

[Evaluation](#)

Executive Summary

This is an intriguing approach, but it is heavily reliant on successful technological development in the future. Please take into account the bottle neck on the same.

None

Compliance

Please kindly find more details on the NOx emission for your biofuel. Ship owners are bound to follow the IMO and Annex VI of MARPOL regulations, there such information will be essential for them.

Please obtain the SOx emission report for you biofuel. It is required for compliance to the MARPOL Convention Annex VI (Regulation on the prevention of air pollution from ships). Ferry operators will require information on the same for considering the biofuel.

Please obtain the SOx emission report for you biofuel. It is required for compliance to the ISO8217:2017. Ferry operators will require information on the same for considering the biofuel.

Economical

Your biofuel's emission reduction range corresponds to the IMO's aim of 50% reduction by 2050. The GHG reductions (of 35%-70%) provided by your biofuel is compareable with other renewable fuels such as UCO (typically 80-90% reduction when compared to fossil fuel).

Biodiversity, or the variety of all living things on our planet, has been declining at an alarming rate in recent years, mainly due to human activities, such as land use changes, pollution and climate change. Declining biodiversity lowers an ecosystem's productivity (the amount of food energy that is converted into the biomass) and lowers the quality of the ecosystem's services (which often include maintaining the soil, purifying water that runs through it, and supplying food and shade, etc.). It is typical of many bioenergy production procedures. It is remarkable that your biofuel is able to increase the biodiversity. Such increase in biodiversity should be rigourously monitored (and audited) and flagged in all communication. Having said that there is no compliance requirements on the same,.

Technical

It is nice to know that you have developed the GHG focusing on Scope 2. But, please consider that for certification (ISCC) the companies will be looking at the scope 3 emission. Scope 3 emissions are a consequence of the activities of the company, but occur from sources not owned or controlled by the company. Scope 2 ? Electricity and heat indirect GHG emissions ? this accounts for GHG emissions from the generation of purchased electricity and heat consumed by the company. Purchased electricity is defined as electricity that is purchased or otherwise brought into the organizational boundary of the company. Scope 2 emissions physically occur at the facility where the electricity is generated.

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Environment

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