

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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WORLD CLASS ENVIRONMENTAL STANDARDS: GREENHOUSE GAS (GHG) EMISSIONS REDUCTION EXPERIENCE IN GAS & LNG INDUSTRIES

Qatargas Operating Company Limited (Qatargas) currently produces 77 million tonnes per annum (MTPA) of Liquefied Natural Gas (LNG), sales gas and a suite of associated products (Condensate, Naphtha, LPG, Kerojet, Gasoil, Helium, Sulfur). Major expansion plans are in place to increase LNG production to 126 MTPA with a related increase in associated products. The scale and complexity of current operations and future development bring challenges associated with managing our emissions footprint. Qatargas, through comprehensive planning, has developed multiple initiatives to reduce its greenhouse gas (GHG) emissions. Qatargas approach is to continue employing industry best practices and innovative efforts, which include but are not limited to improving facility designs at the outset, enhancing operating procedures to optimize fuel usage, applying heat recovery, reliability improvements, deploying major flare reduction initiatives (e.g., BOG flare reduction, flare gas controllability, startup flare minimization), passing valve monitoring program, mitigation of methane and CO₂ capture and storage (CCS) projects. Implementing these helps Qatargas save approximately 4 MTPA of GHG emissions (for current operations) and an additional approximately 8.5 MTPA of GHG emissions as upcoming measures. This will help Qatargas achieve a 20% drop in GHG intensity (based on the 2013 baseline) by 2030.

The proposed paper will address and describe Qatargas efforts, journey, and challenges related to the above. All those improvements will keep Qatargas on par with world-class environmental standards.

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