



Mini LNG Transport Solution Overview



Large infrastructure requirements
limit smaller markets from accessing
the benefits of LNG.

The question is...

“How do we access small and isolated energy markets not connected to existing infrastructure?”

Demand for natural gas is increasing and existing LNG ships or gas pipeline infrastructure is focused towards large scale consumers. Small and isolated energy markets are not connected to existing infrastructure and cannot reap the benefits of using more LNG as part of their energy mix.

Untapped markets

Smaller Island archipelagos such as in the Mediterranean, Indonesia, the Caribbean and the Pacific, to name a few, remain as untapped markets to the LNG industry.

- Connecting to existing infrastructure is not economically viable
- Traditional methods of shipping can't get to them
- No on-site off-loading infrastructure exists
- Harbours are too shallow
- Risk – financial, investment, safety

Isolated energy centres are therefore utilising more expensive diesel oil or more polluting heavy fuel oil. Apart from this being both polluting and expensive, it is unsustainable.



Our offer...

lovenergy has designed an innovative shipping solution that enables LNG suppliers to **build or retrofit** smaller ships, using **proven technology**, that can reach these previously untapped markets at **low cost**

Our unique design

Designed in conjunction with Lloyds of London and is classified as a dangerous load, therefore cheaper to build and to insure than a standard gas container ship.

Our existing, proven technology is tried and tested:

- Standard loading and offloading system to either land based or floating re-gas facilities
- Low cost to build the ship as it does not need a second hull
- Cryogenic tanks are mounted on open deck so easily accessible
- Unused hull can be used to transport other cargo
- Natural boil off (NBO) can be used to propel a ship with multi fuel power units

The ship has three key components that simplify the design...

Innovative ship design



-  1. Standard deck cargo ship
-  2. Independent cryogenic LNG tanks on open deck
-  3. Loading /off-loading manifold system

BENEFITS TO CLIENTS



Supply flexibility



Scalability -
Multiple ships



Access to new
customers



No pipelines



Lower infrastructure
& shipping costs



Cost effective new
ships or retrofit
existing ships



Short turnaround
time in obtaining fuel

lovenenergy cost model (estimated)



Example: Based on 3000 tonnes of LNG

Our design (new build) \$22-25m approx.

Our design (retrofit) \$17-20m approx.

Gas ship equivalent \$40-50m approx.

How can we help you?

Are you a shipping or energy company looking for new markets?

Are you a coastal or island power generating company and are interested in the economic and environmental advantages of LNG?

Do you have an mini LNG shipping requirement?

Or are you just interested in talking to us about our technology?

Please do not hesitate to get in touch.





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