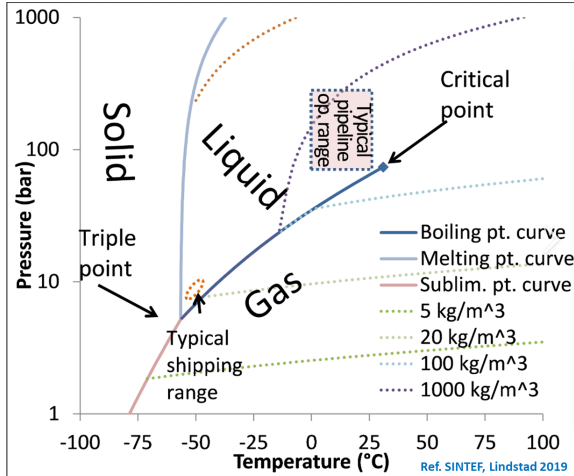


ezNG[®] Cellular Arrays

CCS & CCUS Initiatives Need Simple, Cost-Effective Liquefied CO₂ Storage/Transport

Large volumes of CO₂ are best stored for transport as a cold liquid under low pressure (e.g., 8-10bar)



- Pressure-competent tanks allow transport by ship, barge, or rail to where CO₂ is needed or can be safely, permanently stored
- Patented cellular form limits wall thickness while allowing pressurized storage and long hold times
- Innovative use of proven materials and technology (e.g., takes advantage of inherent ship hull strength)
- Conceived to fit efficiently within ship or barge hulls for 15,000 to 150,000 m³ LCO₂ cargo capacity

Conceived to store “Pressurized LNG” (PLNG):

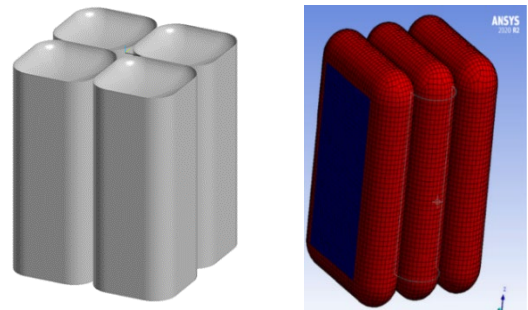
- ExxonMobil’s extensive R&D confirmed that LNG requires almost twice as much energy as PLNG... while PLNG facilities are much simpler, half the cost, and ~1/3 the size (ref. Bowen et al, GasTech 2005)
- Re-gassing is cheaper and uses less energy since PLNG is stored 80-90°F (~50°C) warmer than LNG
- ezNG’s patented cellular storage for PLNG can also be used to store conventional LNG without boil-off

Opportunities for ezNG[®] storage solutions:

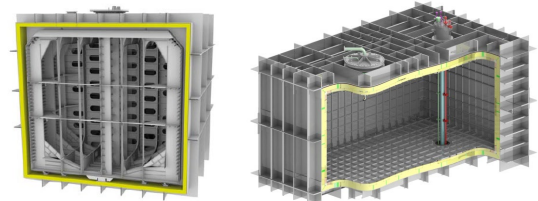
- Natural gas demand continues to grow as a key energy transition fuel but a switch from LNG to PLNG is necessary to greatly reduce GHG emissions
- Existing Pipeline infrastructure is difficult to expand due to regulations and NIMBY objections

- Reserve supply for peaking demands (or supply interruptions) where supply problems exist also enables trading and local retail sales
- Fleets attempting to meet IMO emissions criteria want pressure-competent tanks
- Large volume LCO₂ Carriers are needed for international CCS and CCUS initiatives

Simple smooth-walled “cans” or “flasks” fit tightly within insulated ships’ holds or concrete “vaults” onshore to maximize use of available space



Smooth cells versus complex prismatic structures or thick-walled cylindrical tanks that waste space



Low pressure options - LNT Fuel Box™ & GTT Brick™

Prismatic tanks take less space than large diameter LNG bullet tanks



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