

Nauticus Air and Nauticus Environment

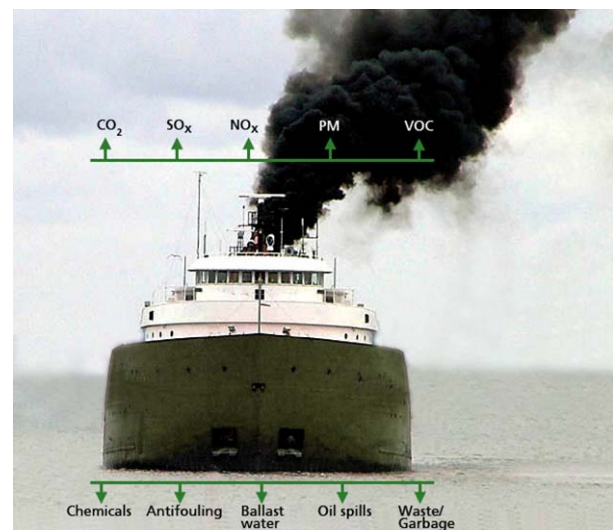
Professional management of your environmental issues at sea

DNV offers Nauticus Air and Nauticus Environment to help companies better monitor their environmental performance. The focus on sustainable growth as well as reducing global warming and the need to control downside risks, implies a higher monitoring of environmental factors in ship operation.

The Environmental Performance System from DNV, offers an easy, low-cost way for ship owners and operators, offering the modules Nauticus Air and Nauticus Environment.

The system is configurable to customer needs, based on maritime best practices. Doing the right measurements, the environmental indicators provides you information on emission to air, waste handling, and discharges to sea.

By reporting on fuel usage, distance sailed and cargo, from the vessels, the Operational CO₂ Index and other environmental indicators are calculated.



Benefits

- Supports international standards including Global Reporting Initiative standards, ISO 14001, and IMO MEPC Circ./471
- Produces CO₂ Index charts for the vessels in your fleet (Nauticus Air) or a total overview of your environmental profile (Nauticus Environment)
- Emission factors and calculations verified by DNV
- Benchmark and profile environmental performance internally and externally
- A flexible way of reporting according to defined indicators, aggregation levels and user access rights
- Web application delivered as Software as a Service. Optional registration mechanisms



Nauticus Air and Nauticus Environment

Emissions to air – CO₂ Index for shipping

The shipping industry is facing strong international pressure to reduce its CO₂, NO_x and SO_x emissions. Also economic instruments are being established on national level. In this respect, the guideline proposed by the IMO for a standardised CO₂ index is a suitable measure to use (MEPC Circ./471). The index is calculated on the basis of consumed fuel, transported cargo and distance sailed, and carbon emission factors.

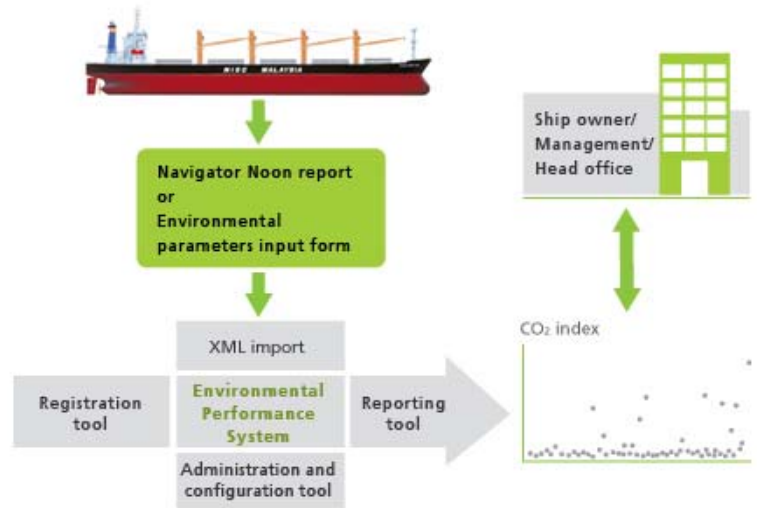
Computed index values can be compared for a fleet, sister ships or specific periods of time and eventually be used to minimise emissions from transport. This benchmarking approach can contribute to drive the shipping industry towards higher energy efficiency and lower emissions.

Nauticus Air

Nauticus Air offers registration of fuel consumption, transported cargo and distance sailed. Using the calculation method and carbon emission factors specified and recommended by IMO, the operational CO₂ index is calculated on a day-by-day basis or over a selected period, such as a voyage leg, and shown in graphical charts. Other air emissions such as SO_x, NO_x and CH₄ are shown in the reports.

Optional data input methods

Data may be registered on the vessels via the noon- and port-reports in DNV Navigator product, or via a specific input form. The xml-files are sent via mail to the server and imported into the central database. With internet connection, the users may also use the web registration tool directly.



Nauticus Environment

Nauticus Environment is the extended Environmental Performance System based on maritime best practice. In addition to the CO₂ Index, it also includes registration and reporting on other aspects as: discharges to sea, ballast water, chemicals, etc. - configurable to your company's needs and set up.

Why improve management of your company's environmental performance?

- The global warming and climate change make concrete initiatives important.
- Awareness and attention on environmental issues leads to improved quality and performance in other areas.
- Positive and convincing environmental management is an important tool in the marketing process at all times.
- Charterers, authorities and other stakeholders are increasingly demanding continuously improved environmental performance.
- Provides the basis for compliance with formal reporting requirements.

DNV Software

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DNV Software is the commercial software house of DNV serving more than 3,000 customers in the marine, offshore and process industries.

DNV Software is a market leader in software development of design, strength assessment, risk and information management.

MANAGING RISK

