FREEPORT LNG

LNG Carbon Intensity

Stage Statement

Scope 2 data has been set to 0 for Scope 1 individual analysis

Details of Reporter	
Statement Date	June 17, 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/m3
Total GHG Emissions	752,871	tonnes CO_{2e}
CO_{2e} Intensity	1.06E-03	tonnes CO_{2e}/MMBtu
CH_4 Intensity	2.88E-07	tonnes CH_4/MMBtu
Greenhouse Gases Included in the CO_{2e} Value	CO_2, CH_4, and N_2O	
Greenhouse Gases Included in the Total CO_{2e} Emissions	CO_2, CH_4, and N_2O	

Standards Applied for Development of GHG Footprint
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. This calculation does not include Scope 2.

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_{2e} Emissions	752,871	tonnes CO_{2e}
Stage Specific CO_{2e} Intensity	1.06E-03	tonnes CO_{2e}/MMBtu
Stage Specific CH_4 Emissions	205	tonnes CH_4
Stage Specific CH_4 Intensity	2.88E-07	tonnes CH_4/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 not calculated. 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_2	1
	CH_4	25
	N_2O	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.