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LNG: A Smarter Alternative for a Cleaner Tomorrow

Prometheus Energy's Bertasi on Natural Gas Fuel Solutions

Imagine replacing diesel, propane and other fuels produced from imported crude oil with an attractive alternative—a safe, clean burning, lower cost fuel from domestic resources. What is that alternative fuel? Liquefied natural gas, or LNG.

LNG has been used as a fuel for decades. LNG is an odorless, non-toxic and non-corrosive liquid. It is produced by cooling natural gas until it condenses into a liquid, which is easy to transport and deliver for use as a fuel. LNG is simply natural gas in liquid form. Let's take a closer look at LNG and its potential to replace diesel and propane.

It starts with safety. Safe storage, safe transport and safe usage are the most basic requirements, and no fuel can be considered a viable alternative to crude derivatives without these attributes. LNG has a long track record of safety in all three areas. LNG is produced from natural gas by cooling, and then stored in insulated tanks until transported. Like diesel and propane, it can be moved by rail, barge, or ship, but for industrial customers is generally delivered by truck. Onsite, it is again stored in insulated tanks until converted back to a gas prior to use.

LNG taps domestic resources. Tapping domestic resources means the elimination of price spikes and supply disruptions due to geopolitical events in unstable parts of the world. Importing crude oil from these regions leaves us exposed to the whims of political events outside our control. The resulting price volatility can wreak havoc with fuel budgets, and in the extreme case can even mean supply interruptions. Using fuel from domestic resources eliminates the price volatility and supply risk from distant political events. It also ensures that the well-paying jobs associated with finding, producing, processing and transporting the fuel go to American workers.

LNG offers a greatly reduced environmental footprint. Natural gas is a clean-burning fuel. Compared to diesel and propane, LNG provides dramatic reductions in emissions of carbon dioxide, particulate matter, and smog-causing sulfur dioxide and nitrogen oxides. If spilled, LNG evaporates immediately and disperses with no environmental cleanup needed.

LNG is cheaper than diesel and propane, today and into the future. In recent years, crude oil prices have moved steadily upward as growing demand from India, China and other emerging economies effected world markets. Most projections show world demand

continuing to grow faster than supply, with continued upward pressure on prices. Not surprisingly, fuels derived from crude, like diesel and propane, are at or near record high prices. In contrast, advances in drilling technology have allowed access to huge new gas fields in the US, and America's gas reserves have nearly doubled in the past few years to over 100 years of supply. Due to this major increase in reserves, natural gas prices are low and projected to remain low for years, with LNG at record low prices. Converting from diesel or propane to LNG can save 20% or more on a company's fuel bill, now and into the future.

LNG provides the benefits of natural gas without the requirement of a pipeline. For industrial users of diesel and propane located on local pipeline distribution networks, acquiring gas from the local pipeline utility is a simple and obvious option. But what about industrial users of diesel and propane not located on a local pipeline grid? How can they take advantage of the cost savings and other benefits of natural gas? After all, the cost of building a pipeline spur is prohibitive for all but the biggest consumers of fuel.

The answer is LNG. LNG can be delivered to any industrial facility, no matter where that facility is located and no matter whether that facility is temporary or permanent. A major capital investment in a pipeline connection is not needed. LNG can provide the benefits of natural gas without the need for pipeline infrastructure.

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About Prometheus Energy

Prometheus Energy provides turnkey small-scale liquefied natural gas (LNG) solutions for energy consumers and energy producers. Prometheus helps energy consumers reduce fuel costs and environmental footprint by moving from high cost crude oil-based fuels to low cost, secure, domestic LNG. Prometheus helps energy producers to optimize E&P activities and establish new revenue streams by reducing waste and monetizing stranded gas resources. The company is vertically integrated across the value chain from LNG production through logistics, distribution, regasification and downstream marketing. For more information, please visit www.PrometheusEnergy.com

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