

NORTHEAST FLORIDA
LEADING THE CLEAN FUEL
REVOLUTION



A MESSAGE FROM JAXPORT



Northeast Florida is on the cutting edge of something truly remarkable—the implementation of cleaner, safer liquefied natural gas (LNG) as a maritime fuel.

From multimillion-dollar investments in LNG-powered vessels to the development of landside bunkering and liquefaction plants, JAXPORT and partners are leading the nation in the emergence of LNG as a preferred, environmentally-friendly fuel source for the maritime industry.

Although LNG is relatively new to the maritime space, it's been safely used for decades to provide power to homes, businesses and industries worldwide.

The benefits of LNG over traditional fuel include a significant reduction in carbon dioxide and other greenhouse gas emissions, helping preserve the environments where we live and work.

JAXPORT is the only East Coast port to serve vessels powered by LNG with on-dock and near-dock fueling capabilities.

TOTE Maritime Puerto Rico operates the world's first LNG-powered containerships out of JAXPORT's Blount Island Marine Terminal and Crowley Maritime Corporation's two, new LNG-powered, combination container-roll-on/roll-off (ConRo) ships call JAXPORT's Talleyrand Marine Terminal home.

Read on to learn more about Northeast Florida's emerging, innovative role as a global hub for LNG.

A handwritten signature in white ink, appearing to read "E. Green".

Eric Green, JAXPORT CEO

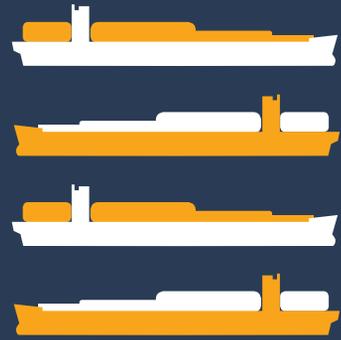
Liquefied Natural Gas (LNG):

Natural gas that has been turned to liquid by reducing its temperature to -260 degrees Fahrenheit. LNG is consumed in millions of homes, businesses and industries worldwide.



JAXPORT LNG BY THE NUMBERS

2 Shipping lines committed to LNG as a marine fuel



4 LNG-powered ships homeported at JAXPORT

16M+ Gallons of LNG storage capacity

4 LNG facilities



1.9M+

Gallons of daily LNG production capacity

Why LNG? Why JAXPORT?

- » LNG has gained favor as a marine fuel as it improves air quality by decreasing emissions of nitrogen oxides, sulfur oxides, carbon dioxide and particulate matter.

It is also a cost-effective alternative to traditional fuel.

- » Jacksonville is the No. 1 U.S. port for trade with Puerto Rico, and the vessels that ply the trade essentially travel a closed loop – serving a limited number of ports, in a definitive range.
- » New, LNG-powered vessels, along with fueling and fuel storage systems, have been designed with set travel distances and fuel supply access in mind.
- » The Puerto Rico trade lane is now serviced through JAXPORT by some of the world's most environmentally friendly vessels, thanks to LNG.



“Jacksonville is the center of the LNG maritime universe. There is no other port in the world that has done all of the things Jacksonville has done.”

-Peter Keller, Executive Vice President, TOTE, Inc.

“We’ve worked with LNG for more than 50 years, so we know it’s safe, reliable and offers tremendous environmental benefits.”

-Tim Hermann, President, Pivotal LNG

LNG IS THRIVING IN JACKSONVILLE

LNG activity is thriving in the Jacksonville region, and economic development officials are busy capitalizing on the opportunities ahead.

JAXUSA Partnership President Jerry Mallot promotes Northeast Florida to audiences from many different business sectors. He said the region offers exceptional benefits to the LNG industry.

Mallot lists many of these advantages: a deep and talented workforce, pro-business attitude, equitable cost of doing business and exceptional transportation network. The marine sector is a critical draw. JAXPORT's domination of the Puerto Rican freight industry and its broad reach throughout the Caribbean are particularly important.

Jacksonville has become a leader among ports in the Southeast for the development of LNG infrastructure. Two JAXPORT-based Puerto Rican shipping lines require LNG fuel for their new ships, built to meet updated federal regulation and to take advantage of the cost savings associated with LNG.

Mallot said the benefits of LNG don't stop there. Jacksonville's service options

to the Caribbean will provide good access for LNG exports to the islands.

"LNG is a highly exportable item," Mallot said, adding "Our region needs to build infrastructure to produce and deliver fuel to the marine industry, and with that capacity in place, the next phase will be to build exports to the islands and other markets."

There has been steady growth in demand for LNG throughout the U.S., spurred in part by reasonably priced domestic production of the product. With a supply of LNG coming on stream in Jacksonville, local players will be able to support more customers throughout the Southeast, creating a true economic LNG cluster in the region, supporting jobs and building commerce.

"We appreciate the partnership with JAXPORT and the city of Jacksonville as we all make investments in LNG. They have been critical to our success here."

- Thomas Crowley, Chairman and CEO, Crowley Maritime Corporation

"LNG is here today - so it's no longer the fuel of the future, it's the fuel of today."

- Sean Lalani, President, Eagle LNG

LNG GROWTH OPPORTUNITIES

Crowley-owned Carib Energy has begun small scale exports of LNG to Puerto Rico and has plans to expand to a number of other countries in the Caribbean and Latin America.

Eagle LNG received approval from the U.S. Department of Energy to export LNG worldwide from its Jacksonville liquefaction plant. The company can export 10 million cubic feet of fuel per day to anywhere in the world allowed by U.S. policy.

As the opportunities for LNG exports continue to grow, so do the investments being made by a variety of vessel owners looking to adopt LNG as a marine fuel—including the world's largest containerships, as well as vehicle carriers and cruise ships. As the only U.S. East Coast port offering shoreside LNG bunkering, Jacksonville is equipped with the infrastructure to supply the growing global demand for LNG.

LEADING THE CLEAN FUEL REVOLUTION

NORTH JACKSONVILLE

JAXPORT tenants are investing millions in ships and equipment as they pioneer the use of liquefied natural gas (LNG) as a preferred fuel source for the maritime industry.



Eagle LNG supplies fuel to Crowley Maritime's new LNG-powered container-roll-on/roll-off (ConRo) ships.

EAGLE LNG

Eagle LNG operates a liquefaction plant in West Jacksonville, with the capacity to produce 200,000 gallons of LNG a day.



Eagle plans to build a second plant and storage facility near JAXPORT's Blount Island Marine Terminal and has received approval for small-scale exports.

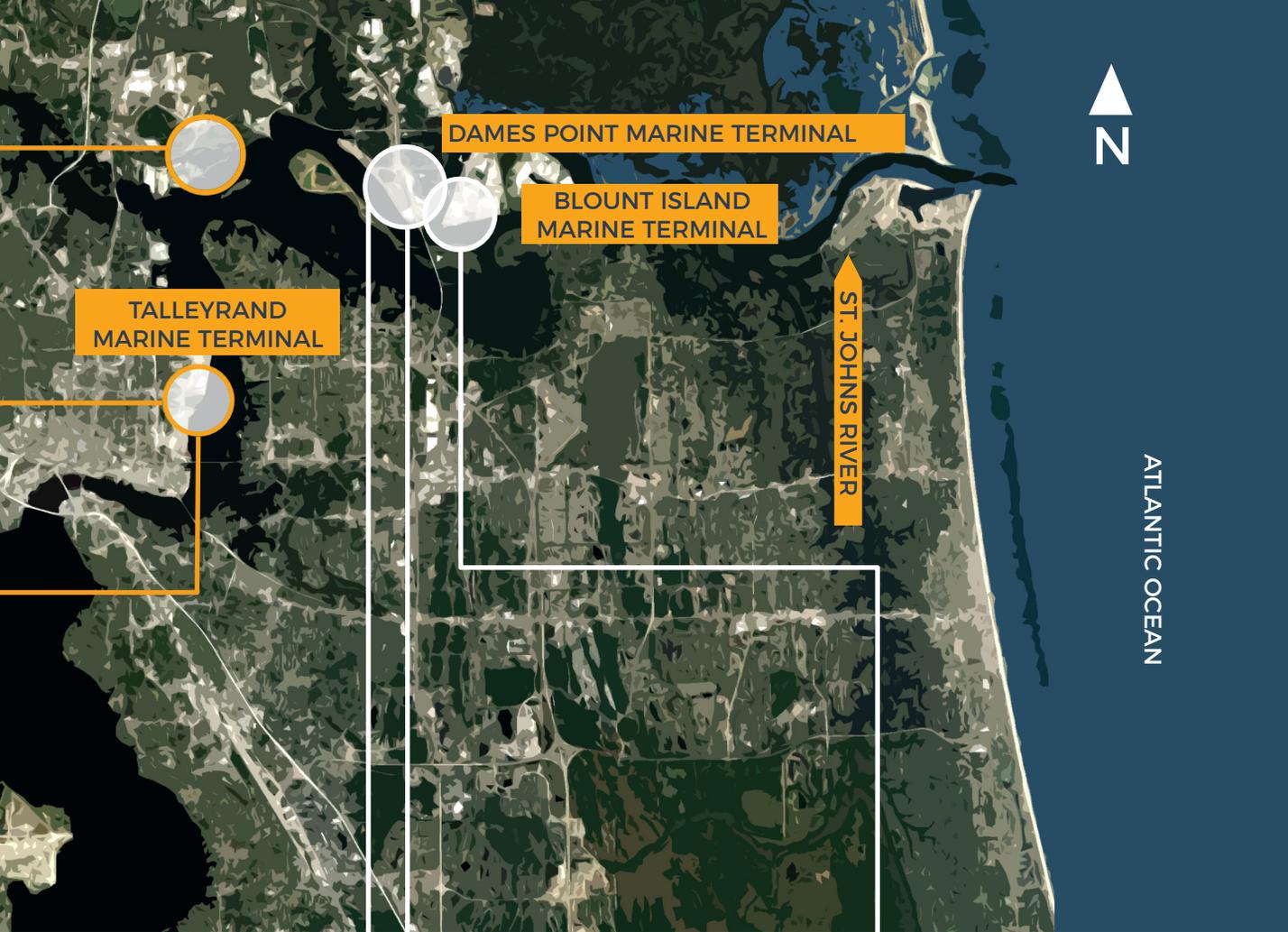
CROWLEY MARITIME



Two new LNG-powered ConRo vessels are homeported at JAXPORT's Talleyrand Marine Terminal near downtown Jacksonville.



Crowley's new ships are fueled by an on-dock LNG bunkering facility supplied by Eagle LNG.



JAX LNG supplies the world's first LNG-fueled containerships operated by TOTE Maritime Puerto Rico.

JAX LNG



JAX LNG operates a liquefaction and storage facility at Dames Point with the capacity to produce more than 120,000 gallons of LNG a day.



TOTE Maritime is launching North America's first LNG bunker barge, Clean Jacksonville, for barge-to-ship LNG bunkering.

TOTE MARITIME



Two new 3,100 TEU LNG-powered containerships operate from JAXPORT's Blount Island Marine Terminal.

LEARN HOW JAXPORT IS PROMOTING THE USE OF LNG AS A MARINE FUEL: [JAXPORT.COM/LNG](https://www.jaxport.com/lng)

WHAT THEY ARE SAYING:

“LNG is on the cutting edge - so it’s us working together and paving the roads together into the future.”

- Jennifer Bradshaw, Area Port Director, Jacksonville U.S. Customs and Border Protection

“Businesses are investing and innovating in the LNG space here in Northeast Florida and our international partners are taking notice.”

- Christopher Quinn, Vice President of Industry and Government Affairs, JAX Chamber

“The LNG movement has put us on the map. Other industries in the alternative fuels arena now look to Jacksonville as an opportunity to expand.”

- Jeff Sheffield, Executive Director, North Florida Transportation Planning Organization

“All of us in Jacksonville recognize the major contributions of the Coast Guard when it comes to supporting LNG and what they’ve accomplished over a very short period of time. They worked diligently and partnered with industry to come up with the right rules and regulations.”

- David Stubbs, JAXPORT Director, Properties and Environmental Compliance

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