





We are a global advisory firm with extensive experience in providing strategic advice in Road to FID for LNG terminals

Overview of our Road to FID value proposition for LNG terminals

Overview of FTI Consulting

- FTI Consulting is the #1 global expert-led firm for organizations facing crisis and transformation
- Each practice area of FTI Consulting includes leading experts defined by their depth of knowledge and track record of delivering client value when it matters most



Employees worldwide





8,000+

33

Countries & territories

\$7.7 bn

Market capitalization⁽¹⁾

The FTI Consulting Energy Team



Our team of economists, former industry practitioners, regulators and diverse professional expertise in energy, finance and strategy brings rationality to economic decisions in the energy sector

We provide **end-to-end strategic Road to FID advisory**, leveraging three specific **differentiators**:



- Direct hands-on experience working for LNG terminals
- 2. Technical support from reputable partners
- Unparalleled expertise in economic and financial analysis applied to the energy sector

Our Road to FID Advisory Capabilities at a Glance

Regulatory and market

 We have a deep understanding of economic regulations applicable to LNG terminals and know how establish a clear view of their functioning

Commercial and Operational

 We have an extensive track record supporting clients to clarify economic, commercial, and operational conditions for LNG terminals to build well-developed business cases

Project Finance, Capital Raising, and Tax

We bring capabilities in project finance to help structure project contractual frameworks, raise equity and debt and optimize the capital structure.
We can also access specialized tax expertise

Non-Technical Risks and Reputation

FTI Consulting strategic communication team is experienced in proactively identifying and mitigating non-technical risks and managing reputation to ensure the success of the project

Technical and Engineering

 Our technical partnerships with LNG terminal operators allow us to solve technical & engineering questions seamlessly

Transverse actions (PMO)

FTI Consulting experts are experienced in coordinating FID-related activities to ensure alignment between workstreams and stakeholders while providing strategic oversight

Results



De-risk the Road to FID



Accelerate the Road to FID



The Road to FID is a systematic process with a series of stages and evaluations used to assess and ultimately finance LNG terminal projects

What is the Road to FID?

Lower cost of alterations in the project

Higher costs of alterations in the project

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	Concept definition	Pre-FEED	FEED	FID	EPC
About each step	 Initial exploration of project idea and potential viability Preliminary assessment of project risks and opportunities 	 More detailed technical and economic analysis Refining scope Identifying equipment and technology needs 	 Detailed engineering and design work Comprehensive cost and schedule estimates Detailed risk assessment and mitigation plan 	 Comprehensive review of all project aspects Final economic analysis and risk assessment Project approval/refusal 	 Design and engineering work Procurement of all necessary equipment and materials Physical construction
Key decisions	 Whether concept merits further investigation and resources Technical options to explore Initial project scope 	 Selection of preferred technical concept Go/no-go decision for progressing to FEED stage Preliminary budget and schedule estimates 	 Finalization of technical specifications Selection of key contractors and suppliers Refinement of project execution strategy 	 Whether to proceed with full project implementation Approval of budget and schedule Commitment of resources 	 Awarding of major contracts
Illustrative deliverables	 Concept study report Preliminary economic assessment Initial risk assessment 	 Pre-FEED study report Updated economic model Preliminary project execution plan 	 FEED study report Benchmark of relevant regulatory frameworks and regulatory regime design Capacity allocation considerations Contractual architecture Equity sale and project finance roadmap 	 Draft Heads of Agreements (Business Position Paper, Operational Position Paper, Flow Model, Economic Model) Vessel lease or buy strategy Development and investment strategy Investor outreach strategy 	 Detailed design documents Procurement contracts and purchase orders Construction progress reports

Notes: FEED = Front End Engineering; FID = Final Investment Decision; EPC = Engineering, Procurement, and Construction.



Navigating the road to FID carries potential risks – several challenges must be addressed before reaching a final investment decision

What are the challenges typically faced?

Strategic hurdles on the path to FID: Key LNG terminal development challenges

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Risk: Lack of stakeholder and reputation management plan

Impact: May make the project vulnerable to external disruption at later stages of development.

Risk: Failure to obtain approval from regulatory authorities or policymakers on the most probable regulatory framework

Impact: Regulatory framework is not suited to the development of the LNG terminal

Risk: Not safeguarding the strategic advantage against competitors due to a lack of anticipation

Impact: Being outpaced by competitors while managing unplanned interdependencies and not having the right answer/material at the right time

Risk: Lack of commercial attractiveness of the product Impact: The terminal cannot secure enough long-term capacity; hence cannot comfort lenders

Risk: Not defining the right financing structure, adequate amount and securing the debt needed

Impact: Not finding appropriate financing, or financing at all from lenders unwilling to finance the Project (or are not willing to provide financing at an acceptable cost)

Risk: Failure to properly and precisely design the commercial terms

LNG terminal developer

Impact: Future litigation with stakeholders due to contractual provisions being not identified and/or formalized, laying ground for future conflicts with other stakeholders

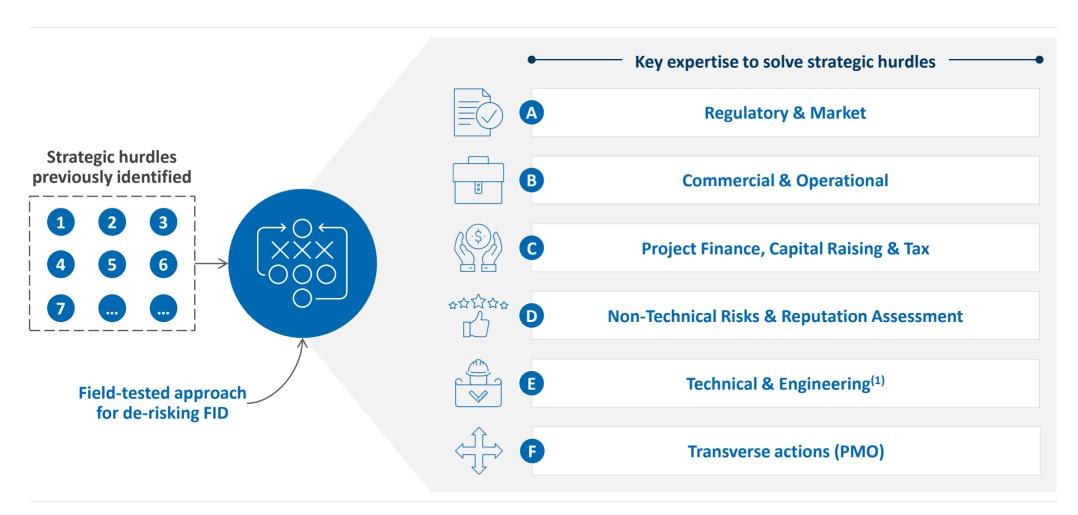
Risk: Sub-optimal technical sizing of storage Impact: Either sunk costs or stranded assets if the terminal is oversized, or regasification demand not addressed and satisfied, i.e., revenues left on the table, if the terminal is undersized

Notes: The list of risks is non-exhaustive and for illustration purposes



Our field-tested six stage approach can help de-risk the Road to FID

How we make a difference: A 'one-stop shop' solving critical challenges along the way



lotes: (1) Expertise provided through collaboration with a specialized technical partner, not through internal resources



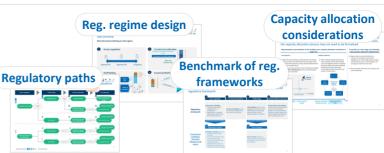
Gaining regulatory and market clarity, designing optimal commercial and operational model and raising capital

First three key components to de-risk the Road to FID



Regulatory & Market

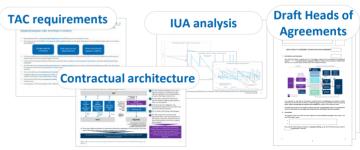
Aims to establish a clear view of the regulatory and market frameworks governing LNG terminals in different jurisdictions, and select the optimal one based on a project's characteristics, Regulatory paths following an assessment using pre-defined analytical dimensions aligned with the strategic objectives of the LNG developer and regulator





B Commercial & Operational

- Aims to clarify the economic, operational conditions, and targets for an LNG terminal, ensuring its viability
- This work is essential for approaching lenders and investors with a well-developed business case and assessing market interest





Project Finance, Capital Raising & Tax

- Aims to provide clients with **end-to-end project finance expertise**:
 - Structure institutional and contractual frameworks of projects
 - Structuring the optimal capital structure
 - Mobilizing carbon credits and climate finance
 - Project Equity and Debt raising
- To enhance our offering, our London teams provide specialized tax and fiscal expertise



lotes: TAC = Terminal User Access Code; IUA = Inter-User Agreement; (1) Expertise provided through collaboration with a specialized technical partner, not through internal resources



Identifying and mitigating non-technical risks, providing technical support and coordination advice

Final three key components to de-risk the Road to FID



Non-Technical
Risks &
Reputation
Assessment

- Led by FTI Strategic Communications Practice, this component involves proactively identifying and managing non-technical risks (environmental, social governance, community and reputational) that can significantly impact a project's feasibility, acceptance, and long-term viability
- Failure to do so can lead to delays, increased costs, legal challenges and even project rejection





Technical & Engineering⁽¹⁾

- With a technical partner, this scope may involve:
 - Back-office support from experts directly involved in LNG terminal management
 - Design review and analysis of potential improvements of schedule, performance and reliability
 - Contractual expertise to protect the operator during the handover of the terminal from contractors to the owners









Transverse actions (PMO)

- This scope involves the central coordination for all FID-related activities to ensure alignment between various workstreams, prepare deliverables within timelines, and facilitating effective communication among all stakeholders involved
- It also involves providing strategic oversight and quality assurance by continuously monitoring project risks and updating the mitigation strategy



Notes: TAC = Terminal User Access Code; IUA = Inter-User Agreement



Our approach has accelerated projects, reducing time-to-FID by approximately 25% for a recent client

What was the outcome?

Accelerated road to FID from a real engagement



How we do it



Optimizing the critical path: we streamline the FID process by carefully sequencing and parallelizing key activities to compress timelines



Leveraging global and comprehensive expertise: we deploy a network of specialists across relevant domains to identify bottlenecks early, create mitigation strategies, and provide support at critical junctures

Key benefits of an accelerated timeline



Expedited energy security: accelerating the road to FID strengthens a country's energy supply sooner, maximizing the number of procurement options and reducing dependencies to one supplier



Better foresight: a faster progression to FID allows clients to secure offtake agreements and financing ahead of market shifts



Better project economics: shortening pre-FID timelines allow for earlier revenue generation



Asian Liquified Natural Gas ('LNG') terminal developer

FTI Consulting were appointed as their strategic and expert advisory board to design, de-risk and support in the journey to FID for the new asset.

The client was exploring the development of a regasification terminal and preparing to transition within a liberalised natural gas market. The client had already undertaken prefeasibility studies and secured board approval for a project timeline with ambitious commissioning milestones.

To support them in their goals, the client looked to FTI Consulting to join a strategic advisory board composed of experts in LNG Regulation, LNG economics and commercials, as well as project finance to ensure overall consistency across the project and provide the necessary expertise to derisk and accelerate the road to FID.

OUR IMPACT



By providing clarity and understanding on the best regulatory framework, the client was able to advocate to State stakeholders and the regulator, serving both the national agenda and the client's development needs.



After being equipped with compelling business and economic models, detailing the design of the tariff structure and target operating model, the client had a strong foundation to support its discussions with bankers and the development of commercial contracts.



Coupled with fit-for-purpose financing options, the client was able to secure the financing strategy of the project.

OUR ROLE

FTI Consulting was appointed as strategic advisory by an Asian utility to design and conduct the road to FID for a new LNG regasification terminal.

FTI Consulting delivered in the first phase, three work packages on regulatory framework design, business modelling and benchmark of financing structures.

- Benchmarking existing and probable regulatory and commercial frameworks from neighbouring and European countries, our experts provided a thorough assessment for the client to be able to choose the most optimal regulatory and commercial framework.
- Our experts created a business model to strengthen the business case and assess market interest, as well as developing an economic model to design the tariff structure. The team then further elaborated the target operating model, serving as the foundational framework for commercial contract components.
- Our team analysed financing options and developed case studies to provide an in-depth analysis of shortlisted comparable assets and identify key relevant financing features for the project.



We have carried out a regulatory benchmark study of LNG terminals in selected regions to identify the most optimal framework for the project

Regulatory and Market

Illustration: Benchmark of regulatory frameworks in Europe and Asia



Comments

- For an LNG terminal developer, we have carried out an extensive, multi-regional regulatory benchmark study of LNG terminals aiming to establish a clear view of the regulatory and market frameworks governing LNG terminals in different jurisdictions
- The study compared regulatory frameworks applicable to LNG terminals in selected regions across four main analytical dimensions:
 - 1 Access regulation
 - 2 Cost allocation
 - 3 Tariff-setting
 - 4 Revenue allocation
- Based on the outcome of this study, we have identified the most optimal regulatory framework for the LNG project, in line with strategic objectives from the LNG developer and the regulator





We defined a comprehensive commercial and operational framework to build a robust business case before investor outreach

Commercial & Operational

Illustration: Business Position Paper, Operational Position Paper, Flow Model, Economic Model, Draft Term Sheet and Vessel Buy or Lease Strategy



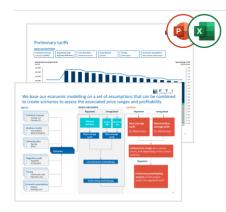
1 Business Position Paper



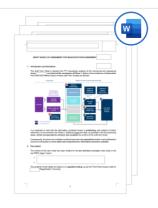
2 Operational Position Paper



3 Flow Model



4 Economic Model



Draft Term Sheet



Wessel Lease or Buy Commercial Strategy

Comments

- Before engaging lenders and investors, we first needed to clarify its commercial and operational conditions
- Our approach was focused to strengthen the business case and assess market interest, leading to the preparation of six main deliverables:
- **1** Business Position Paper outlining the terminal's value proposition
- 2 Operational Position Paper setting out the optimal operational framework
- **3 Flow model** to optimize storage based on pre-determined variables
- 4 Economic model to set expected tariffs based on regulatory, technical and commercial assumptions
- **5 Draft Term Sheet** outlining commercial terms and conditions
- 6 Vessel Lease or Buy Strategy to optimize acquisition decisions

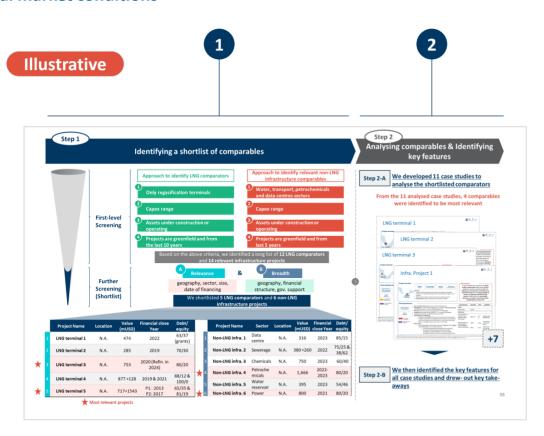




We supported our client in benchmarking financing options and success stories for LNG regasification terminals

Project Finance, Capital Raising & Tax

Illustration: Benchmarking and financing structures and market research on local financial market conditions



Comments

- As a first step, towards securing financing, we have supported our client in benchmarking financing options applicable to LNG terminals
- 1 First, we made a shortlist of comparable LNG terminals and non-LNG infrastructure based on a two-step screening process:
 - The first-level screening aims to identify the universe of comparable assets by filtering for key criteria such as asset type, CAPEX range, status (under construction or operating), and start of commercial operations
 - The second-level screening aims to focus on the most relevant assets by filtering for relevance (geography, sector...) and breadth (financial structure, government support...)
- 2 Then we prepared a set of case studies to provide an in-depth analysis of shortlisted assets



Discover Your Team

Our Senior Gas/LNG Experts who already led and delivered Road to FID mandates



Emmanuel Grand Senior Managing Director, FTI Consulting

- Energy economist with over 17 years of advisory experience in the energy and infrastructure sector, specializing in matters related to contracts, markets, and regulations
- Advised on regulatory schemes in over 35 countries
- Supported energy & infrastructure contracts negotiation of over \$100 billion value combined
- Selected as independent expert in more than 20 energy disputes, with damages of up to \$5 billion



Stéphane Woerther Managing Director, FTI Consulting

- More than 20 years of experience developing a deep expertise in economic and financial advisory in the energy and climate finance areas, gained across top global institutions, including Lazard, Engie and NASA
- Specializing in structuring, financing, restructuring of energy infrastructure projects, including renewable IPP projects, in developed and emerging markets



Sahil Agarwal
Managing Director, FTI Consulting

- More than 12 years' experience advising regulators, governments, utility companies and investors on regulatory and infrastructure finance issues including in relation to new LNG assets
- He advised a Middle Eastern Government on 11 MTPA LNG Strategy and conducted a financial feasibility study for a UK energy major on gas to hydrogen storage conversion



Grégoire Saison Senior Director FTI Consulting

- More than 12 years of experience in advising global utilities on their strategic roadmaps and asset management issues, including several new LNG value chains
- Advised the development of two LNG Terminals, leading the business, economic and operating modelling to de-risk and accelerate road to Final Investment Decision for an Asian Terminal Developer, and assessing the value for security of supply to secure essential State support.
- Advised the transactions for more than 40 LNG carriers.



Andrew Chin Senior Director, FTI Consulting

- 8 years of experience advising companies and regulators on economic regulation in Energy, across a range of Asian geographies
- Reviewed regulatory position paper for an Asian LNG terminal developer, advised a gas storage company on its regulatory strategy, assessed potential conflicts of interests in system operator arrangements for a regulator and explored options for alternative system operator structures



Mehdi Aid
Director, FTI Consulting

- 11 years of experience, including three years in the LNG Business Unit of Engie; advised more than 10 LNG players on their new projects and contracts
- For an LNG terminal developer, he drafted the Terminal Access Code and the related clauses in Terminal Use Agreements that fully defined the functioning of the service for the Users
- For an Asian utility, Mehdi designed the commercial and regulatory frameworks for the small-scale LNG activities of a new FSRU in Asia, after conducting an international benchmark on relevant applicable frameworks

Experts with Impact™

