

Carbon Baseline

Delivering validated historic carbon performance

- Validates years of emissions history in as little as 8 weeks
- Requires no costly human resources or onboard devices
- Uses fuel digital twins versus generic models



ESG initiatives, CII and ETS regimes, and impending EU and Asian carbon taxes are putting pressure on shipowners to invest in more accurate and automated ways to assess fleet emissions.

Current emissions models offer only rough estimates based on generic calculator models – requiring massive amounts of manual input – that don't account for chemical interactions, source fuel data, or supply and delivery chain impacts.

FuelTrust delivers accurate yearly emissions results using your historical operation data – **in as little as 8 weeks**. With proven and certified detail of your entire carbon emissions stack you can:

- Provide verified carbon emissions results needed for **CII and EEXI regulations** and 2024 carbon tax planning
- Measure the **ROI of efficiency investments** such as scrubbers, coatings, operational improvements, etc.
- Scientifically validate yearly emissions reduction in support of **2030 and 2050 IMO goals**

Companies that establish a scientifically validated carbon baseline for their fleet will have a commercial advantage.

Unlike other companies that use calculator tools based on generic estimates or require pricey and high-maintenance devices aboard vessels, FuelTrust uses patent-pending AI and science, along with your operational information, to deliver results through cloud-based automation, giving shipowners a commercial advantage to their bottom line.

“Achieving the goals of the Initial IMO GHG Strategy will require a mix of technical, operational and innovative solutions...” — International Maritime Organization

To ensure an **exacting detail of emissions measurement** for each vessel and each voyage we process tens of thousands of chemical simulations, **based on the chemical lab COA/COQs and fuel burn**. This allows us to determine the actual carbon and other exhausts calculated from the fuel used, the consumption patterns, voyage information, and annual fuel lifecycles.

Next, a **blockchain certificate for your emissions** production is created that becomes a fixed-in-time baseline for how your ship’s efficiency has operated in the past, and improvements made since.

FuelTrust is unique in that our **patent-pending technology** allows us to:

- Use **digital twinning** for fuel combustion analysis, resulting in actual carbon output for each voyage
- Analyze emissions history, **as far back as you have data** ⁽¹⁾
- Use AI to **significantly reduce the cost** of performing multi-year

All data is processed through FuelTrust’s blockchain-based Risk Provenance® Platform™, which provides **data security through encryption and permissioned transparency** to ensure only those parties that you authorize have access to your data.

Our team of AI and data experts are here to work with your team to make the necessary system integrations and help deliver you a **validated carbon baseline in less time, at the lowest cost.**

Carbon Baseline is a consulting engagement that delivers results in as little as 8 weeks

Contact us today to see how we can help: info@fueltrust.io

(1) Minimum data requirements: COA, BDN (or fuel volume invoice), Ship engineering day logs and vessel particulars information/engine type