

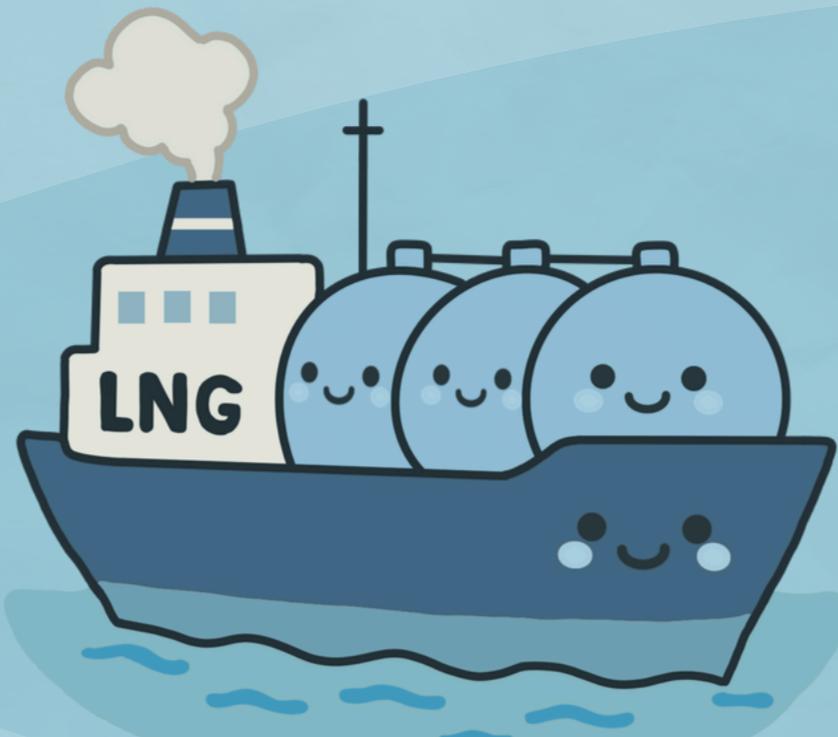
Blooming with sustainable
LNG cold energy.



What is LNG?

(LIQUEFIED NATURAL GAS)

Natural gas that has been cooled down to become a liquid has a temperature as low as -160°C



The volume is reduced by 600 times, making it convenient for transportation by ship over long distances and across continents.

At the destination, LNG is stored in insulated tanks. When it is ready for use, LNG is converted from liquid to gas, releasing a large amount of leftover cold energy.

Properties of LNG



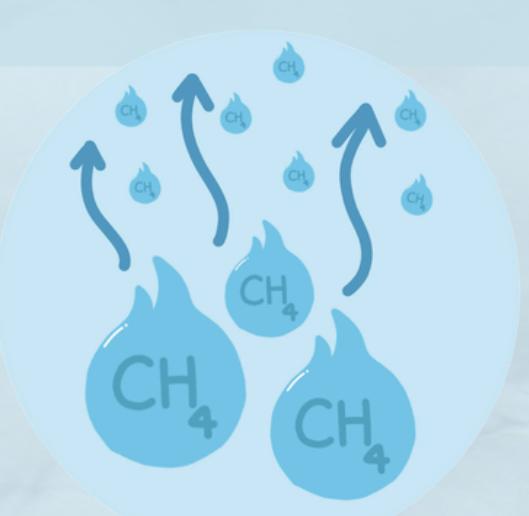
Colorless and
odorless



Non-toxic



Non-corrosive



Evaporates
and disperses
in air

LNG Clean Energy for a Sustainable Future



Natural gas The world's No.2
energy source after oil



Driven by three key factors

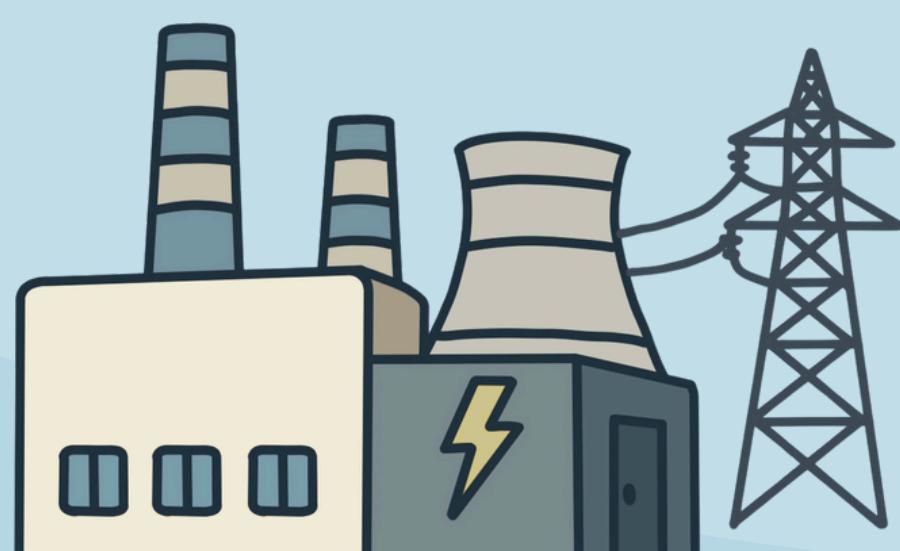
1. Environmentally friendly
2. Abundant supply
3. Competitive pricing



However, long-distance
cross-continental pipeline
transport requires
significant investment.

As a result, technology has been developed to convert natural gas into liquid form, making transportation more cost-effective and efficient. This liquid form of natural gas is called LNG (Liquefied Natural Gas)

Benefits of LNG in Thailand



Fuel used in power
generation



Fuel used in
manufacturing

Cold energy from LNG offers many benefits

While natural gas is continuously sent for power generation, the phase change from liquid to gas releases an enormous amount of cold energy – as low as -160 C.

It would be a shame
to let such extreme cold go to waste.

Let's turn LNG's ultra-low temperature into innovation!

LNG's
ultra-cold



How's it
useful?

5°C ~
25°C



Cold building
(HVAC System)



Increase Eff.
Solar Panel

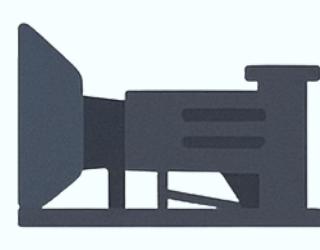


Tropical Corp

-10°C ~
-5°C



Cold Power
Generation

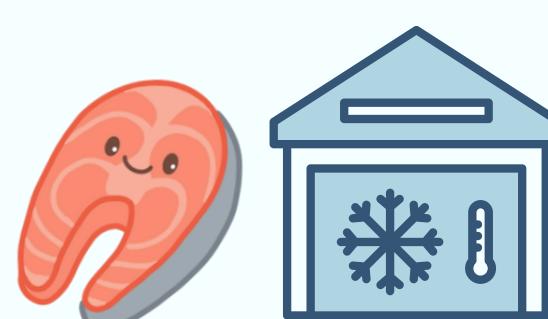


Cooling Air Inlet



Temperate Corp

-70°C ~
-10°C



Frozen Food

-160°C
~ -70°C



Cooling for
Gas Separation



Cooling for
Petrochemical



Cooling for
Separation Plant

PTT LNG invites you to a refreshing experience amidst the wonders of nature

From the coolness of LNG at Miracle of Natural at Flora Exhibition Hall



From the cooling power of LNG to the innovation of growing temperate-climate plants in PTT LNG's smart greenhouse. Now on display for free at the Miracle of Natural at Flora Exhibition Hall. The only place where cold-climate flowers bloom all year round



Tulip



Hydrangea



Daffodils

Get to know our cold-climate flowers follow us



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