

Blueflow

Energy Management System

NEW



The energy management system Blueflow helps you manage your vessels' energy sources. It presents consumption and energy efficiency data on intuitive graphical user interfaces onboard your vessel and collects and sends data to a cloud platform for secure storage and easy data analysis.

The system consists essentially of two parts: Online and Onboard.

Online is a secure platform that stores vessel data locally every second. Ultra-fast data processing enables almost unlimited possibilities to find complex relationships of the data on a vessel. These findings can be used to reduce energy consumption, make diagnostics, take comprehensive reports and increased knowledge of a vessel's performance.

Onboard integrates with various other onboard systems and flowmeters to monitor fuel and energy consumption and other parameters in real-time. Parameter data are sent online for reporting, analysis and verification. Various displays can be installed for eco-driving and monitoring of energy consumers.

Monitoring, advisory & analysis

Real-time monitoring, advisory & analysis with onboard and online visualisation of:

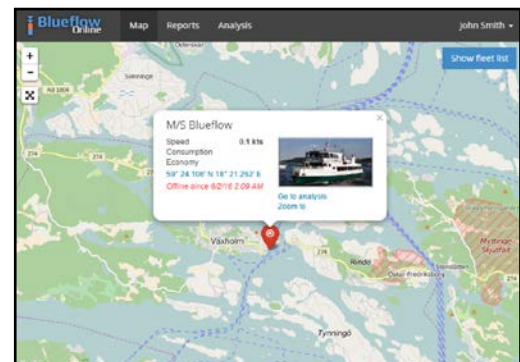
- Fuel economy, optimised speed and routes
- Actual power consumption and load management
- Trim, rpm and pitch control
- Engine data and efficiency management
- Relative wind, speed, depth and heading
- On-line data reports, analysing tool, MRV reports, maps, route locations

ECO-trip monitoring

Comparing current trip with historical trips provides you with instant feedback on the progress and how you perform at the current trip.

Blueflow features

- ▶ Proven data analysis shows that with the right attitude and commitment of the operators it is possible to reduce the energy consumption by 50%
- ▶ In most cases, the payback period for installing the Blueflow energy management system is less than one year
- ▶ Blueflow includes powerful analysis and reporting tools for the operators to evaluate their actions and results
- ▶ Optimised route planning
- ▶ Fleet overview and locations
- ▶ MRV reporting made easy with Blueflow



Date	Speed (kts)	Distance (nm)	Conc (L/h)	Conv (L)	Fuel economy (L/nm)	Based on
2/4/16	2.1	50.9	3.0	216	4.3	10
2/5/16	1.5	36.5	4.5	155	4.2	10
2/6/16	1.8	44.3	9.4	226	5.1	10

Date	Speed (kts)	Distance (nm)	Conc (L/h)	Conv (L)	Fuel economy (L/nm)	Based on
2/4/16	3.3	78.7	13.2	318	4.6	10
2/5/16	3.3	79.4	13.5	324	4.1	10
2/6/16	3.3	78.0	13.5	324	4.1	10

