



MARITIME

ECO INSIGHT

The fastest way to effective fleet performance management

Smart performance management solutions help to save fuel, cut emissions and lower operational costs. By making fleet performance visible and easy to understand, our solutions guide ship owners and operators to taking the right actions for improvement.

The challenge: Knowing your vessels' performance

There is a range of fuel-saving measures available on the market today. To set the right priorities within your budget constraints, you need insight into your vessels' actual performance, how they compare to others and to industry benchmarks.

The groundwork in achieving this has already been laid: A large variety of operational data is collected onboard ships, including noon reports, voyage reports and bunker reports, as well as automatically reported real-time data. But how can these data be effectively utilised? What do you do with the large amount of fleet data piling up over time? Can you trust the data collected – is it effectively stored, aggregated and presented in a way that allows sound analysis of operations and you to take the right management decisions? Do you need to set up a complex and time-consuming performance management system?

The answer: ECO Insight

The ECO Insight portal compiles and displays all the relevant ship performance data and allows in-depth data analytics and continuous fleet performance management. ECO Insight uses the existing processes in your shipping company, without the need for additional and often costly hardware investments onboard for collecting data. You are now in a position to easily access your entire fleet performance data and sort and compare vessels. The information can be grouped in any fashion you choose: different timelines can be investigated as can various operational modes. Last but not least, you can draw conclusions on the fleet's performance compared to your defined KPIs and view benchmarks for comparable vessel categories from other users on the portal.

The ECO Insight solution offers:

- All major fleet performance topics, organised in a logical structure on a Web-based performance management portal
- Industry best-practice dashboards for voyage, hull & propeller, engine & systems performance, e.g. operational modes, consumptions, speed profiles, weather conditions, trim adherence, EEOI development, emissions, SFOC, RPM, loads, pressures, running hours
- Hull degradation based on detailed Computational Fluid Dynamics (CFD) results from the award-winning trim optimisation software ECO Assistant
- Comprehensive means to compare, analyse and benchmark data by filtering, sorting and grouping according to your needs
- Access to key industry and community data, such as from AIS or other portal users, to benchmark your own performance against others
- Advice, issue awareness and troubleshooting on top of regular performance reporting by skilled DNV GL experts optionally available as decision-making support
- Navigator Insight - a complete ship-to-shore data collection software, using existing reporting processes, without additional effort for the crew, and leveraging many plausibility checks to ensure data quality

VOYAGE PERFORMANCE



HULL & PROPELLER PERFORMANCE



ENGINE & SYSTEMS PERFORMANCE



The ECO Insight portal and Navigator Insight software are the two building blocks of our unique and effective performance management solution. They eliminate the need for a tailor-made IT/hardware solution or to hire additional personnel for best-practice performance management.

Your benefits with ECO Insight:

- Know your fleet performance instantly: Predefined, industry best-practice dashboards and a hosted Web-based portal with a user-friendly layout allow you to start analysing your fleet performance within weeks, not months, after subscribing to ECO Insight

- Low capital expenditure: ECO Insight uses the existing processes in your shipping company and does not require any additional IT or hardware investment onboard
- Flexibility: You may equip your fleet of any size or age as it grows or is made leaner - for instance, a chartered-in fleet can easily be added or removed from the portal
- Benchmark against other players in the market: Unique benchmarking capability displays your performance benchmarks against others in an anonymised way, allowing you to genuinely track how you perform relative to the market
- Data analytics powered by DNV GL experts on request: Should you require further help regarding root cause analysis, our technical staff is happy to assist you with tailored advice for decision-making support

SAVING FUEL WITH ECO INSIGHT

A vessel operator utilises four sister vessels in the same trade pattern, and these report data to ECO Insight. Using ECO Insight's voyage dashboard, significantly different speed profiles on comparable voyages were detected, which led to additional waiting times. Further root-cause analysis, directly accessible through the ECO Insight filter and comparison functions, revealed that neither weather conditions nor cargo nor schedule restrictions played a significant role.

Working closely with the vessel's crews, an action plan for adherence to the target speed was defined. Overall, average vessel speeds could be reduced by 0.5 knots without changing schedules. The vessel operator expects fuel savings of 3 per cent or USD 100,000 per year per ship by implementing this measure.

ECO Insight is the fastest way to an industry-leading performance management. It helps to reduce your fuel bill and other operational costs, and makes your vessels more attractive in the market.

And we will not stop there. Further data sources will be integrated into ECO Insight, giving you a one-stop portal for insight into ever more operational topics. We look forward to introducing you to ECO Insight and performing a demonstration for you. Simply contact us!

Energy efficiency from the experts

DNV GL's Maritime Advisory is specialised in impartial maritime consultancy and advanced engineering services, with a focus on enhancing energy efficiency both in design and operation. Our experienced staff has leading technological expertise across all ship segments and helps ship owners, operators, yards and designers globally to improve fuel efficiency, minimise environmental impact and increase profitability. We are the largest maritime advisory company with a global presence: more than 300 experts support the industry in the key challenges of today.