



MARITIME

ALTERNATIVE FUELS INSIGHT (AFI) PLATFORM

The AFI platform provides the shipping industry with an open platform for evaluating the uptake of alternative fuels and technologies.

The decision of the International Maritime Organization (IMO) to limit fuel sulphur content from 1 January 2020, and the recently adopted ambition to halve greenhouse gas (GHG) emissions by 2050, mean the world's future fleet will have to rely on a broader range of fuels and adopt novel propulsion solutions and energy efficiency measures.

All alternative fuel options are accompanied by benefits and challenges. Prerequisites for introducing a new fuel include the availability of sufficient production and distribution facilities as well as an adequate bunkering infrastructure. In addition, new fuels in many cases require extensive on-board modifications, which brings complexity and cost.

Overcome the obstacle of low transparency

By providing freely accessible tools for visualizing and analysing comprehensive and high-quality data, supplemented by an extensive collection of technical resources, AFI helps ship owners and other maritime stakeholders monitor the global uptake of alternative fuels and assess the best options for their own vessels.

DNV GL developed the AFI platform to support the shipping industry's transition to a cleaner, greener future. It provides a complete overview of developments of alternative fuels and technologies, covering both investments on ships and in bunkering infrastructure.

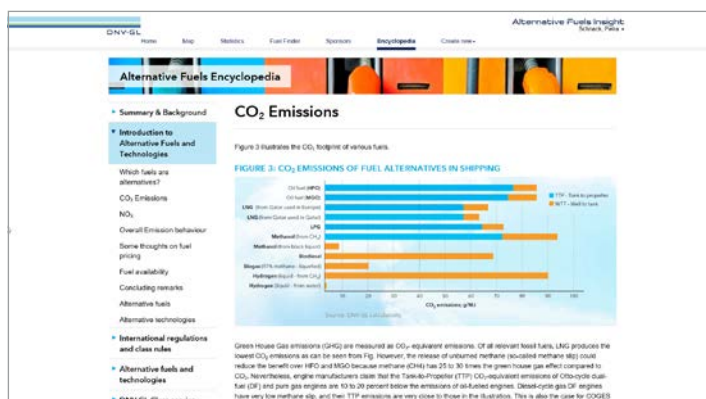
A core aim is to improve clarity for a range of stakeholders, allowing them to make informed decisions. It assists ship owners in selecting a fuel for the vessels they order today and in coming years, and fuel suppliers in weighing up investment in new bunkering infrastructure. Maritime authorities benefit from increased transparency, while equipment suppliers can gather intelligence for product development strategies.



The AFI platform offers different entry points to gather the required information.

Freely accessible quality data

- Bunkering infrastructure for LNG and methanol (coming soon)
- Uptake of LNG, LPG, scrubber, batteries and methanol
- Flexible visualizations based on quality-assured data
- Technical insights for making informed decisions



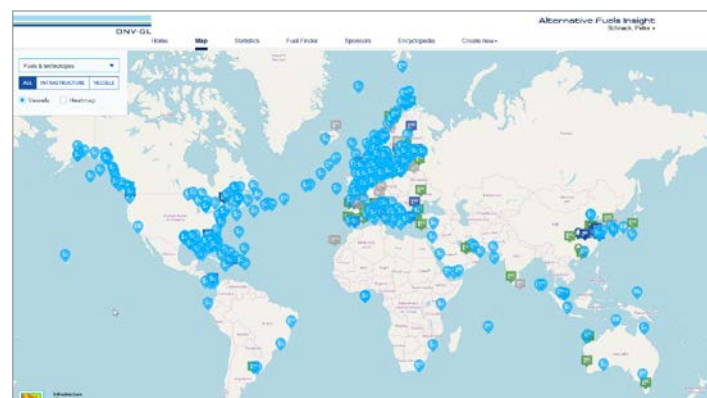
The encyclopedia provides detailed insight into the properties of a wide range of alternative fuels and technologies.

Accelerating market uptake

- Free access to reliable, up-to-date data on the uptake of alternative fuels and technologies
- Improved information base for making better decisions and developing an adoption roadmap

Your benefits with AFI

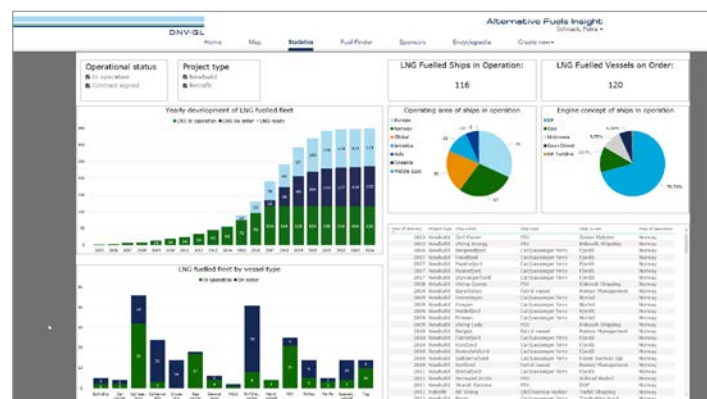
Because the maritime fuel landscape is continually evolving, AFI is not a static platform. To encourage industry collaboration, and to ensure the information presented on AFI is up to the minute, users can submit updates on the status of existing bunkering projects for alternative fuels or share details of new ones.



An interactive map displays vessels using alternative fuels and corresponding bunkering infrastructure.

Interactive Fuel Finder

- Ship owners can connect with suppliers of alternative fuels by submitting bunker requests
- Fuel suppliers can review and respond to unique bunker requests from ship owners



Statistics for vessels running on LNG, scrubbers, batteries, methanol and LPG can be retrieved.

Technical and financial benchmarking

- Additional benchmarking for scrubbers, methanol, LPG, battery and hydrogen
- High-level technical screening of alternative fuel project feasibility
- Financial benchmarking, including CAPEX, OPEX and fuel prices