



# LNG: A Cleaner Solution

PROMETHEUSenergy

## What is Liquefied Natural Gas?

LNG is simply natural gas in liquid form. It is an odorless, non-toxic and non-corrosive liquid produced by cooling natural gas to approximately -260°F at atmospheric pressure. At this temperature the gas condenses into a liquid, increasing the energy density of the fuel by a factor of 600.

The increased energy density, in turn, allows LNG to be stored and transported at much lower cost than the gaseous form. LNG provides a safe, efficient and cost-effective means for fuel users without access to pipelines to enjoy the benefits of clean, low-cost natural gas.



Dedicated to minimizing the impact of our operations on the environment, we provide a more affordable and cleaner fuel resulting in lower fuel costs and reducing the environmental impact.

## Reducing Industries Environmental Impact

**Cleaner Solution** - Prometheus Energy provides industrial users with a cleaner burning, more affordable fuel resulting in lower fuel costs and emissions. Liquefied natural gas (LNG) is a domestic fuel source that drastically reduces emissions from transporting internationally. Also, the way we source regionally reduces transportation costs thereby reducing emissions. Natural gas is a much cleaner-burning fuel than diesel, propane and heating oil which makes it the cleanest of all fossil fuels. LNG provides dramatic reductions in emissions of carbon dioxide, particulate matter, and smog-causing sulfur dioxide and nitrogen oxides.

cleanup needed. LNG is not a heavy hydrocarbon and therefore produces significantly less CO<sub>2</sub>, NO<sub>x</sub>, particulate matter, and other pollutants.

**Environmental Benefits** - Prometheus Energy is meeting the energy needs of present and future generations. We work with communities, business partners and other stakeholders to design production systems that consider everyone's interests while caring for the environment. We focus on the fundamentals to ensure safe and proper management of the facilities from liquefaction, distribution, storage, vaporization and end use.

<b>Fossil Fuel Emission Levels - Pounds per Billion Btu of Energy Input</b>			
<i>Pollutant</i>	<i>Natural Gas</i>	<i>Oil</i>	<i>Coal</i>
Carbon Dioxide	117,000	164,000	208,000
Carbon Monoxide	40	33	208
Nitrogen Oxides	92	448	457
Sulfur Dioxide	1	1,122	2,591
Particulates	7	84	2,744
Mercury	0.000	0.007	0.016

Source: EIA - Natural Gas Issues and Trends

Unlike crude and the liquid fuels derived from it, LNG requires no remediation of soil, groundwater or surface waters if spilled because it evaporates immediately and dissipates quickly with no environmental

**LNG offers a reduced fuel cost and an improved environmental footprint.**

- Natural gas produces almost 29 percent less CO<sub>2</sub> emissions than oil.

- Particulates from natural gas production are 83 percent lower than oil.

- Natural gas does not contribute significantly to smog formation because it emits low levels of nitrogen oxides, and virtually no particulates when used as a transportation fuel.

Contact us today to see how Prometheus Energy can work for you at [info@prometheusenergy.com](mailto:info@prometheusenergy.com)