



## Compliance with EU MRV / IMO DCS Requirements

AMC NEWS  
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### EU MRV

From 1 January 2018, all ships above 5000 GT calling at EU Ports will have to monitor and report their CO2 emissions and have them annually verified by an independent third party. As per Regulation (EU) 2015/757, Owners / Operators have until 31 August 2017 to prepare and submit a Monitoring Plan (MP) for each vessel to their Verifier.



### IMO DCS

A similar scheme has also been adopted by IMO; according to Regulation 22A of MARPOL Annex VI which enters into force on 1 March 2018, all ships above 5000 GT will have to report their annual CO2 emissions from 1 January 2019 onwards. Owners will have to update their Ship Energy Efficiency Management Plans (SEEMP) and submit them to the RO before that date.



Having prepared more than 2000 SEEMPs, developed more than 100 Environmental / Energy Management Systems as per ISO 14001 / 50001 and conducted more than 50 Energy Audits onboard ships, AMC is able to offer a turn-key solution for Monitoring Plan and reporting system development.

Notwithstanding the above, AMC can also customize the solution to meet specific Client needs, such as TMSA compliance (performance assessment / trends, third party benchmarking, etc.), compliance with voluntary schemes (e.g. WPCI ESI, CCWG), etc.

### Services Offered

AMC provides two distinct packages, addressing the needs of small and larger fleets respectively:

1. The **Standard** package consisting of a ship-specific Monitoring Plan (in accordance with EU MRV requirements) and a reporting form in simple Excel format, replacing the current Vessel Environmental Performance Report form in use onboard more than 2000 vessels, upgraded to include all relevant data fields for EU MRV but also EEOI, SOx & NOx calculation; and
2. The **MARVEL+** package, which includes our standard services (Monitoring Plan, training modules, etc.) coupled with HELINTEC's Vessel Reporting System (VRS), an onboard software reporting tool with source data validation, automatic synchronization facility and a fleet monitoring interface in the office. EU MRV / IMO DCS Annual Emissions Reports & Environmental / Energy Performance Indices (KPIs) graphs / tables are automatically generated and benchmarked against a database of more than 1000 vessels.



Through our long-standing cooperation with HELINTEC we are also able to enhance the MARVEL+ package with the performance monitoring modules of the SEMT system, which has already been successfully installed onboard more than 1000 vessels, as follows:

1. **Hull & Propeller Performance module** (optional), to assess a vessel's daily performance against reference (e.g. sea trials) data, compare voyages / periods between sister vessels, quantify the effect of hull / propeller cleaning, calculate expected consumptions based on user-defined conditions, etc. (based on actual physical modeling as per ISO 19030).
2. **Charter Party Performance module** (optional), to evaluate each voyage and estimate any over / under-consumption and time gain loss based on given Charter Party restrictions / allowances. The performance during "bad weather days" may also be included after adjusting for weather effect.