

# NAVIGATING LNG with Confidence

A Digital Solution for Every Stage of the LNG Voyage

Few voyages are as technically complex as the LNG voyage. With the LNG voyage's technical complexity also comes commercial complexity, which can negatively impact profitability for owner-operators and voyage costs for tonnage charterers if not properly managed.

From pre-fixture through loading, passage, and delivery, each stage of the LNG voyage lifecycle can be transformed with the right digital platform. Let's take a closer look.

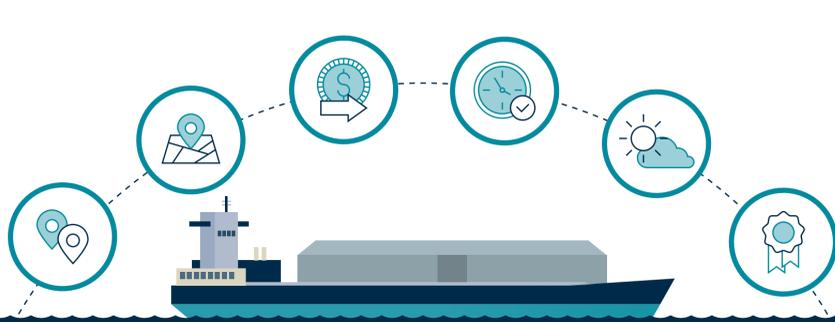
## PRE-FIXTURE

Account for every commercial variable.

The most critical stage of an LNG voyage is the chartering or nominations process. It is in this phase that decision makers account for a diverse range of variables, including the distance LNG cargo needs to move, its planned passage, the cost to move it, its anticipated arrival time, the conditions that will impact boil-off, and the best vessel and contract for the job.



Today, LNG tankers can carry upwards of **266,000** cubic metres.<sup>1</sup>



### WITH THE RIGHT DIGITAL PLATFORM...

owners, operators, and tonnage charterers can rapidly and scalably account for a full range of variables that impact the chartering and nomination process. Using a centralized platform, they can automate complex calculations, evaluate potential fixtures and their downstream impacts, and make the best possible commercial decisions.

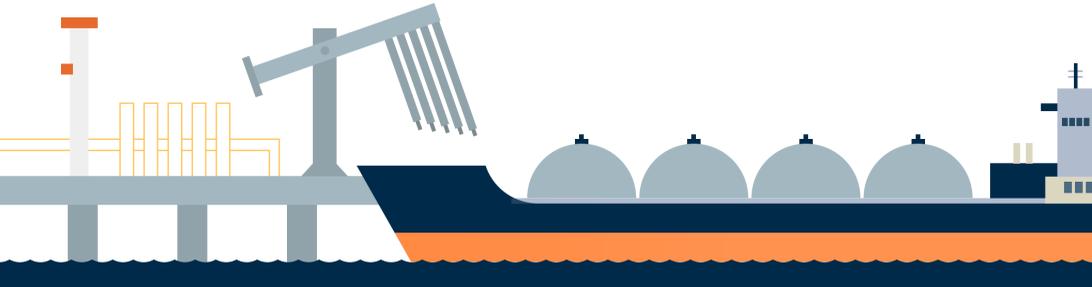
## LOADING

Onboard LNG efficiently to mitigate demurrage.

The LNG loading process is also complex, with significant commercial implications. LNG tankers must be inerted first, then cooled down to roughly -140° C before LNG can be brought onto the vessel.<sup>2</sup> The more heel reserved, the faster the cool down process. For the owner-operator and tonnage charterer alike, the time required to inert the tanks, cool them, and load the LNG is precisely tracked. The inability to do so will result in costly demurrage and missed timetables.



It's typical to keep between **5-10% OF HEEL** onboard every voyage.<sup>3</sup>



### WITH THE RIGHT DIGITAL PLATFORM...

owners, operators, and tonnage charterers can more effectively plan and manage anticipated and actual activities at berth, including the loading process. This provides them the ability to mitigate costly demurrage and effectively manage downstream impacts.

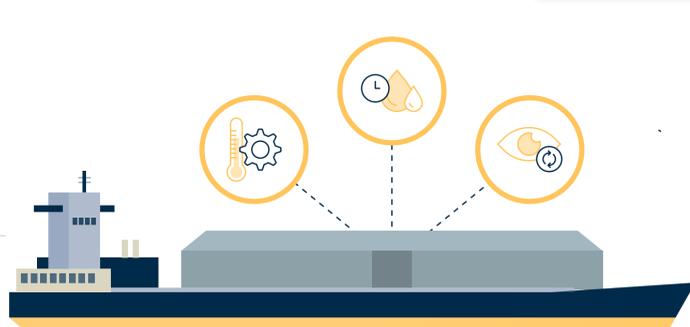
## PASSAGE

Manage consumption and safeguard profitability.

Once an LNG carrier is in motion to its final destination, the focus shifts to monitoring boil-off, fuel costs, and voyage progress. This requires continuous, real-time market analysis in order to optimize fuel decisions between forced boil-off cargo or bunker consumption. For tonnage charterers, full visibility into voyage performance can help manage costs and downstream expectations.



In a typical 20-day voyage, from **2-6%** of the total volume of LNG originally loaded is lost to boil-off.<sup>4</sup>



### WITH THE RIGHT DIGITAL PLATFORM...

owners, operators, and tonnage charterers can report against a full range of consumption curves and optimize the balancing act between fuel choice and cargo profitability. In addition, the right digital platform can provide complete visibility throughout the voyage to all stakeholders.

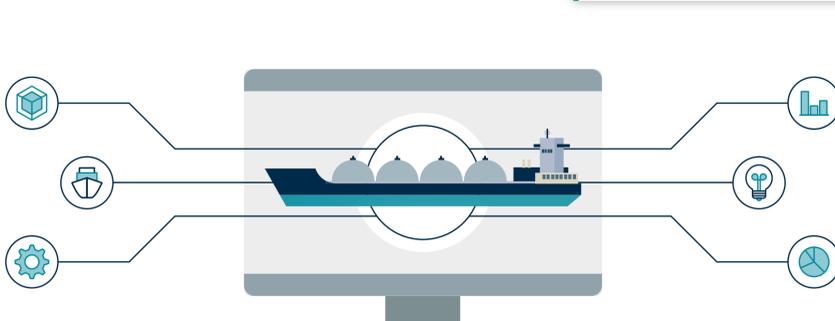
## DELIVERY

Inform downstream decisions.

Upon delivery, both owner-operators and tonnage charterers have important commercial decisions to make. Whether retaining heel or taking on ballast, managing claims, or properly allocating supply chain costs, it is imperative that all stakeholders are equipped with accurate and timely insights as they plan for what comes next, and those insights must be seamlessly integrated with downstream systems.



LNG product grew from roughly 222 million tonnes in 2010 to more than **400 MILLION** tonnes in 2020.<sup>5</sup>



### WITH THE RIGHT DIGITAL PLATFORM...

owners, operators, and tonnage charterers can make proactive, data-driven decisions to more effectively manage costs and timelines—all while accelerating internal processes and enabling business-wide continuity.



## The LNG Industry's Leading Commercial Platform

The Veson IMOS Platform (VIP) is the LNG market's leading platform for commercial freight and fleet management. Focused exclusively on the maritime space, VIP combines proven business logic with an agile, cloud-based architecture that is designed for global access, advanced data sharing, and seamless integration.



In addition to its unrivaled ability to manage complex commercial contracts, VIP delivers a powerful module that is specifically focused on addressing the unique nuances of LNG voyages. With VIP LNG, the intricacies of balancing fuel consumption and voyage P&L within the LNG sector are met with a robust and highly capable solution.



Learn more about VIP at [Veson.com](https://veson.com).

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1. <http://maritime-connector.com/wiki/q-max/9>  
 2. [https://en.wikipedia.org/wiki/LNG\\_carrier](https://en.wikipedia.org/wiki/LNG_carrier)  
 3. <https://rflame-guru.com/lng-carrier/>  
 4. [https://en.wikipedia.org/wiki/LNG\\_carrier#cite\\_note-ReferenceA-18](https://en.wikipedia.org/wiki/LNG_carrier#cite_note-ReferenceA-18)  
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