

The Role of Classification Societies in MRV Regulation

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International Propeller Club – Port of Genoa

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Background to MRV - The Commission's 2011 White Paper

GHG emissions: due to human activities

Global warming: ongoing increase in temperature

Climate change: non-natural, due to global warming

Is the climate changing?











The climate is changing as a result of human activity

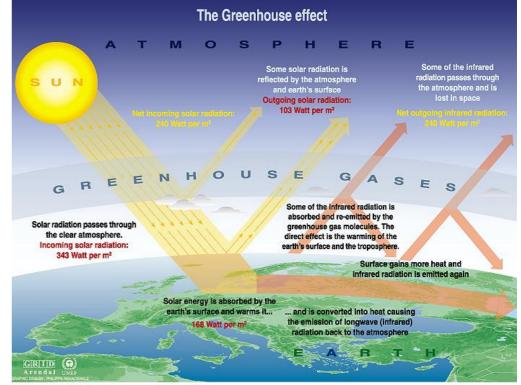
83%

The climate is changing. but not as a result of human activity

9%

5% The climate is not changing

3% I'm not sure



Sources: Okanagan university college in Canada, Department of geography, University of Oxford, school of geography; United States Environmental Protection Agency (EPA), Washington; Climate change 1995, The science of climate change, contribution of working group 1 to the second assessment report of the intergovernmental panel on climate change, UNEP and WMO, Cambridge university press, 1996



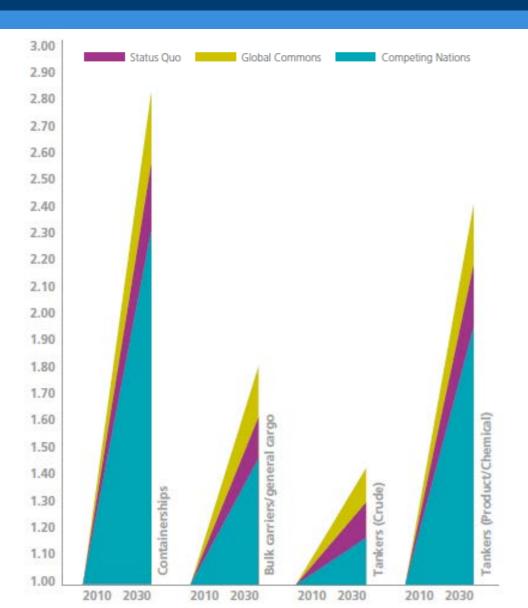




Global Marine Fuel Trends 2030



Global Marine Fuel Trends 2030

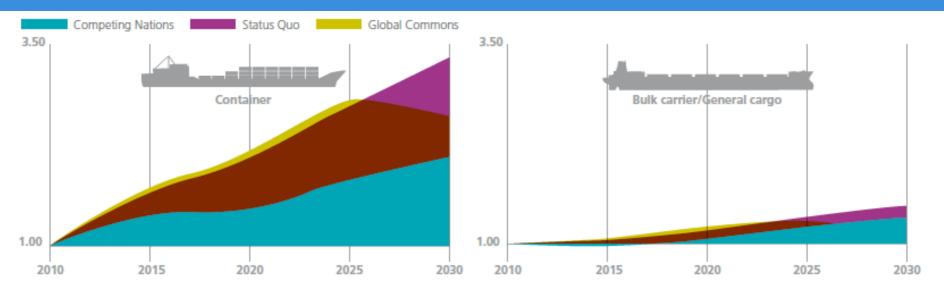


Trade projections per ship type, relative to their 2010 baseline

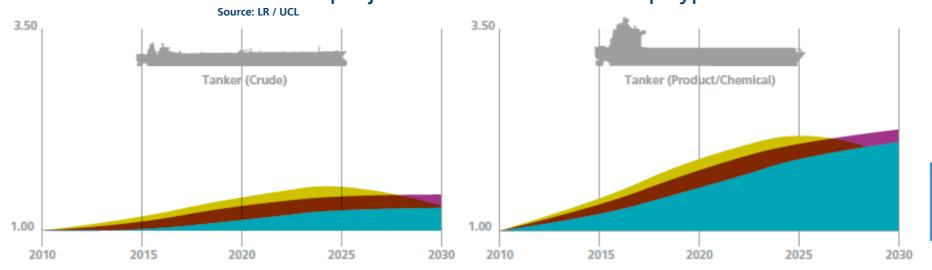
Source: LR / UCL



Global Marine Fuel Trends 2030



Emissions projections for individual ship types





Global Marine Fuel Trends 2030



HFO will still be very much around in 2030, taking 47%-66% of the fuel mix

LNG will reach a maximum 11% share in 2030.

In Status Quo, shipping emissions will double by 2030.



The Role of IACS in the EU MRV Regulation Development

Member of the European Commission Expert Groups

Active role in the Group "European Sustainable Shipping Forum"

Key Player in Subgroup: MRV Monitoring

Key Player in Subgroup: MRV Verification and Accreditation

LR already have experience of similar schemes



- Aviation
- Land-based installations
- UKAS accredited

Corporate reports

- · GHGs verification
- CO₂ data and information verification



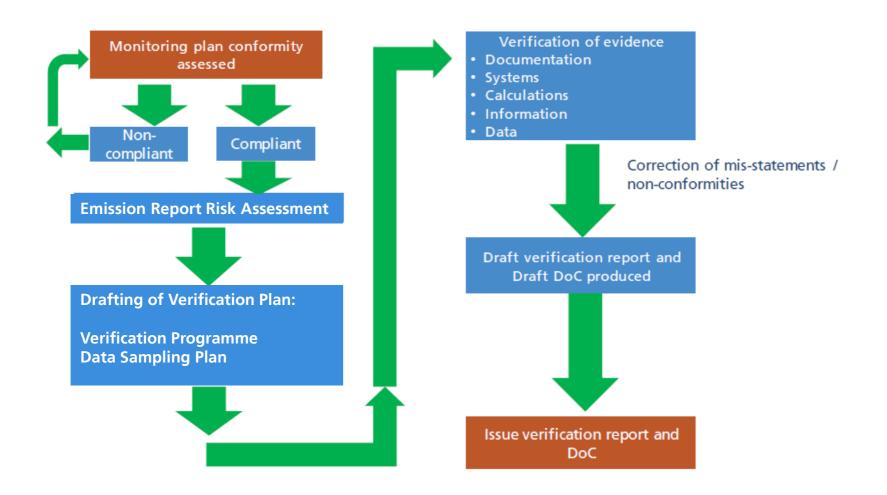
- Quantification and reporting of GHG emissions verification
- UKAS accredited

We already provide

- Verification
- Gap Analyses
- Training
- Facilitation
- Consultancy



What might the verification process look like? Commission Delegated Regulation 2016/2072





How does the Document of Compliance Template look like?

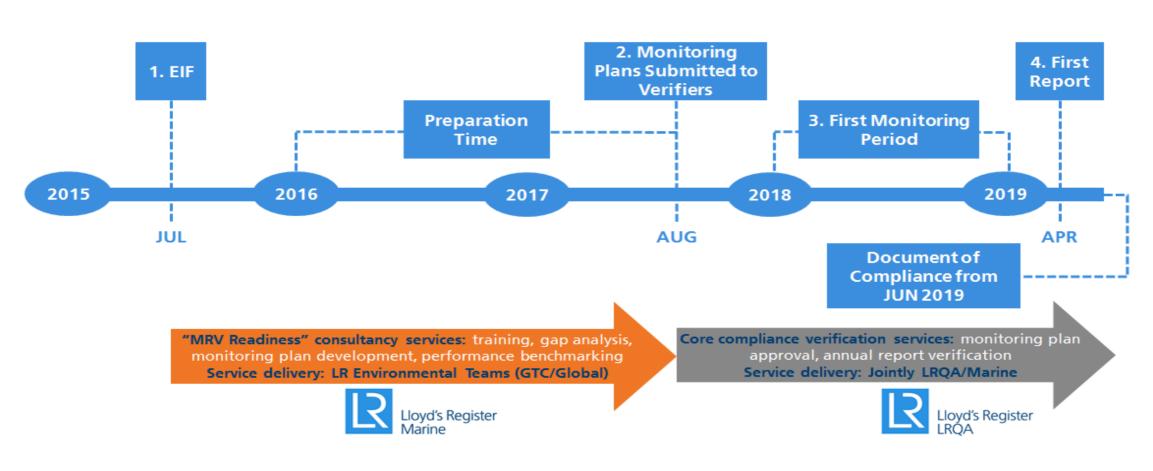


Thetis MRV, will be available for companies and accredited verifiers so that they can use it to electronically submit satisfactorily verified emissions reports and related documents of compliance to the Commission and flag States as per Implementing Regulation (EU) 2016/1927



LR Services

Regulatory timeline and actions required by Clients



Where can I get up to date information?

Lloyd's Register: <u>www.lr.org/mrvreadiness</u>

LRQA: http://www.lrqa.it/standard-e-schemi/mrv-regulation/

EU: www.ec.europa.eu/clima/policies/transport/shipping/index_en.htm



Consultancy services brochure For MRV Regulation



Guidance for Ship owners Client guidance on the MRV Regulation



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