



## About LNG

- LNG is natural gas which is made into a liquid by cooling it to  $-161^{\circ}\text{C}$
- When cooled to liquid form, the volume of gas is 1/600 of its original size, which is like a 43cm beach ball being compressed into a ping pong ball
- Liquefaction allows gas to be shipped and stored safely and economically.

## LNG properties

- It is the cleanest burning of all fossil fuels
- It is odourless and colourless in liquid form
- LNG is non-corrosive and non-toxic
- It will not pollute land or water resources
- It quickly vapourises when exposed to air
- LNG is lighter than air, so will float away if released
- LNG is not stored under pressure
- LNG is not explosive when stored in tanks or on ships
- LNG is not explosive if released into the atmosphere

- As a liquid, LNG is not flammable. If LNG comes into contact with warmer air, it becomes a visible vapour cloud as the moisture is condensed out of the air. As it continues to get warmer, the vapour cloud becomes lighter than the air, rises and disperses.

## LNG storage

- LNG is stored in specially engineered double-walled tanks
- The tank outer walls are made from concrete over 1 metre thick
- The inner tank is made from a steel / nickel alloy, designed to accommodate the very cold temperatures of LNG
- The tanks are not pressurised and are designed to trap any leaks safely between the inner and outer walls.



origin

ConocoPhillips

APLNG is a CSG to LNG Joint Venture  
between Origin and ConocoPhillips