Zone)
Domestic Crude Supply Obligation Economics
Price deregulation impact assessments
Environmental compliance cost modeling

CRUDE SUPPLY & REFINERY FEEDSTOCK STRATEGY

Domestic crude supply obligation economics
Crude pricing formula advisory
Contract structuring (term Vs spot)
Crude quality compatibility analysis
Supply disruption risk modeling
FX exposure and crude payment structures

INFRASTRUCTURE & LOGISTICS ECONOMICS

Pipeline tariff modeling
Depot storage pricing
Marine terminal economics
Jetty & trucking cost optimization
Refinery evacuation bottleneck studies
Integrated logistics master planning

MARKET INTELLIGENCE AND STRATEGIC STUDIES

Regional refining capacity outlook
Product demand-supply gap analysis
Import dependency studies
Competitive benchmarking
Refining hub development studies
National refining roadmap advisory

DISPUTE SUPPORT & FORENSIC ECONOMICS

Refinery margin disputes
Transfer pricing disputes
Contract performance analysis
Loss of profit quantification
Regulatory penalty economic assessments

PUBLIC SECTOR & NOC ADVISORY

National refinery strategy design
NOC refinery portfolio optimization
Privatization and concession economics

Public-private partnership structuring
Refinery rehabilitation economic reviews
Policy alignment with PIA-type frameworks



GAS AGGREGATION & PROCESSING



GAS AGGREGATION ECONOMICS & MARKET DESIGN

Aggregation models (virtual hubs, anchor-buyer models, aggregator SPVs)

Optimal gas pooling strategies (volume, quality, contract tenor)

Cost of service Vs market-based aggregation pricing

Demand aggregation for power, fertilizer, LPG and CNG

Gas balancing, line pack economics, and nomination risk

Hub Vs bilateral contracting economics

Transitional pricing frameworks for immature markets

GAS AGGREGATION UNDER THE PIA (COMMERCIAL & REGULATORY GAPS)

Design of PIA compliant gas aggregation models

Economic allocation of risk (volume shortfall, producer default, off-taker non-payment)

Aggregator margin justification (Cost reflective margins)

Aggregation Vs flare commercialization economics (comparing penalties Vs aggregation investment)

DOMESTIC GAS PRICING & DGSO ECONOMICS

DGSO compliance economics (cost of supplying domestic gas Vs export alternatives)

Domestic gas price adequacy studies (producer netbacks under regulated prices)

Price transition frameworks (gradual migration to willing-buyer, willing seller)

Economic cost of price suppression (impact on gas processing investment & supply reliability)

GAS PROCESSING PLANT ECONOMICS UNDER PIA INCENTIVES

Economic valuation of PIA gas incentives (Tax Holidays, Capital allowance treatment)

Modular Vs centralized gas processing (alignment with gas flare commercialization rules)

Tolling Vs ownership economics (especially for third party processing plants)

Processing tariff defensibility

GAS FLARING, PROCESSING & COMMERCIALIZATION ECONOMICS

Flare capture Vs penalty optimization

Economics of small-scale processing (LPG extraction, CNG/Mini-LNG, FLNG)

Aggregation of flare gas across operators

Government revenue maximization analysis (Penalties Vs commercial outcomes)

MIDSTREAM LICENSING & TARIFF REGULATION

Cost of service tariff modeling

Entry-Exit tariff systems

Tariff reset and review economics

DOMESTIC GAS COMMERCIALIZATION & POWER SECTOR INTERFACE

Gas to Power bankability analysis

Payment security economics (Guarantees, escrow, partial risk guarantees)

Alternative off taker strategies (Industrial cluster Vs Grid Power)

Cost of non-payment modeling (embedded in gas pricing and processing tariffs)

INDIGENOUS PRODUCER GAS MONETIZATION UNDER THE PIA

Gas monetization strategies (Aggregation participation, third party processing)

Joint gas infrastructure economics

Financing ready gas business plans

Reserve to revenue conversion modeling

FISCAL & GOVERNMENT REVENUE ADVISORY

Gas revenue forecasting (royalties, taxes, processing fees)

Economic impact of incentives

Gas Vs crude substitution analysis

State and host community gas economics



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UPSTREAM EXPLORATION & PRODUCTION



FIELD & ASSET ECONOMICS

Full cycle project economics (exploration to abandonment)

Field development plan (FDP) economic validation

Breakeven price and cost curve analysis

Incremental economics (infill drilling, sidetracks, recompletions)

Abandonment & decommissioning (A&D) cost modeling

RESERVE, RESOURCES & PRODUCTION FORECASTING

Economic validation of reserves (1P/2P/3P) and contingent resources

Decline curve analysis and type curve economics

Estimated ultimate recovery (EUR) modeling

Economic cut-off analysis and reserve classification

Sensitivity of reserves to price, fiscal terms, and OPEX

FISCAL & PETROLEUM ECONOMICS

Fiscal regime modeling (royalties, taxes, PSCs, cost recovery)

Petroleum Industry Act (PIA) impact analysis

Government take Vs contractor take analysis

Comparative fiscal benchmarking across basins/countries

Scenario analysis for fiscal instability and policy changes

VALUATION AND TRANSACTIONS ADVISORY

Asset and portfolio valuation (DCF, NAV, real options)

Farm in/farm out economic analysis

EXPLORATION ECONOMICS AND RISK ANALYSIS

Prospect and play based economic analysis

Geological risk and chance of success integration

Risked Vs unrisked NPV and EMV analysis

Portfolio optimization across exploration assets

Economic screening of seismic acquisition programs

COST STRUCTURE AND EFFICIENCY ANALYSIS

Benchmarking drilling and completion costs

OPEX optimization and lifting costs analysis

Contract economics (rigs, FPSOs, service contracts)

Local content cost implications

Inflation and FX risk on upstream costs structures

PRODUCTION SHARING AND JV ECONOMICS

Joint venture cash call modeling

Production sharing contract (PSC) entitlement modeling

Equity lifting and cost oil/profit oil allocation

Carried interest and back-in rights analysis

Host government participation economics

FINANCING & CAPITAL STRUCTURING

Project finance and reserve-based lending (RBL) economics

Debt service coverage and cash waterfall modeling

Economic feasibility for marginal field financing

Investor IRR Vs sponsor return reconciliation

Sensitivity of capital structure to price volatility

Contact Information

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