

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.



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## FROM DIRTY TO NETZERO LNG... YOU CAN DO IT!

We claim decarbonization of Natural Gas Liquefaction is feasible without major technology breakthrough. It first relies on energy efficiency and digitization, to help reduce the emissions amount and improve control and ensure the right measurement capabilities. It can be completed by massive process electrification. The latter is already initiated in various heavy industry sectors.

We have analyzed in depth more than thirty 'low hanging' decarbonization tracks. These start with the right GHG assessment and performance tool, based on the saying that you can't improve what you don't measure. These tracks are technically available and feasible today. They are compared in terms of feasibility in brownfield & greenfield, implementation costs, timeline & risks, as well as ROI and CO<sub>2</sub>\_OI (Return On Investment and CO<sub>2</sub> impact reduction On Investment).

We also identify several design paradigm shifts, applicable for all greenfield projects and provide some practical examples. These design paradigm shifts are evaluated in terms of feasibility, ease of deployment and suggestions are made on how to integrate them in design and operations philosophy. We identify the pros and cons of these approaches and assess their real long-term financial sustainability.

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