

PILOT

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Project Overview





Introduction





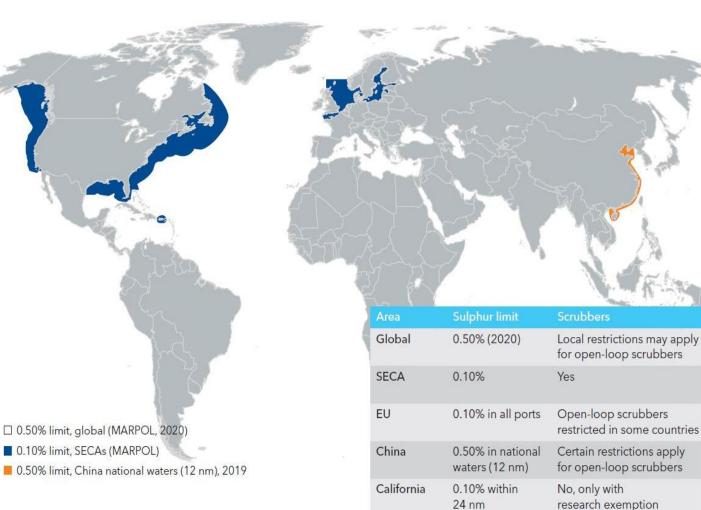
PILOT LNG IS AN ENERGY SOLUTIONS COMPANY, FOCUSED ON THE DELIVERY OF LIQUEFIED NATURAL GAS (LNG) TO BOTH NEW AND EXISTING MARKETS BY DEVELOPING AND OPERATING LNG IMPORT AND LNG FUEL/BUNKERING TERMINALS AND RELATED INFRASTRUCTURE. THE COMPANY AIMS TO ESTABLISH LNG TERMINAL AND LOGISTICS OPPORTUNITIES WORLDWIDE TO MEET GROWING NATURAL GAS DEMAND. PILOT LNG IS WORKING WITH THE PORT OF GALVESTON ON THE DEVELOPMENT OF AN LNG BUNKER TERMINAL THAT WILL BE LOCATED ON PELICAN ISLAND. THE LNG BUNKER FUEL WILL SERVE THE GREATER GALVESTON / HOUSTON PORT COMPLEX BY SUPPLYING CLEAN BURNING LNG TO THE RAPIDLY EXPANDING FLEET OF LNG-FUELED VESSELS.



Why LNG as a Marine Fuel?



- New international regulations effective January 01, 2020 require the shipping industry to burn fuels with <0.5% Sulphur (SOx) globally
 - In certain regions (US, Europe), the regulations are more stringent <0.1%
- LNG has much lower emissions than conventional marine fuels
 - LNG emits zero SOx
 - LNG has virtually no particulate matter
 - LNG emits 90% less NOx vs. conventional HFO
- LNG as a marine fuel is less costly when compared to low Sulphur fuel oil

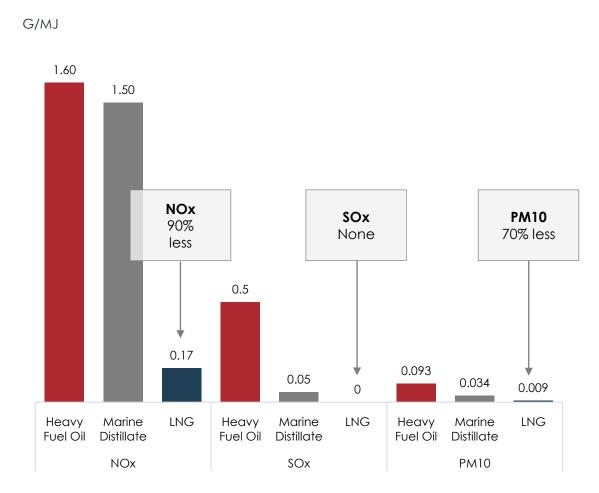


LNG Plays an Important Role in a Cleaner Energy Future

Pilot LNG's Environmental Goals

- 1 Protect and Preserve The Environment
 - 2 Provide Cleaner Energy Solutions
 - 3 Minimize our Environmental Footprint
 - 4 Become a Leader in Safe and Cost Effective Operations
 - 5 Develop New Best-in-Class LNG Project Opportunities

LNG as Marine Fuel Will Provide Cleaner Air

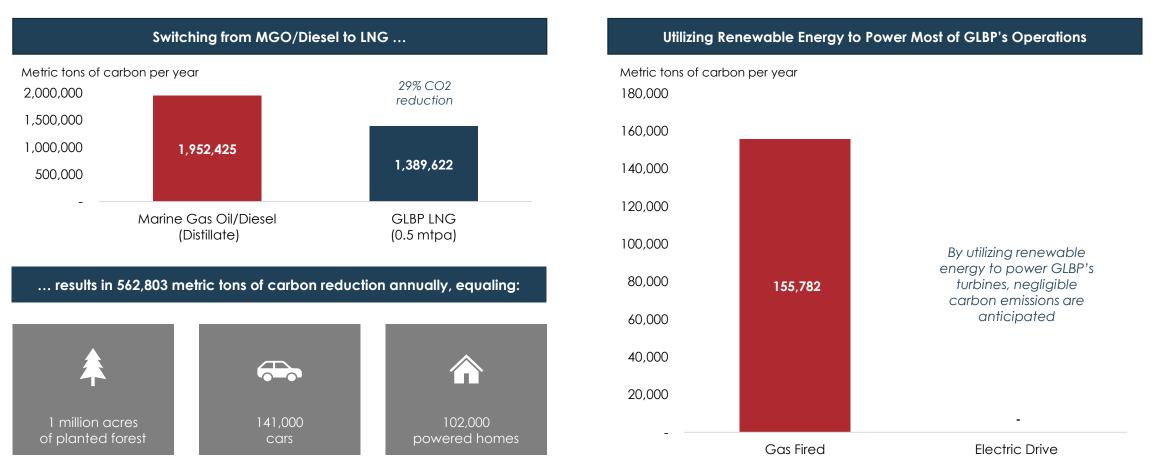


GLBP's Carbon Reduction Impact



Potential for Significant Carbon Reduction By Using LNG from GLBP as a Marine Fuel

PLNG is also exploring potential carbon sequestration offsets and carbon neutral bio-methane gas supply, to offer decarbonized LNG cargoes



Confidential Source: GLBP Management estimates

Global LNG Bunkering Infrastructure in Operation

96 Ports/Terminals Supplying LNG Fuel – Estimated 6,000+ Bunker Transfers so Far



Confidential

LNG Bunkering:

- LNG Bunkering Vessel 19
- LNG Bunkering Infrastructure 87
 - Truck Loading
 - Bunker Vessel Loading
 - Local Storage
 - Tank to Ship
 - Other Bunkering

Top 10 Bunkering Ports In The World:

- Singapore
- Rotterdam
- Fujairah
- Hong Kong
- Antwerp
- Busan
- Gibraltar
- Panama
- Algeciras
- Los Angeles/Long Beach

Confidential Source: GLBP management

Galveston LNG Bunker Port

Concept and Description

- Land-based infrastructure
- Floating gas liquefaction and storage unit
 - Liquefaction capacity 0.5 Mtpa (Nameplate)
 - Storage capacity 18,000 m3
 - Hull permanently moored
 - Electric powered by renewable energy sources
- Bunkering vessel delivers LNG to ship
- Established gas supply from the Houston Pipeline System Intrastate System (Energy Transfer)
- Located on Pelican Island, ideally situated for access to the largest port complex in the US
- Easy access for all ships calling on the Ports of Galveston, Houston, and Texas City
- The Galveston Bay Port Complex does not have any competing infrastructure for delivery of LNG as marine fuel









From Natural Gas to LNG as Marine Fuel

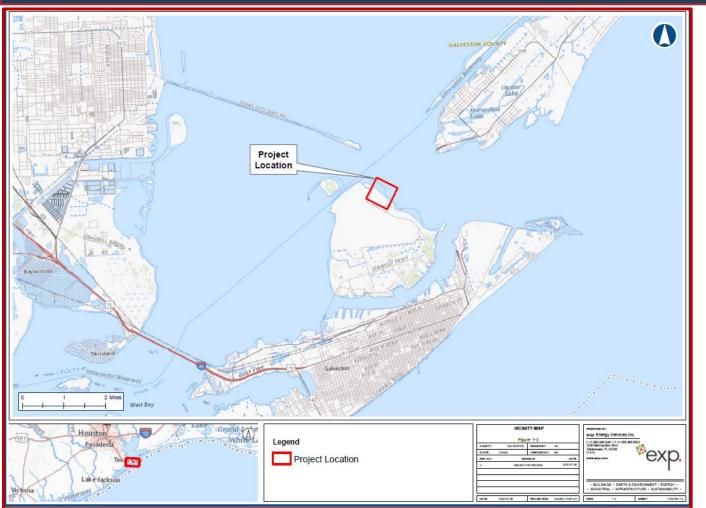
Gas Supply - Land Based Infrastructure – Floating Liquefaction and Storage – LNG Barge Distribution



Alternative Gas Pipeline 1 Alternative Gas Pipeline 2

Project Location

Galveston Bay has 62% of all deep draft vessels that port in the State of Texas. In 2019 there were over 10,500 deep draft port arrivals in Galveston Bay along with over 133,000 tug/tow barge movements on the Houston Ship Channel.

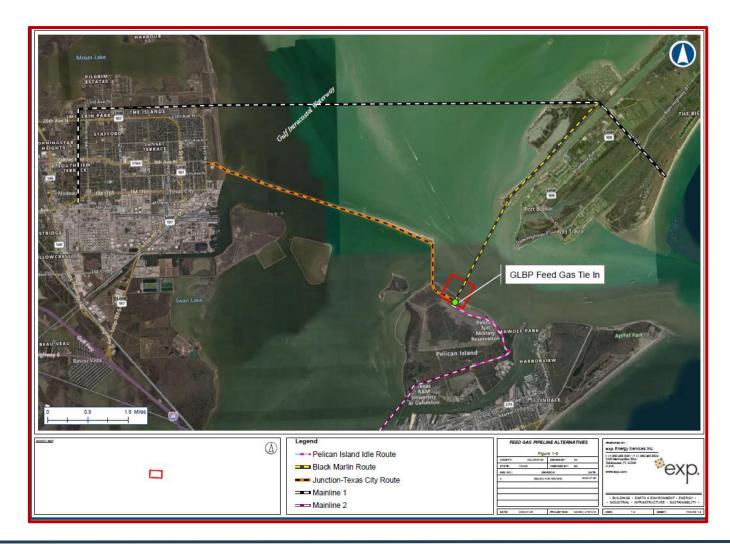


Site is located on Pelican Island, Galveston, TX

- Site is **heavily industrial**, and at the entrance to both the Texas City Ship Channel & Houston Ship Channel
- Bolivar Roads anchorage is located to the immediate east of the site location, in the Galveston Bay
- Major cruise terminal in the Port of Galveston
 - ~300 port calls/sailings in 2019
 - Announced new cruise terminal #3 in October 2019 adding 59 future sailings and with a capacity to add a further 100 sailings
 - Cruise industry early adopters of LNG as a marine fuel
- Site has **ample waterfront acreage** with direct access to the Texas City Ship Channel, Houston Ship Channel and the Galveston Channel, all maintained at a depth of 45-feet.
- Short transit to Gulf of Mexico for any offshore bunkering requirements

Project Gas Pipelines & Gas Supply





- Project: Galveston LNG Bunker Port
- System: Houston Pipeline System
 (Energy Transfer) Intrastate System
- Description:
 - Expansion of the current 12-inch HPL system on Pelican Island approximately 2.79 miles in length to GLBP "City Gate"
 - Alternative route is a new build lateral from the Texas City system down the Texas City dyke approximately 6.91 miles
 - A 3rd route would take advantage of the abandoned Black marlin system from Texas City to Bolivar Roads, and a new build lateral across under the HSC to the site

Project Layout





- **Project**: Galveston LNG Bunker Port
- **System**: Land-based infrastructure Site/shore layout (~13 acres)
- Description: Key Components
 - Control Room/Administration
 Building
 - Warehouse/Workshop Building
 - Switchgear/MCC Building
 - Firewater Pumphouse Building
 - Feedgas Compressor
 - Potable Firewater Tank
- **System**: Marine/Jetty infrastructure Main Platform
- Description: Key Components
 - Gangway Tower
 - High Pressure Gas Arm
 - Berth Operator Shelter
 - Diesel Firewater Pump Package
 - Ship to Shore Power Supply
 - Hydraulic Power Unit

Floating LNG Bunkering Technology



Designed specifically for the US market & regulatory requirements 01-040-100-001 *** 10.02 4.5 23 Di Hi Gir è) 21.00 × 21.00 × -1.00 × ----100.04 202.4 1422-2

- Project: Galveston LNG Bunker Port
- System: Floating gas liquefaction and storage unit
- Description
 - Length 148m (486 ft.) * Breath 32m (105 ft.) * Depth 21m (69 ft.)
 - Design Draft: 6.0m (19.7 ft.)
 - Throughput
 - Liquefaction: 82 Mmscf/d (≈ 0.50 nameplate Mtpa)
 - Storage: 18,000m3 (Type-C tank)
 - Hull: permanently-moored, non-propelled
 - Design
 - Barge: Wison
 - Liquefaction technology: Encryo (Baker Hughes) Single Mixed Refrigerant (SMR)
 - Storage and Cargo Handling: TGE
- Contract Type: Turnkey EPCIC
- **Operational Status**: Original Tango FLNG held successful gas trial in Sep 2016, at Wison's Nantong Shipyard, delivered in Jan 2017. Currently operating in Argentina (Bahia Blanca) for YPF

Regulatory & Permitting Process

There Is No Requirements For FERC Permit Process for GLBP, Which Shortens The Process By 2+ Years

Stage 1	Stage 2	Stage 3	Stage 4	Stage 5
Origination & Development	Consultation & Coordination	Regulatory Review & Risk Assessment	Pre-Operational, Final Permit Review & Approval	Operational
Determine the scope of the project, identify potential locations, & determine regulatory requirements. Execute key early agreements; site exclusivity & 3rd party engineering and design, regulatory & permitting expertise. Evolve engineering & design for initial application(s), stakeholder outreach (agency & community)	File preliminary application(s), consult with Government agencies (Federal, State, and Local) and other stakeholders, to determine permitting, certification & regulatory requirements needed. Evolve engineering & design and subsequent environmental impacts and mitigation, based on agency feedback, continue with stakeholder outreach (agency & community)	Conduct the risk assessments required by local, state & federal regulators. • Fire risk assessment • Process hazard analysis • Siting study: exclusion area analysis • Simultaneous operations assessment • Waterway Suitability Assessment: safety & security	Prepare for operations by filing all permits, establishing all programs, and submitting plans, processes, and procedures, for review & final approval.	 Begin Operations by fulfilling the proscribed requirements. Training/Credentialing Program Safe Work Practices Program Incident Investigation Program Corrective & Preventative Actions Program Hot Work Permit Program Process Safety Management Program Contractor Safety Program Safety Management System
	OSHA	THE STARS		PHMSA PH



Regulatory Development Schedule



	Q1 2020	Q2 2020	Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	Q4 2021	1H 2022
 Phase 1 Execute site agreement with Port of Galveston Prepare Permitting Roadmap (Part of the Critical Issues Analysis) 	٠	Phase #1	Executed ag		h Eng. & Desig Port of Galves				greement
 Phase 2 Identify Stakeholders and Adjacent Landowners Prepare and Issue Agency Pre-Application Consultation Letters Outreach for Application meetings with regulatory agencies 		٠	Phase #2	Cor	mpleted conc	eptual Eng., c	desk top Env.	& Reg. Outre	each
 Phase 3 Draft and Submit Permit Applications and Consultations Requests Perform environmental and cultural surveys if required Begin to prepare EA to support Permit Applications and Regulatory Compliance 			•		Phase #3 and Applications filed, and engag		nd engagem	ent of the	
 Phase 4 Begin WSA Process and draft Preliminary WSA File Public Notices Submit Preliminary WSA and hold WSA Workshops Submit Follow On WSA 				٠	#4		regulatory o	agencies etc	
 Phase 5 Answer Agency Data Requests Respond to Permit Public Commits Receive and Review Draft Permit Conditions 						٠	Phase #5		
 Phase 6 Receive Letter Of Recommendation Receive Permits (Construction Permits and Clearance Letters) Perform Mitigation (if required, can be done at FID or during construction) Request Notice to Proceed to Construction 						Phas	e #6	FID	•

Confidential

Source: CHIV, EXP and GLBP Management





- Ideal location to produce LNG marine fuel within the largest port complex in the USA
- Providing LNG bunker fuel at the market avoids costly transportation from remote supply sources along the US Gulf Coast
- Producing LNG bunkers in Texas provides access to less expensive feed gas
- Eliminates LNG shipping and terminal costs when compared to LNG bunkers in Europe or Asia
- Using proven floating liquefaction technology reduces execution risk and costs
- Permitting process reduces time to market by ~2 years compared to FERC timeline
- Final Investment Decision (FID) expected Q4 2021/Q1 2022
- In-Services date estimated Q4 2024 / Q1 2025
- Pilot LNG offering flexible commercial structures

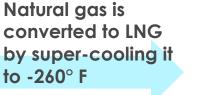
Key Strategic Partners



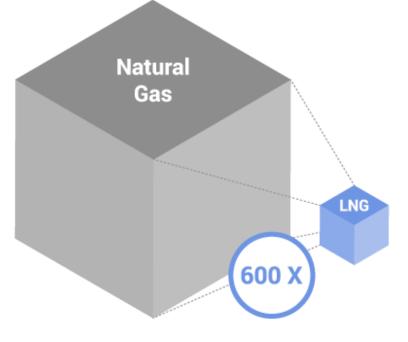
Marine/Jetty fixed • Port of Site exclusivity agreement infrastructure civil engineering W. F. Baird **Baird** executed & design and dredge disposal Galveston novation Engineered GALVESTON WHARVE plan FLNG Basis of Design **Energy Transfer** FLNG FEED (Front End Partners / Wison Engineering & Design) Gas pipeline infrastructure wison ENERGY Houston TRANSFER FLNG EPCIC (EPC, Installation, **Pipeline Co.** & Commissioning) EXP Waterway Suitability Analysis AcuTech Regulatory and permitting AcuTech **Environmental** regulatory requirements Services Inc. Land-based fixed infrastructure including Geophysical and UGRO CH-IV/Clough Fugro marine topsides Basis of geotechnical analysis // CLOUGH Design, Pre-FEED & FEED

What is LNG?

- LNG is an odorless, non-toxic and noncorrosive liquid
- LNG is not stored under high-pressure, is not flammable and is not explosive
- LNG has been safely and securely shipped around the world for more than 50 years
- LNG does not pose a contamination risk



At which point it becomes a liquid, reducing its volume by a factor of more than 600.





Common Myths & Misconceptions



LNG is explosive



- LNG facilities smell
- LNG projects are rubberstamped by the government & agencies
- The proposed LNG terminal is too close to communities to be safe
- LNG vessels will shut down the channel for days at a time
- LNG facilities will destroy the local environment and poison the air
- MYTH
- LNG facilities will ruin the tourism industry

- LNG as a liquid is non-flammable and non-explosive
 - Unlike oil refineries and complex chemical facilities, LNG terminals do not put out noxious or malodorous emissions
- US LNG projects undergo an extremely rigorous review process ensuring safety and environmental responsibility
- In the unlikely event of an incident, any potential significant impacts would be contained onsite, as required by regulation
- Channel operations would continue mostly unaltered with safety and security procedures controlled by the Coast Guard
- The agency environmental review process ensures that projects meet or exceed all environmental requirements
- LNG projects must meet or exceed all air quality requirements, which are in place to protect the public health and environment
- In ports around the world, LNG terminals coexist with thriving tourism and local industries In fact LNG is becoming the fuel of choice for the Cruise Industry LNG is explosive

LNG – Excellent Safety Record



- The bulk LNG transportation industry, where LNG is commonly used as a fuel for the transporting vessel, has an excellent safety record.
 - Over the past 50 years, more than 77,000 commercial LNG cargoes have been safely delivered and global LNG shipments have covered more than 100 million miles about 4,000 times around the earth without any major safety incidents in port or at sea.
 - This is testament to the LNG industry's rigorous design guidelines for both ships and shore facilities, as well as high standards of training and operational procedures.
- The use of LNG as a marine fuel outside the LNG carrier business is a relatively new technology, as are gas only and dual-fueled engines.
 - Since its introduction as a marine fuel at the turn of the century, LNG-fueled vessels and associated bunkering operations have had an exemplary safety record.
 - For example, the Viking Grace cruise ferry has bunkered, without incident, more than 1,000 times in Stockholm since its entry into service in 2012.

Location, Size & Safety

Galveston LNG Bunker Port is a small scale LNG facility and compared to the export projects in Texas & Louisiana, only a fraction of the size. It is more like a corner gas station for marine vessels, than a major industrial export complex.

Location	Distance (in Miles)	7	
1. Texas A&M Galveston: Dorm Complex	2.13		P
2. Texas A&M Galveston: main Campus	2.4		
3. Port of Galveston: Office	2.9		6
4. Galveston Ferry Terminal	2.3	(BURNEL)	
5. Seawolf Park	1.7	A	
6. Bolivar Roads Ferry Terminal	1.73		
7. Texas City Dyke	1.15		
	2		5
		3	

Texas/LA Export Projects & Metric	Compare	Small Scale Project & Metric	
Cheniere Sabine Pass	versus	Galveston LNG Bunker Port (GLBP)	
Storage: 5 Tanks 3 @ 160,000 m3 2 @ 180,000 m3 Total: 840,000 m3	2.1%	Storage : 3 Tanks 3 @ 6,000 m3 Total: 18,000 m3	
Production: 6 Trains Total: 30 Mtpa	2.2%	Production: 1 Train Total: 0.65 Mtpa	
Freeport LNG	versus	GLBP	
Storage : 3 Tanks 2 @ 160,000 m3 1 @ 165,000 m3 Total: 485,000 m3	3.7%	Storage : 3 Tanks 3 @ 6,000 m3 Total: 18,000 m3	
Production: 3 Trains Total: 15 Mtpa	4.3%	Production: 1 Train Total: 0.65 Mtpa	

Summary



- Strong outlook for LNG bunker market due to new emissions standards
 - Strong fundamentals highlighted by rapid growth in Europe & Asia, and marine industry order book for LNG powered vessels
- LNG as a marine fuel is highly competitive with low sulfur marine fuels
 - Long term economics favor LNG over petroleum based marine fuels
- Excellent location to serve the growing LNG marine fuels market including the cruise ship sector in Galveston, as well as the dual fuel tanker, container, car carriers calling the ports of Houston/Galveston/Texas City
- Unmatched location for a combination of early adopters, and market depth (largest port complex in US)
- Pilot LNG has exclusivity on the site and has completed initial due diligence & fatal flaw analysis and has not found any show stoppers
- Well defined, Non-FERC, expedited clear permitting path identified
- Strong team assembled to perform pre-FEED & FEED to FID
- Highly experienced management team with proven track record in developing both US energy & global energy infrastructure projects



Thank You! We look forward to further discussions.

Contact: info@pilotIng.com

