



# GALVESTON LNG BUNKER PORT

CLEAN MARINE FUEL FOR GALVESTON BAY

Galveston LNG Bunker Port (GLBP) is a joint venture by Pilot LNG and Seapath Group to develop, own and operate the first small-scale liquefied natural gas (LNG) facility on the U.S. Gulf Coast dedicated to serving the growing clean-energy marine fuels market.

GLBP will supply LNG by fuel barge to the rapidly expanding fleet of LNG-fueled vessels in the greater Houston-Galveston region. It is optimally located to serve major ports, including Port Houston, the Port of Galveston and the Port of Texas City.



## About LNG

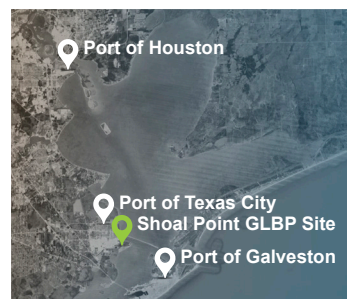
LNG is made from the same natural gas used in your home. It is super-cooled to liquid form for easier transport and use. LNG has been safely shipped around the world for more than 50 years.

- ✓ Odorless, non-toxic, non-corrosive liquid
- ✓ Not stored under high pressure
- ✓ Not flammable or explosive
- ✓ No pollution or contamination risks



## About the Facility

The 140-acre greenfield development will be a 380,000 gallon-per-day (GPD) LNG bunker terminal on Shoal Point in the Texas City industrial complex. The facility would have a production capacity of 760,000 GPD at full build-out. The first phase will include a production train, storage tank, control room, and marine loading and off-loading facilities.



(Rendering)

## OUR COMMITMENT

GLBP will demonstrate commitments to health, safety and the environment by developing and operating a world-class facility using industry-leading proven technology, materials and best practices.





(Rendering)

## GLBP PROJECT FACTS



### Safety

- Existing, proven modular technology and equipment
- Rigorous personal and process safety practices and processes
- State-of-the-art safety, security and hazard mitigation systems



### Environmental

- No harmful emissions to air or water
- Clean-energy marine fuel improves air quality



### Location

- Existing industrial area
- Deepwater channel
- Channel operations continue unaltered
- In unlikely event of an incident, potential impacts would be contained onsite, as required by regulation



### Economic Impact

- \$250 million initial investment
- 250 construction jobs at peak
- 25-50 permanent operations jobs

## Permitting and Timeline

The project team will work with multiple federal and state agencies for permitting, regulatory requirements and operations oversight.



## MEETING DEMAND FOR CLEAN MARINE FUELS

With new international regulations mandating cleaner-burning fuels for the marine industry beginning in 2020 and the shipping industry's drive to reduce carbon and other emissions, the project is ideally timed and situated.

- Number of LNG-fueled vessels expected to more than double in next few years (1,035 globally by 2025); driven by global marine regulations and corporate environmental goals
- LNG-fueled ships, including the Carnival Jubilee, are already here



## LNG a cleaner marine fuel to improve air quality\*



99% reduction in sulfur oxide (SOx)



96% reduction in particulate matter



90% reduction in nitrous oxide (NOx)



25-30% reduction in greenhouse gases

\* Compared to traditional heavy fuel oil and marine distillate