

8 APRIL 2026

# GIIGNL GHG MRV Framework

Task Force Update



**GIIGNL**

International Group Of Liquefied  
Natural Gas Importers

# Meeting Agenda

- 1 Comparison between GIIGNL GHG MRV Framework Version 1.0 and Version 2.0
- 2 Update from the Focus Group on the SGE GIIGNL Framework
- 3 Update on the Framework perimeter (value chain breakdown) and Excel tool capabilities
- 4 First list of consultants and update on the RFP process
- 5 Guidance from the Framework 2.0 for Verification
- 6 Next steps

# Opening & Objectives

## Finalize an GIIGNL Framework 2.0

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### Why a v2.0 is needed?

- Re-align objectives of the framework
  - v1.0 focus on Neutral LNG cargoes
  - v2.0 focus on transparency for regulatory or commercial purpose
- Evolution of the regulatory and political framework
  - Methane
  - News standards and protocol (ISO 6338)
- Limits identified by the pilot-study (2022-2023)
  - Complexity of the pathways
  - Need support and guidance for
    - GHG Emission calculations
    - Access to reliable data
  - 3<sup>rd</sup> Party verification
- Push from Chevron for Convergence with the SGE methodology

### What has been achieved since Osaka Meeting

- Simplified Statement Pathways definition : 4 Pathways
- Excel tool designed for cargo statement
- Updated references to existing standards and protocol (still on-going)
- New task force activated
  - 3 TF meetings
  - Focus Group on convergence with SGE
- Alinements on the objectives
- Connection with stakeholders
  - Bureau Veritas
  - EEMDL - University of Texas

# Comparison between GIIGNL GHG MRV Framework

Version 1.0 and Version 2.0 1/5

	Framework 1.0 – MRV & GHG Neutral LNG (2021)	Framework 2.0 – GHG MRV Framework (Draft)
Primary objective	Enable consistent GHG footprinting and GHG-neutral LNG cargo claims, including offsetting	Provide a guidance-based MRV framework for stage-level and cargo-level GHG reporting aligned with regulation
Underlying philosophy	Voluntary, market-driven response to early carbon-neutral LNG demand	Regulation-ready, credibility-driven approach focused on transparency and robustness
Declaration / reporting pathways	Five explicit Declaration Pathways: Stage Statement; GHG Footprint; GHG Offset Cargo; GHG Offset Cargo with Reduction Plan; GHG Neutral LNG Cargo	Simplified architecture centred on Stage Statements and Cargo Statements; no formal hierarchy of neutrality pathways
Role of offsets	Central – GHG Neutral LNG pathway structured around offsets	De-emphasised – priority on measured emissions and reductions; offsets optional and secondary



# Comparison between GIIGNL GHG MRV Framework

Version 1.0 and Version 2.0 2/5

	Framework 1.0 – MRV & GHG Neutral LNG (2021)	Framework 2.0 – GHG MRV Framework (Draft)
Core Outputs	5 pathways for cargo statement: Stage Statement; GHG Footprint; GHG Offset; GHG Offset with Reduction plan; GHG Neutral	4 pathways: Stage Statement; GHG Footprint; GHG Footprint with Reduction plan; GHG Footprint with Reduction plan and Carbon Offset
Value Chain Stages	Drilling, Production; Gathering, boosting & Processing; Gas Transport; <b>Liquefaction, Storage &amp; Loading; Shipping; Unloading; Reloading &amp; Regasification</b> ; Gas Transmission; Gas Storage; Gas Distribution; End-Use	To be defined by task force, SGE convergence
System boundaries	cradle-to-grave (wellhead to end-use) recommended with flexibility	Crade to gate (including regas) with flexibility to include downstream and end-use
Emission Sources	All sources of emission to be included: Stationary combustion and flaring; Mobile combustion; Venting; Fugitive losses; Emissions associated with imported	Same / To be defined

# Comparison between GIIGNL GHG MRV Framework

Version 1.0 and Version 2.0 3/5

	Framework 1.0 – MRV & GHG Neutral LNG (2021)	Framework 2.0 – GHG MRV Framework (Draft)
Methane treatment	Explicit inclusion of methane; OGMP 2.0 encouraged	Methane focus aligned with OGMP 2.0 and EUMER
Reference standards	ISO 14067, GHG Protocol Product, PAS 2060, ISO 14064-3	ISO 6338, ISO 14064-3/14065, OGMP 2.0, convergence with SGE methodology
Verification & assurance	Third-party verification required with flexibility on depth	Aligned with ISO verification standards / To Be discussed
Data quality & transparency	General principles defined; qualitative disclosure	Explicit data quality, traceability, and documentation requirements / To be discussed



# Comparison between GIIGNL GHG MRV Framework

Version 1.0 and Version 2.0 4/5

	Framework 1.0 – MRV & GHG Neutral LNG (2021)	Framework 2.0 – GHG MRV Framework (Draft)
Secondary data use	Allowed but loosely governed	Explicit governance on use, justification, and disclosure of secondary data
Time validity & consistency	Implicit annual logic	Explicit validity periods, consistency, and update rules
Commercial & contractual relevance	Limited discussion	Explicit consideration of commercial and contractual sensitivities
Excel / calculation tools	Not Available	Excel Tool v2.0 aligned with revised methodology



# Comparison between GIIGNL GHG MRV Framework

Version 1.0 and Version 2.0 5/5

	Framework 1.0 – MRV & GHG Neutral LNG (2021)	Framework 2.0 – GHG MRV Framework (Draft)
Intended users	Buyers and sellers exploring GHG-neutral LNG	Buyers, sellers, Industry players seeking decision-grade GHG data
Overall positioning	Early harmonisation framework for voluntary claims	MRV reference framework for regulatory and market credibility

# Convergence with SGE Methodology

## Items compared #1

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### Reference Standards

- ISO 14067:2018 (Product Carbon Footprint)
- ISO 6338 series (LNG-specific guidance)
- GHG Protocol (Corporate level)
- ISO 14064-1:2018 (entity-level accounting)
- API / regional methodologies (supporting)

### Core Principles

- Relevance
- Completeness
- Consistency
- Accuracy (toward reasonable assurance)
- Transparency
- Coherence

### Scope & Functional Unit

- Scope
  - Well-to-discharge flange (CFR basis)
  - Based on contractual responsibility (Incoterms)
- Unit
  - kgCO<sub>2</sub>e / mmbtu (HHV)
- GHGs Covered
  - CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O
  - 100-year GWP (latest IPCC)

# Convergence with SGE Methodology

## Items compared #2

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### Methane Treatment

#### Production

- OGMP Levels:
  - Level 4+ = Primary data
  - Level 1–3 = Secondary data

#### Shipping

- Hierarchy:
  1. Regulatory (EU ETS / IMO defaults or measured)
  2. Corporate (engine-specific preferred)
  3. LCA modeling (default factors + IPCC)

### Emissions Boundaries

#### Include

- Direct + indirect emissions Combustion, flaring, venting, fugitives
- Liquefaction energy (electricity/heat)
- Shipping (full round trip)

#### Additions in V2

- Gas compression clarification
- Shipping maintenance & overhead
- Inert gas generators
- N<sub>2</sub>O slip inclusion

# Convergence with SGE Methodology

## Items compared #3

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### Lifecycle Boundary

- Included in SGE
  - Wellhead → Processing → Transport → Liquefaction → Shipping
- Excluded
  - Regasification & end use (out of scope in SGE)
- Terminology Shift
  - “Cradle-to-discharge flange” (instead of LCA terminology)

### Life cycle stages

- Drilling / Production / Processing
- Gas Transport
- Liquefaction, Storage & Loading
- Shipping (laden + ballast)
- Out of scope of the focus group:
  - Regasification
  - Distribution & end use

### Shipping Boundary & Ownership

- Full round trip required (laden + ballast)
- Emissions ownership tied to cargo transfer:
  - Seller → until discharge (CFR)
  - Buyer → after transfer
- Special cases
  - Transshipment: transfer ends responsibility
  - Ballast: may use secondary data

# Convergence with SGE Methodology

## Items compared #4

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### Materiality

- Non-material threshold:
  - $\leq 5\%$  per stage OR  $\leq 2\%$  total intensity
- Allowed:
  - Simplified estimation for small sources

### Exclusions

- Construction emissions (amortized)
- Exploration, overhead, capital projects
- Start-up / commissioning

### Assurance & Verification

- Standards
  - ISO 14067 / ISO 6338
  - ISO 14064 / ISAE 3410
- Assurance Levels
  - Limited (minimum)
  - Reasonable (preferred)
- Outputs
  - Cargo statements
  - Stage statements

# Convergence with SGE Methodology

## Items compared #5

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### Data & Quantification

- Data Hierarchy
  - Primary (preferred)
  - Secondary (allowed, categorized by quality)
- Additions
  - OGMP-based methane data classification
  - Uncertainty assessment required
- Temporal
  - Production: 12-month rolling average
  - Shipping: cargo-specific

### Allocation Rules

- Granular (sub-process level where possible)
- Follow SGE hierarchy
- No allocation for LNG shipping/storage
- Waste with no value → no emissions

### Carbon Accounting & Metrics

- Metrics
  - GHG intensity: kgCO<sub>2</sub>e/mmbtu
  - Methane intensity aligned to CO<sub>2</sub>e
- Reporting
  - CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O disclosed separately
  - Carry-forward approach for upstream emissions



# GIIGNL

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## THANK YOU

CONTACT US FOR MORE INFORMATION  
185 AVENUE CHARLES DE GAULLE - 92200 NEUILLY-SUR-SEINE – FRANCE  
[CENTRAL-OFFICE@GIIGNL.ORG](mailto:CENTRAL-OFFICE@GIIGNL.ORG)