

# IMPROVE YOUR GHG RATING, ENHANCE YOUR EDGE

Lower CO<sub>2</sub> emissions, that drive more sustainable operations, are a key metric for many ship charterers when making chartering decisions.

To help owners improve GHG ratings, ABS offers a variety of services and solutions including benchmarking, verification of efficiency measures and calculations, and vessel optimization. As improvement measures are taken and new vessels enter the market, GHG ratings are subject to change, therefore it is important to continuously monitor vessels' GHG ratings.

## EVALUATING CURRENT RATING

Some of the major environmental rating organizations suggest having efficiency measures and calculations independently verified by classification organizations. There are cases where the vessel's current rating has improved just by ABS verifying the calculations.

- **Gathering the Right Information** - Assigning GHG ratings requires an accurate speed power curve. Data to calculate an accurate speed curve may be difficult to obtain. For example, vessels built prior to 2013 had speed-power prediction for the design or ballast drafts, but not at the scantling draft.

Because this is such a key component of the GHG rating calculation, ABS has developed tools that emphasize the estimation and calibration of the speed-power curve at the scantling draft corresponding to the sea trial condition. This ensures that all pre-requisite

information is prepared to allow for the estimation of the GHG rating.

- **Verification** - ABS can provide the necessary verification, helping you demonstrate to your environmental rating organization that you have taken the steps to record your vessels' energy use and efficiency. Gaining verification of efficiency measures and calculations may improve your environmental ratings. An example is verifying results of model tests for Energy Saving Devices (ESD) that are retrofit on your vessel, with measurements taken during voyages.





## BENCHMARKING

Understanding how your vessel compares to others in its peer group, those of similar type and size, can help you determine if it is advantageous to improve your GHG rating. Through its benchmarking service, ABS compares your vessel within the applicable peer group. Once you know how your vessel compares to others, you are better prepared to make decisions.

## IMPROVEMENT OPTIONS

ABS offers a variety of services to assist owners in improving their GHG ratings. Improvement options through implementation of Energy Efficiency Technologies and/or Engine Power Limitation are among the methods used, enabling ship owners to choose the solution best suited for their vessel.

ABS offers a broad spectrum of technical reviews, evaluations and life cycle cost analysis. ABS services are applicable to new construction and existing vessels and include:

- Energy Saving Device (ESD) Evaluation
- Engine Power Limitation (EPL) Method
- Minimum Propulsion Power assessment
- Verification of efficiency gains from modifications
- Bulb replacement guidance

For all of the GHG rating services, a report is issued summarizing the findings and options for improvement.



To learn more about how ABS can help you improve your GHG rating, please contact us at [advisoryservices@eagle.org](mailto:advisoryservices@eagle.org).



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