



# FREEPORT LNG

## LNG Carbon Intensity Stage Statement

Details of Reporter	
Statement Date	November 8, 2022
Reporting Entity	Freeport LNG

Declaration	
Declaration Category	Stage Statement
Confirmation of Alignment with Framework	GIGNL MRV and GHG Neutral LNG Framework, V 1.0
Verification Status of the Statement	Unverified
Signed Declaration	

Life Cycle Boundary	
Life Cycle Stages Included in the GHG Footprint	Freeport LNG Operations including: Stratton Ridge Meter Station (SRMS), Stratton Ridge Underground Storage Site (UGS), Pretreatment Facility (PTF), Liquefaction Facility (LQF) and Quintana Terminal Operations, and associated pipelines.

Total GHG Emissions Statement		
HHV Energy Content of Gas	22.6	MMBtu/m <sup>3</sup>
Total GHG Emissions	3,090,066	tonnes CO <sub>2e</sub>
CO <sub>2e</sub> Intensity	4.33E-03	tonnes CO <sub>2e</sub> /MMBtu
CH <sub>4</sub> Intensity	4.95E-07	tonnes CH <sub>4</sub> /MMBtu
Greenhouse Gases Included in the CO <sub>2e</sub> Value	CO <sub>2</sub> , CH <sub>4</sub> , and N <sub>2</sub> O	
Greenhouse Gases Included in the Total CO <sub>2e</sub> Emissions	CO <sub>2</sub> , CH <sub>4</sub> , and N <sub>2</sub> O	

Standards Applied for Development of GHG Footprint	
<p>The development of the GHG footprint follows the standards outlined in the GHG Protocol. Primary emissions were calculated using the methods prescribed by the USEPA Mandatory Reporting Rule (40 CFR Part 98). Pipeline fugitive emissions were calculated following the standards outlined by the API Compendium. The EPA eGrid location based emission factors are used for the Scope 2 inventory.</p>	

Stage Based GHG Data		
Exported Energy Content	713,024,553	MMBtu/m3
Stage Energy Shrinkage	0.998	mmBtu gas input/mmBtu LNG output
Stage Specific CO <sub>2e</sub> Emissions	3,090,066	tonnes CO <sub>2e</sub>
Stage Specific CO <sub>2e</sub> Intensity	4.33E-03	tonnes CO <sub>2e</sub> /MMBtu
Stage Specific CH <sub>4</sub> Emissions	353	tonnes CH <sub>4</sub>
Stage Specific CH <sub>4</sub> Intensity	4.95E-07	tonnes CH <sub>4</sub> /MMBtu
Verification Status of Stage Specific Data	Unverified	

Stage Based Calculation Approach		
Estimated Percentage of Emissions Based on Primary Data	100% primary activity data and industry standard emission factors	
Overview of Calculation Methodologies	Measurements and calculations for scope 1 GHG emissions are consistent with USEPA Mandatory Reporting Rule standards in Subpart C and Subpart W with the use of widely accepted industry emission factors. Pipeline fugitive emissions were calculated following the standards outlined by the API Compendium. Scope 2 emissions are calculated using EPA eGrid emission factors. The intensity calculations account for proportional allocation between LNG and NGLs based on operational data.	
Date Range of Emission Calculations	Calendar Year 2021	
GWP Applied	CO <sub>2</sub>	1
	CH <sub>4</sub>	25
	N <sub>2</sub> O	298

Low GHG Emission Features	
All-electric drive plant design for low relative emissions compared to combustion driven design.	
Increasing portion of power sales from renewable energy sources.	