



# LIBERTY

natural gas

## What is Liberty Natural Gas?

The Liberty Natural Gas project is a natural gas pipeline project designed to bring lower cost, high quality, clean-burning natural gas directly into New Jersey's markets. Liberty's state-of-the-art, low impact natural gas delivery system consists of submerged buoys connected to a buried, undersea pipeline. The project will utilize the cleanest, most advanced and proven technology during its construction and operation phases.

## What is Liquefied Natural Gas?

Liquefied natural gas is natural gas that has been cooled (-264 F) into its liquid form at its source- this reduces it in size about 600 times its original size, making it safe, easy and very economical to transport. Liberty has partnered with Hoegh LNG to build special LNG regasification vessels. These specialized vessels will bring LNG to the Liberty buoy system and pipeline where technology onboard the vessel warms the LNG back into its gas phase before being piped ashore to NJ.

The submerged buoy technology is proven safe, reliable, and trusted. Liberty is a design similar to designs already in use today off the coast of Boston where two similar projects are currently in operations as well as a third operating in the Gulf of Mexico. The Port Dolphin project located off Tampa, Florida received its permits and plans to be operational by 2015. Liberty plans to be operational and delivering clean burning natural gas to New Jersey by 2014.

## How will Liberty's Proposed Project Work?

**What makes the Liberty project different is its advanced design and technology.**



**Liberty consists of three key elements:**

- Submerged Buoy Technology
- Forty-four miles of offshore pipeline predominantly in federal waters
- Nine miles of onshore pipe coming ashore in Perth Amboy and terminating in Linden, NJ following along existing utilities and infrastructure

Liberty will have the capability of bringing 2.4 billion cubic feet of natural gas directly into NJ, enough gas to fuel over 5 million homes. Liberty can do this with simple, yet sophisticated, proven

technology. Liberty's buoy system will be located over 16 miles off the coast of NJ in federal waters, well beyond the visible horizon, where they will rest on the bottom of the ocean. Upon arrival of an LNG vessel the buoy will be winched into the hull of the ship and hydraulically sealed through a moon pool. The buoy system acts like an anchor for the LNG vessel allowing it to weathervane with the prevailing winds and float with the waves even under severe conditions. Natural gas will leave the vessel and enter the Liberty buoy and pipeline system where it connects to the existing pipeline grid ultimately making its way to power your electricity, warm your homes, and cook your food.

**With no permanent floating infrastructure and located beyond the visible range from the shore, Liberty offers a clean, safe way to bring lower cost energy into New Jersey markets.**

## Will the Liberty Project Create Jobs and Bring Benefits to New Jersey?

Liberty Natural Gas will create 1,103 jobs during construction and installation of the project. Liberty's permanent payroll once the project is in operation will be more than \$5.4 million annually for jobs that will stay in New Jersey. Liberty Natural Gas will pay more than \$52.4 million in federal, state and local taxes every year. New Jersey will enjoy access to an abundant and inexpensive fuel source helping both stabilize and keep natural gas and energy prices lower. This will result in reducing your energy bill, create secondary industry growth, and bring even more jobs.

## What are the Environmental Impacts?

**LNG** – A cryogenic form of natural gas that is non-toxic, non-explosive, and lighter than air and if spilled will dissipate quickly, leaving no trace or slick.

**LNG Vessels** – Designed for the smallest air and water impacts: zero discharge, run on natural gas (not diesel), minimal ballast uptake, special puncture prevention design with over 100,000 incident free voyages.

**Buoy System** – Invisible from shore with LNG vessels of floating cargo and resting on bottom when not in use.

**Pipeline** – Buried and concrete coated, route selected to avoid environmental and stakeholder concerns.

**Construction** – Impacts will be avoided or minimized to the greatest extent practical and to the highest standards of the DEP and other regulatory agencies.

**Air and Climate** – Natural gas is a fuel choice that has half the emissions of oil and far less than coal. Liberty's LNG vessels will burn natural gas keeping the life-cycle green house gas emissions well below coal and oil.

**Mitigation** – Impacts (temporary and short duration) will be negotiated as a NJ benefit including but not limited to, environmental enhancement projects, ecological programs, improvements to fishery resources, coastal improvements and scientific research.



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[www.LibertyNaturalGas.com](http://www.LibertyNaturalGas.com)

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