



Natural Gas as compared to Liquid Natural Gas

Differences between CNG (compressed natural gas) and LNG (liquefied natural gas) are often discussed when trying to choose which will work best for a given application. Depending on that application, operating factors and day to day actions must be evaluated. Knowing the difference between one and the other is a good place to start!



CNG is predominately composed of methane (CH₄) and it is created by a multi-stage compression of natural gas. The gas is compressed to less than 1% of the volume it would normally occupy in its natural state under standard atmospheric pressure. This fuel is easily stored at offsite locations without a significant number of precautions or specialized handling. Because of its ease of handling, it is considered easier and more appropriate for fleets operating a “hub and spoke” model of transportation and distribution where trucks return to a centralized fueling site on a regular basis.

LNG is also predominately composed of methane but is created through a cryogenic (freezing) process where the gas is cooled to a temperature of -162 degrees Celsius. LNG occupies about 1/600th of its volume it would normally occupy at standard atmospheric pressure. The reduction in volume makes LNG more cost-effective for fleets traveling over long distances where pipelines do not exist, yet technology today has yet to see the efficiency in diesel equivalent miles per gallon as compared to the same volume of LNG (“fuel”). LNG is typically transported via specially-built trucks, railcars and steamships that can handle the pressurized tanks this product must travel in; this too adds expense incrementally.

RPM Consolidated Services Inc. is nearing completion of a new facility in Fullerton California opening in August of 2013. This location will house our corporate offices and several of our operating divisions. The Fullerton facility will also provide onsite CNG fueling for our tractors. Being able to purchase fuel in bulk quantities and fuel onsite allows greater collective efficiency in fuel management for our CNG equipment. Purchasing fuel in this manner also allows a greater cost savings. These are but a few of the sustainable commitments RPM Consolidated Services is dedicating itself to.

RPM Consolidated Services, Inc. is a California based corporation, privately held, providing comprehensive Offshore Transportation & Forwarding in Alaska, Guam, Hawaii & Puerto Rico, along with asset based Warehouse Distribution, Consolidation & Storage, Regional and Inter-Regional LTL, Truckload and Container Drayage services in California, Hawaii and Florida. For more information please visit us at: sales@rpmcsi.com

RPM Consolidated Services Inc is dedicated to sustainable programs for a cleaner environment