



EARLY-STAGE PARTNER OPPORTUNITY

Small modular LNG

Make remote gas transportable

A partnership concept for assessing modular natural gas liquefaction where pipeline transport may be difficult - including selected remote or associated-gas opportunities.

~ -162 C

Approximate temperature used to liquefy natural gas.

~ 600x

Approximate volume reduction when natural gas is liquefied.

What the concept may address

- Gas with no practical pipeline route or a remote end market.
- Associated gas where utilization options merit screening against the real flare baseline.
- Potential small-scale LNG delivery by road or other suitable logistics.

A site-specific value chain

A modular liquefaction unit is one part of an integrated gas, logistics and offtake solution.

01

Feed gas

Composition, pressure, flow and variation

02

Pretreatment

Remove components required by process design

03

Liquefaction

Refrigeration process produces cryogenic LNG

04

Storage & delivery

Manage LNG, boil-off, loading and use

No plant size or performance is quoted. Capacity, modularity, power, product quality and economics require qualified engineering using site data.

From concept to a site-specific opportunity

A first screen can show whether a qualified feasibility study is justified and which partners need to be involved.

First-screening data

- **Gas profile:** average/minimum/peak flow, variability, decline, pressure and temperature.
- **Composition:** CO₂, H₂S, nitrogen, water, heavy hydrocarbons and mercury where known.
- **Operating context:** uptime, existing separation/compression/treatment and available power.
- **Site:** location, access, plot space, utilities and environmental conditions.
- **Product route:** demand, storage, loading, transport distance, receiving facility and permits.

Partners to bring together

Technology & engineering

Liquefaction process, pretreatment, packaged equipment, controls, commissioning and lifecycle support.

Gas owner & site operator

Feed data, site access, operating requirements, permits and a defined utilization need.

Market & finance

Offtake, storage, loading, transport, receiving infrastructure and project finance.

Proposed IMEX-Solutions contribution

Help organize the initial opportunity screen, connect relevant industrial and market stakeholders, and coordinate data for a qualified feasibility study. Process design, guarantees, permitting and construction remain with selected qualified partners.

Safety & environmental integrity

Assess cryogenic and flammable-gas hazards, methane leakage, liquefaction energy, power source, boil-off handling, transport and the realistic baseline. Capturing gas alone does not prove an emissions benefit.

Discuss a gas source, site or technology partnership

info@imex-solutions.nl | imex-solutions.com

Technical background: U.S. DOE, LNG Basics (energy.gov/hgeo/articles/lng-basics); IEA, Innovation Gaps - Fuel Supply (iea.org/reports/innovation-gaps/fuel-supply); IEA, Assessing Emissions from LNG Supply and Abatement Options. Project design and permitting are jurisdiction-specific.