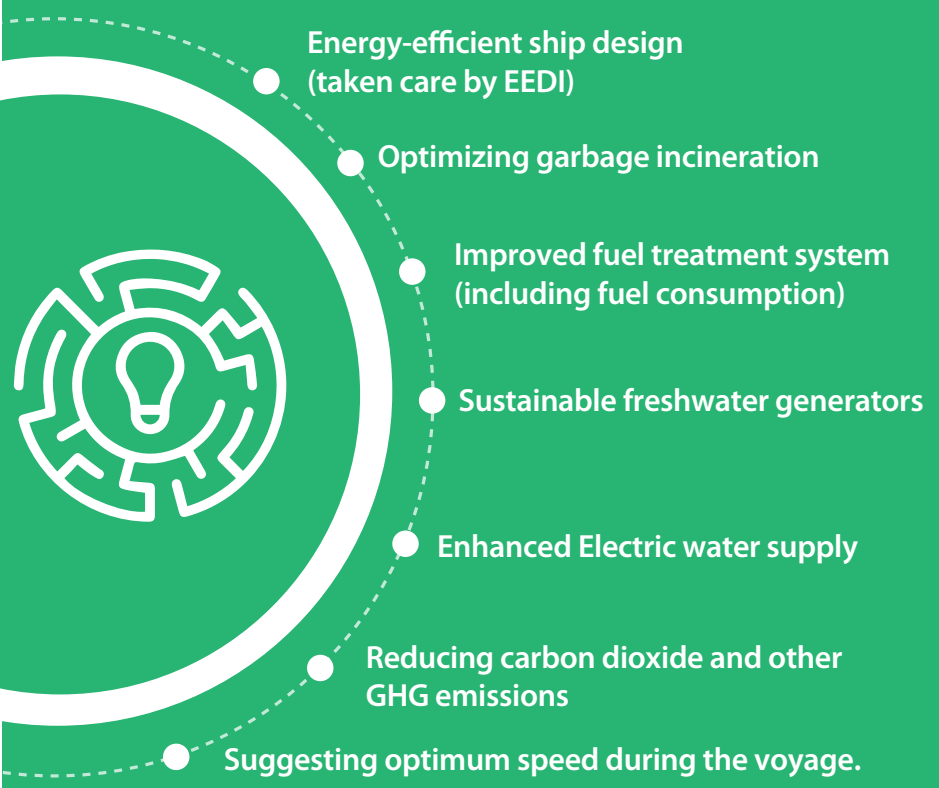# CiRG Labs

Optimizing Ship Energy Efficiency Management Plan, a step towards the green economy

Green Economy

CHALLENGES

The shipping industry is presently struggling with its complex systems merging diverse technology within a small space.
Major challenges include:

- Energy-efficient ship design (taken care by EEDI)
- Optimizing garbage incineration
- Improved fuel treatment system (including fuel consumption)
- Sustainable freshwater generators
- Enhanced Electric water supply
- Reducing carbon dioxide and other GHG emissions
- Suggesting optimum speed during the voyage.

SOLUTIONS

Our team proposes a multi-facet approach. The system will automatically recommend operational measures considering all the important aspects.

Potential technologies including fuzzy systems, blockchain, and machine learning are employed.

Blockchain monitors and reports the ship's annual fuel consumption keep track of fuel consumption every year.

Fuzzy logic helps in analyzing the situation considering environmental, economic, climatic and political consequences.

BENEFITS

The proposed model sets an example of how the latest technologies assist in developing potential options for curbing emissions in this sector.

- Enhanced ship efficiency management plan is achieved
- Reduced carbon emission which helps in improving global warming
- Persuade new ship designs with more proficient engines
- Win-win practice for both planet earth and shipping industry by escalating energy efficiency which itself will trim down fuel consumption

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