

This abstract will be presented during LNG2023 conference on 10-13 July in Vancouver, Canada among many other innovative projects, ideas and outlooks. LNG2023 will provide a unique platform for the global LNG industry and key stakeholders to discuss, debate, and showcase the latest industry developments and opportunities.



LEAD AUTHOR

Ilmars Kerbers
General Manager, Merlin Advisors, LLC

CO-AUTHORS

None

SEEKING NET-ZERO – THE COST OF LOW EMISSIONS LIQUEFACTION

Today's liquefaction projects are faced with a growing wave of societal, regulatory and competitive pressures to markedly reduce their carbon footprints as the world strives to limit global warming. But such reductions don't come free. Greenhouse gas (GHG) emissions reduction and mitigation require the application of new technology and market solutions to the various liquefaction plant sources, typically increasing project costs, complexity and performance risks. To date, the incremental costs associated with emissions reduction strategies have, at best, been unevenly reimbursed in buyer's prices or available fiscal incentives, such as carbon-based tax credits.

Our paper considers this mismatch between the incremental costs and incentives around emissions reduction. The analysis will:

- Identify, quantify and prioritise the major liquefaction process emissions sources
- Consider the available technologies and strategies to reduce, eliminate or mitigate GHG emissions from each source, their applicability and their issues, and
- Assess the breakeven incremental price associated with driving towards net-zero liquefaction plants.

In this way we will identify, on an economic basis, the current incentive (or disincentive) for LNG suppliers and developers to reduce their carbon footprints, and hence the market and regulatory responses needed to drive emissions from this most-significant link in the LNG delivery chain.

To view the full conference agenda, visit <https://www.lng2023.org/lng-programme-overview>