



**TECHNICAL CIRCULAR No. 865 of 5<sup>th</sup> March 2025**

To	All Surveyors/Auditors. All flags
Title	<b>2024 Marine Fuel Life Cycle Guidelines</b>
Reference	Guidelines on life cycle GHG intensity of marine fuels (2024 LCA Guidelines),

**2024 Marine Fuel Life Cycle Guidelines**

Building on the outcome of ISWG-GHG 16, the Committee adopted Resolution MEPC.391(81), 2024 Guidelines on life cycle GHG intensity of marine fuels (2024 LCA Guidelines), which incorporates:

1. Amendments to sections 4, 5, 9 and 10, and appendix 3 of the LCA Guidelines in relation to:
  - a. the quantification of parameters for biofuel production
  - b. evaluation of carbon GHG intensity of electricity, and
  - c. the tank-to-wake methodologies for actual/onboard emission factors
2. Amendments to appendix 4 and addition of new appendix 5 of the LCA Guidelines for future submission template of both well-to-tank and tank-to-wake default emission factor data
3. Editorial amendments to appendix 2 of the LCA Guidelines on the well-to-tank default emission factor

The Committee agreed on the establishment of the Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP) Working Group on Life Cycle GHG Intensity of Marine Fuels (GESAMP-LCA WG) to review scientific and technical issues with the following Terms of Reference (ToR): Methodological refinement of the emission quantification in the LCA Guidelines, with a view to ensuring the integrity of all information provided

1. Scientific review of the LCA methodology
2. Scientific review of the WtT GHG default emission factors of fuel production pathways and technologies
3. Scientific review of the TtW GHG default emission factors of fuel usage and onboard technology (explicitly mentioning OCCS boundaries), and
4. Sample calculations on LCA and reflecting the output into the existing Fuel Lifecycle Label (FLL)

Sustainability themes/aspects :

1. Refining and further exploring indicators and metrics under the sustainability themes/aspects in the LCA

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Guidelines, and

2. Approaches to Indirect Land Use Change (ILUC) risk classification 3. Methodological requirements of the LCA Guidelines about certification

Provide external experience, and further information for the development and/or identification of possible requirements for fuel pathway certification, including WtT and TtW actual values.

The Committee also agreed on the establishment of the LCA Correspondence Group, to further consider 'Other social and economic sustainability themes/aspects of marine fuels' as referred to in paragraph 7.1 of the 2024 LCA Guidelines, for possible inclusion in the Guidelines and submit a written report to MEPC 83.

REFERENCES:

- 2024 LCA Guidelines

ATTACHMENTS: No

Kindest Regards,  
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