Maritime Carbon Compliance
Are you ready for mandatory CO$_2$ emissions reporting?

www.pwc.nl
Background

Following the largest emitters in stationary installations and aviation, maritime is the next sector in line to be affected by the EU regulations on greenhouse gas (GHG) emissions. With its flagship EU Emissions Trading System (EU ETS), the EU has been regulating emissions and successfully enforcing emissions reduction through a cap and trade system since 2005.

Just like aviation, maritime is a global sector and therefore a global system to regulate emissions is the preferred solution. While the international discussions for a global system continue - for example with the International Maritime Organization (IMO) - the EU has taken a proactive approach and decided to implement a mandatory Monitoring, Reporting and Verification (MRV) system for the maritime sector as of 2018, although initial requirements will take effect as early as 2017.

What’s going to change?

Starting July 2019, ships arriving at, within or departing from a port under the jurisdiction of a Member State, and which have carried out voyages during 2018, need to carry a valid document of compliance (DOC) on board. A DOC will be issued by an accredited verifier when the ship’s Annual Emissions Report outlining the emissions data from voyages has been verified and found to be free from material misstatements and in accordance with the ship’s monitoring plan. This plan will also need to be assessed for compliance with EU legislation.

PwC involvement

PwC’s purpose is building trust in society and helping our clients and society with business challenges and their preparations for the future. At the moment, PwC is supporting the European Commission in detailing the design of the MRV system for the maritime sector. The final requirements will be published in summer 2016. PwC has been asked to support the European Commission in finetuning the requirements, because of our extended knowledge and experience in MRV regulation.

PwC has the right team of sustainability experts on the developing MRV regulations combined with hands-on experience and specialised tools tailored to the shipping industry to assess your existing monitoring and reporting processes in order to address the challenges imposed by the new Regulation and help companies reduce the risk of non-compliance.

Through PwC’s Maritime Sustainability Centre you can gain access to tools and systems that have been developed specifically to support ship-owners monitor numerous Key Performance Indicators (KPI’s) with respect to their vessels operations and to improve their fleet’s energy performance, reducing the fuel costs and associated carbon emissions.

We can help to build and increase confidence to your stakeholders by validating, interpreting and benchmarking your fleet data drawing important conclusions regarding performance and energy efficiency.
How can shipping companies prepare?

Complying with these new regulations has implications for shipping companies with vessels > 5,000 gross tonnes from an operational, administrative and financial perspective. We have visualised the voyage to compliance for shipping companies in the figure below.
How can PwC help?

PwC can help you in a variety of ways. The table below summarises the main challenges shipping companies are likely to face in the process towards compliance. Please refer to the overview of key contacts below in case you have specific challenges you would like to discuss.

<table>
<thead>
<tr>
<th>Your challenge</th>
<th>Our solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Understanding the requirements</td>
<td>PwC, advisor to the EU Commission on the implementation of the MRV regulation, can assist you in building a thorough understanding of the requirements. We can help you prepare for compliance by sharing our deep understanding of the MRV regulations in workshops or seminars. Our experience across all industry sectors, as well as our knowledge and experience with similar schemes will benefit you, as we understand the pitfalls and commonly made mistakes.</td>
</tr>
<tr>
<td>Identification of required changes to your processes</td>
<td>We help you in identifying required changes to operational and administrative processes &amp; systems, and advise on a sustainable and cost-efficient implementation.</td>
</tr>
<tr>
<td>Design and implementation</td>
<td>PwC’s Global Knowledge Center on Maritime Transport combines all knowledge and experience of cross-functional and industry professionals covering all the key areas of the maritime transport sector. We can provide support in the design and implementation of your MRV management &amp; control system, in identifying relevant risk areas and assessing the conformity with the MRV Regulation.</td>
</tr>
<tr>
<td>Are we ready for compliance</td>
<td>We can assess your compliance readiness and provide you with the feedback you need to complete the first verification successfully. By performing pre-verification procedures we can identify any areas where compliance with the MRV rules and requirements may need attention.</td>
</tr>
<tr>
<td>Need for an accredited verifier</td>
<td>PwC has vast experience in similar verifications in aviation and stationary installations, and can provide an approval of your Monitoring Plan and the verification of your Annual Emissions Reporting.</td>
</tr>
</tbody>
</table>

Contact information

For more information, please contact one of our maritime sector specialists in your region:

Netherlands

Hans Schoolderman
Global Carbon Verification Leader
+31 (0)88 792 7658
hans.schoolderman@nl.pwc.com

Isis Bindels
Transport & Logistics leader
+31 88 792 3603
isis.bindels@nl.pwc.com

Dennis Mes
Carbon monitoring & verification specialist
+31 (0)88 792 64 59
dennis.mes@nl.pwc.com

Jan-Ludolf Heeres
Carbon monitoring & verification specialist
+ 31 (0)88 792 18 19
jan.ludolf.heeres@nl.pwc.com

Greece

Socrates Leptos - Bourgi
Global Shipping Leader
+30 210 687 4630
socrates.leptos.-bourgi@gr.pwc.com

Helena Athoussaki
Head Of Maritime Sustainability Centre
+30 210 6874 421
helena.athoussaki@gr.pwc.com

Germany

Claus Brandt
Shipping leader
+49 40 6378-1607
claus.brandt@de.pwc.com

Italy

Francesco Sacchetto
Director Sustainability
+39 010 566287
francesco.sacchetto@it.pwc.com