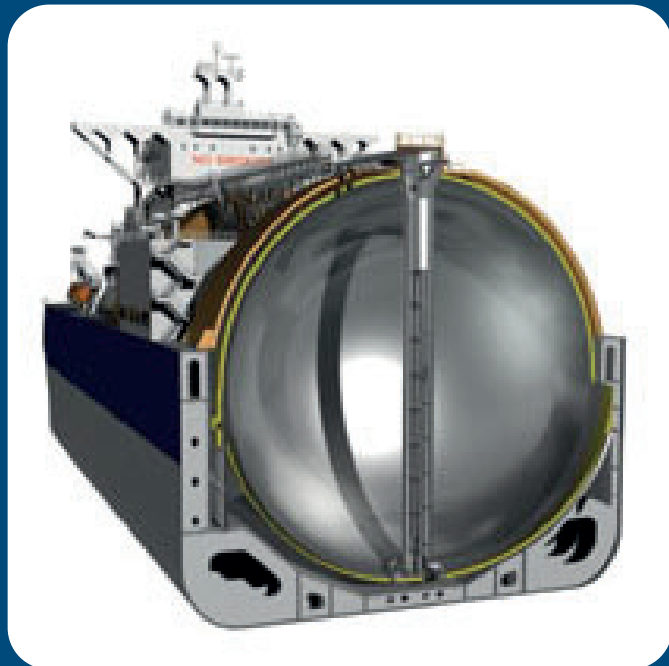


# Types of LNG Containment Systems

The Liquefied Natural Gas (LNG) carriers are designed, constructed and equipped to safely carry cryogenic LNG stored at a minimum temperature of  $-163^{\circ}\text{C}$  and atmospheric pressure with density of  $500 \text{ kg/m}^3$ .

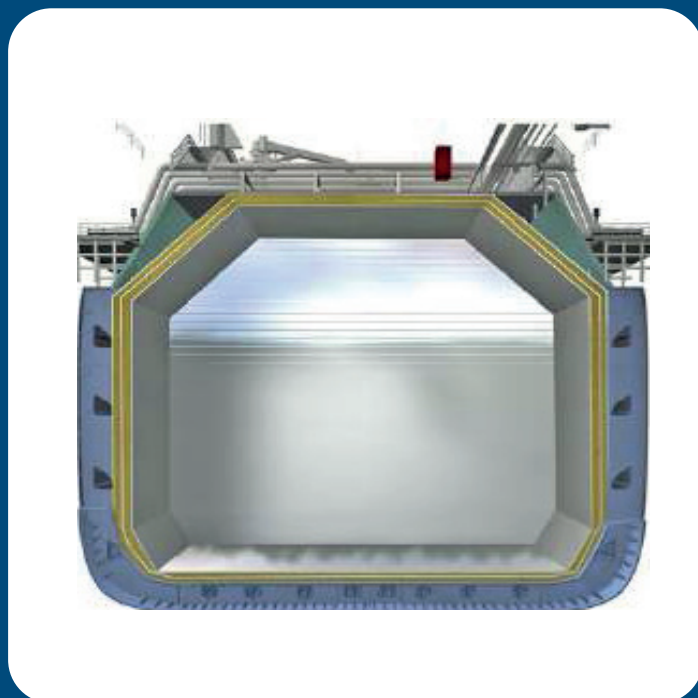
MOSS and membrane type tank systems are accepted worldwide as LNG containment systems, with each types having its own distinctive advantages.



## MOSS-TYPE

### The Independent Self Supporting (Type B) Tank System

- Robust tank construction contribute to operational flexibility
- Toughness against collision/ stranding
- No filling limit restriction



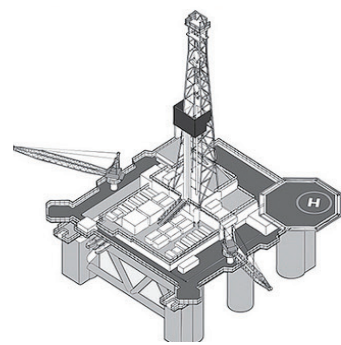
## MEMBRANE-TYPE

### The Integrated Tank System

- Flat deck - easy maintenance, low windage area, maneuverability
- Low Gross Registered Tonne (GRT) - port charges, tug assistance, mooring equipment
- Fast cooling down operation

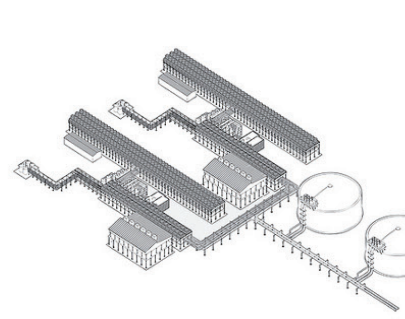
## The LNG Chain

### Gas Production



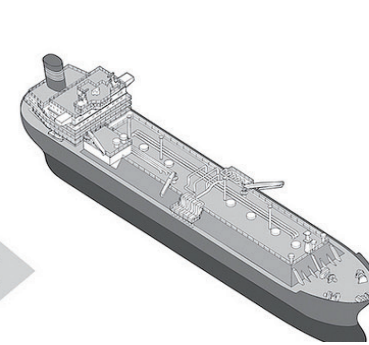
Onshore and offshore production facilities collect gas from drilling wells. It is then transported via pipeline to liquefaction facilities

### Liquefaction



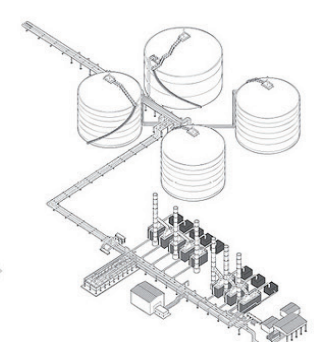
A liquefaction facility cools gas to  $-160^{\circ}\text{C}$ , condensing it to 1/600 of its volume, allowing for economical transportation

### Shipping



LNG is loaded onto specially built ships designed to hold super-cooled gas. LNG can be transported to any country in the world with a regasification terminal

### Regasification



LNG is warmed at an onshore or floating regasification facility, converting it back to gas for distribution

#### References

[http://central.oak.go.kr/journalist/journaldetail.do?sessionId=F0D575401451D5AAE88145E652D31E607&article\\_seq=13360&tabname=abst&resource\\_seq=-1&keywords=null](http://central.oak.go.kr/journalist/journaldetail.do?sessionId=F0D575401451D5AAE88145E652D31E607&article_seq=13360&tabname=abst&resource_seq=-1&keywords=null)  
<http://www.maritimeinfo.org/en/Why-Maritime/Shipping-Facts>  
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