



Maritime Energy Reduction Assessment (MERA)

Overview

QinetiQ's Maritime Electrical Systems Team (MEST), part of the Maritime Systems Platform Design and Life Support (PDLs) operation based at Haslar in Gosport, assists the global marine industry, (both commercial and naval), by conducting Marine Energy Reduction Assessment (MERA) projects for both platforms and port operations, using highly experienced and qualified maritime electrical Subject Matter Experts (SMEs).

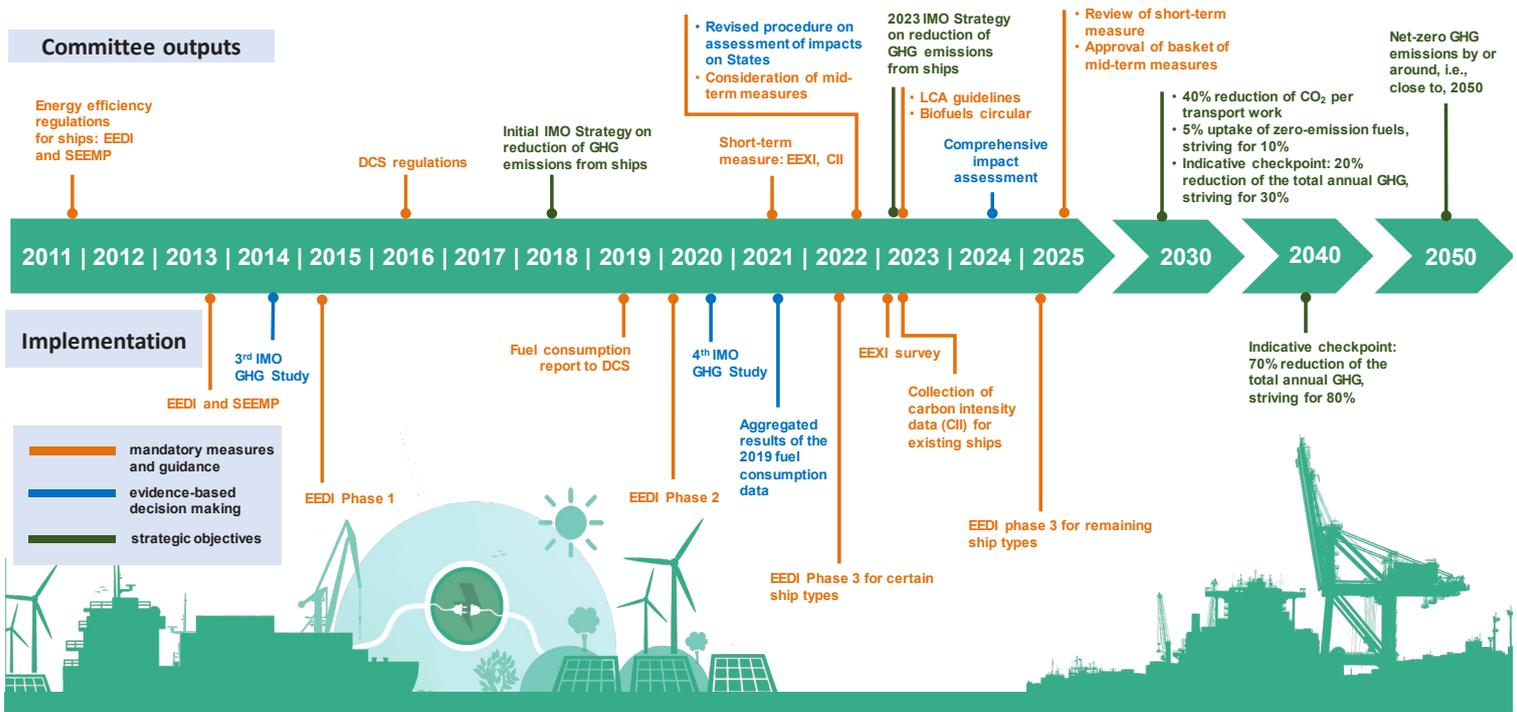
Capabilities

Our expert support is well versed at developing MERA by reviewing energy consumption for either military surface and sub-surface vessels, auxiliary and commercial vessels, as well as ports installations. Developing a MERA by using QinetiQ's highly experienced maritime engineers enables vessel operators and port facilities teams to better understand present day utilisation of electrical energy, as well as what measures can be taken to reduce energy use and improve greenhouse gas (GHG) emissions. Typical projects feature energy saving surveys to meet impending IMO 2030, 2040 and 2050 targets, with work projects established through electrification and conventional refit and AMP support tasks.

Featuring a team of suitably qualified and experienced persons (SQEP) and marine electrical SMEs, with significant experience of maritime electrification projects, QinetiQ can act as your SMEs or technical superintendents are able to support end users with focussed expertise in various areas of ship and port operations.

Addressing climate change

Over a decade of regulatory action to cut GHG emissions from shipping



Some of the expertise includes:

- Excellent knowledge of maritime platform systems and equipment with an excellent relationship with MOD platform teams, particularly T23 and MCM COM.
- Strong relationships with Electrical Power and Propulsion OEM's which have extensive operational experience of various plant configurations including 'HV Cold Ironing' and 'Battery Systems'.
- Understanding and experience of introducing decarbonisation initiatives including aspects of damaging harmonics from power electronics that need to be carefully assessed to avoid THD.
- Excellent commercial cruise, ROPAX and MoD maritime domain expertise.
- The ability to examine systems and identify vulnerabilities and deviations from class and flag requirements, including power quality and harmonics issues.
- Specific support can also be provided during assisted maintenance periods (AMP's) and refits periods (RP) globally to introduce and monitor energy efficiency systems in readiness for IMO compliance.
- This can also include managing OEM project management of upgrades to power and propulsion, as well as automation systems.



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