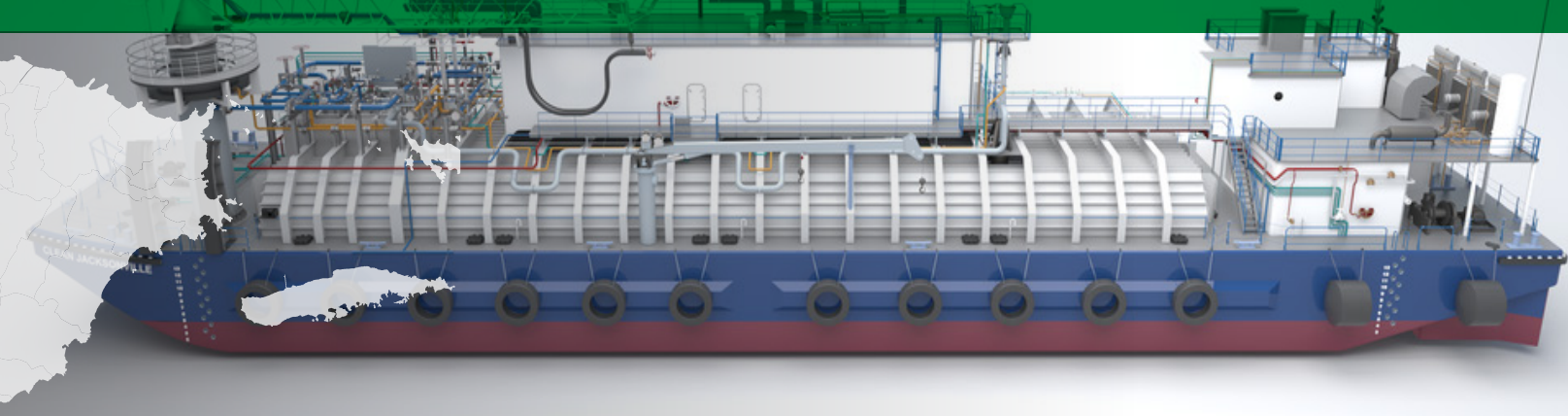


PROJECT OVERVIEW

FIRST U.S. FLAGGED LNG BUNKER BARGE



THE PROJECT:

Foss Maritime has been deeply involved in the design and construction of the first U.S. flagged liquefied natural gas (LNG) bunker barge, the *Clean Jacksonville*. Foss provided project management and bunkering operations, as well as subject matter expertise and formed an LNG operations team who will operate the barge in support of Tote Maritime Puerto Rico's, LNG-Powered, Marlin Class Vessels.

SERVICES PROVIDED:

- Naval Architecture
- Marine Engineering
- Project Management

HIGHLIGHTS:

- The *Clean Jacksonville* has a towing speed of up to 8 knots and a storage capacity of 2,200 m³, with atmospheric membrane tanks that conform to the hull shape to maximize use of space.
- The barge uses the latest leak detection technology and emergency shutdown systems to meet strict regulatory requirements.
- LNG vessels have made more than 105,000 LNG carrier voyages without major accidents or safety problems, either in port or at sea.
- Foss worked with the U.S. Coast Guard to develop a recruitment process to define areas of expertise required for crew positions.
- Foss provided detailed risk assessments, HAZID/HAZOPS, Waterway Suitability Studies, contingency plans and emergency response plans.