

Attributes™

Trace and monetize your ESG data

LNG qualities tracking solutions

July 2025

The information contained in this document is confidential, privileged, and intended solely for the use of the intended recipient. It may not be used, published, or redistributed without the prior written consent of ATTRIBUTES SAS.

A trusted partner to **transition to differentiated natural gas** markets.

A **blockchain-based registry solution** that allows a secure tracking of ESG energy-related data from producers to end-users.

Expert guidance and **open framework web platform** for new gas supply solutions.

Attributes™

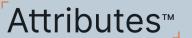
Backed by 2 strategic/commercial partners and 2 financial investors





Specialized in ESG traceability solutions

A flexible approach with a wide range of solutions





Natural Gas



LNG



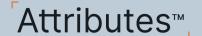
Green power



Hydrogen

~70 TWh

Track record of ~70 TWh of differentiated energy volumes across EU and US markets managed on our live solutions.



An Open Framework web platform suitable for different LNG trading business cases





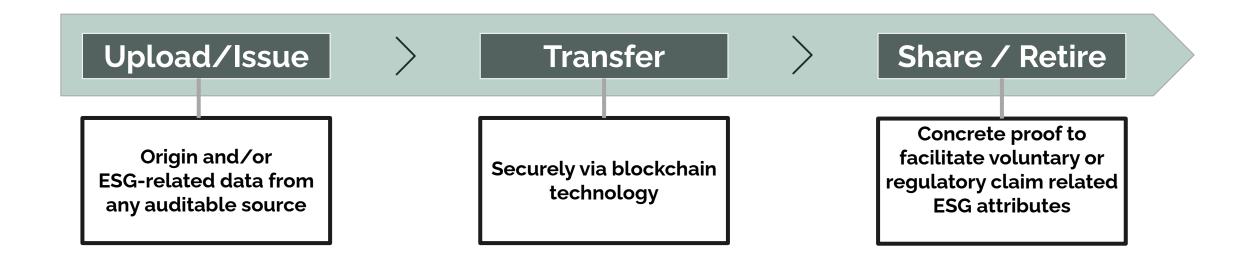


Track and Verify alignment with your internal sustainability commitments

Support regulatory compliance and reduce risk in your long-term LNG contracts

Differentiate your energy offering with verifiable low-carbon value and unlock premium pricing opportunities

Registry Key Principles for LNG ESG data tracking







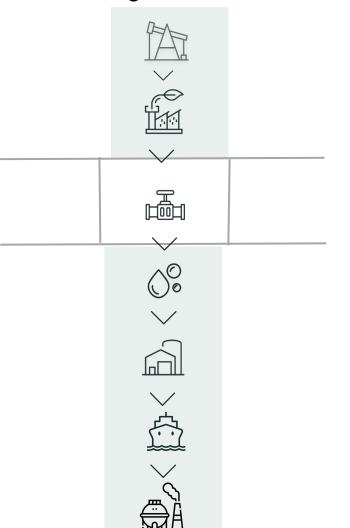
Selected framework (eg. GIIGNL)

Operator proprietary data

Manual or automated upload of data and evidence documents

Typical proprietary data sources:

- OGMP 2.0 Emissions Reports
- ESG certificates (Trustwell...)
- Audit & verification reports
- Bill of lading
- Discharge report



Default data

Default values acquisition system from available data sources*:

Typical public / commercial data sources

- Government agencies (eg EPA, Thetis MRV..)
- Research publications
- Databases (eg Ecolnvent)
- → Public sources

*List of accepted sources to be validated with GIIGNL upon discussion

ATTRIBUTES™ LNG value chain dashboard

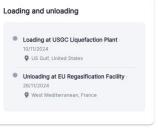
All info available in one space

Product details X

LNG Cargo GHG Dashboard for [Demo] G2-LNG US1

Monitor lifecycle greenhouse gas emissions from LNG cargo journeys.























Emission Summary

Unloaded quantity (MMBtu)

3,646,590

GHG Intensity (kgCO₂e/MMBtu)

13.5

Methane Intensity (%)

0.34

Compliance

GIIGNL Framework

Verified by MyAuditor

Total (tCO2eq)

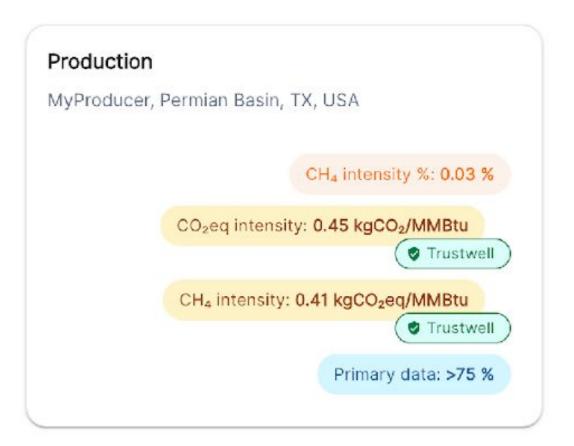
23,739

Ø Offset (tCO₂eq)

23,000

Aggregated emissions view

Detailed emissions view: from various data sources and validation schemes



ATTRIBUTES™ generic Workflow



ISSUANCE

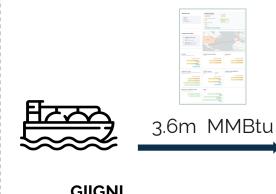
of certificates for each cargo delivered and equal to the volumes regasified. Each cargo is fungible

TRANSFER

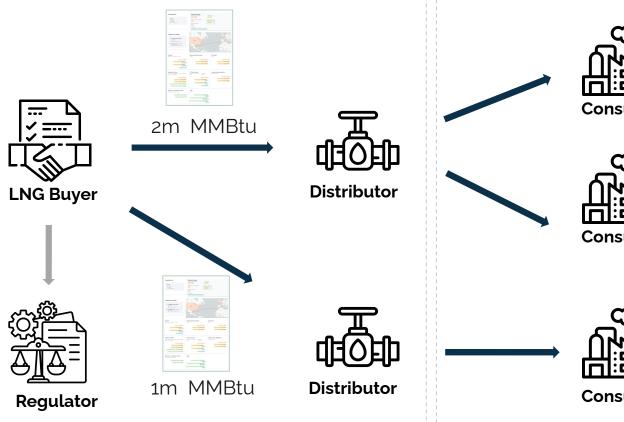
certificates along the chain based on commercial agreements

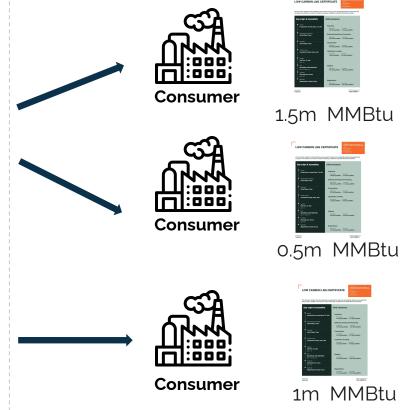
RETIRE

certificates to claim associated data.



GIIGNL Reporter





LOW CARBON LNG CERTIFICATE

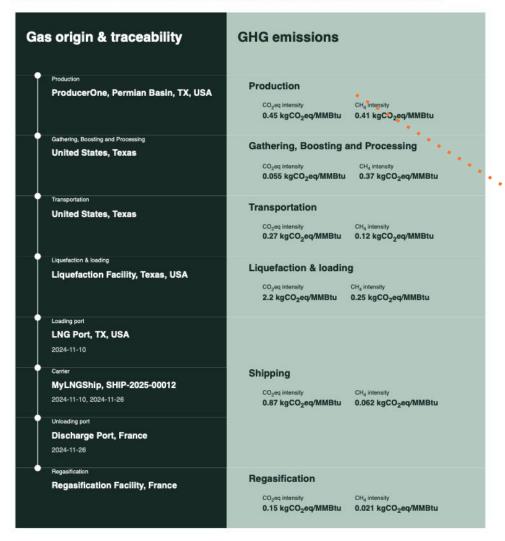
TRANSACTION ID:

0xd894fd91c6b623723db520e39011c2fb9c8baa8cc19c8fcaa1b428ce18eb8d6bcAR00 ID:

CC-ADA-2024-11

RETIREMENT DATE:
23.07.2025 14:51

This document certifies that the beneficiary has acquired the origin and sustainability attributes associated with this gas and is entitled to use them for carbon accounting, compliance and public disclosure purposes.



A tailor-made retirement certificate

TRANSACTION ID:

0xd894fd91c6b623723db520e39011c2f
b9c8baa8cc19c8fcaa1b428ce18eb8d6b
cargo ID:
CC-ADA-2024-11
RETIREMENT DATE:
23-07-2025 14:51

Production

ProducerOne, Permian Basin, TX, USA

Production

CO₂eq intensity

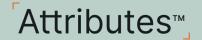
0.45 kgCO₂eq/MMBtu

CH₄ intensity

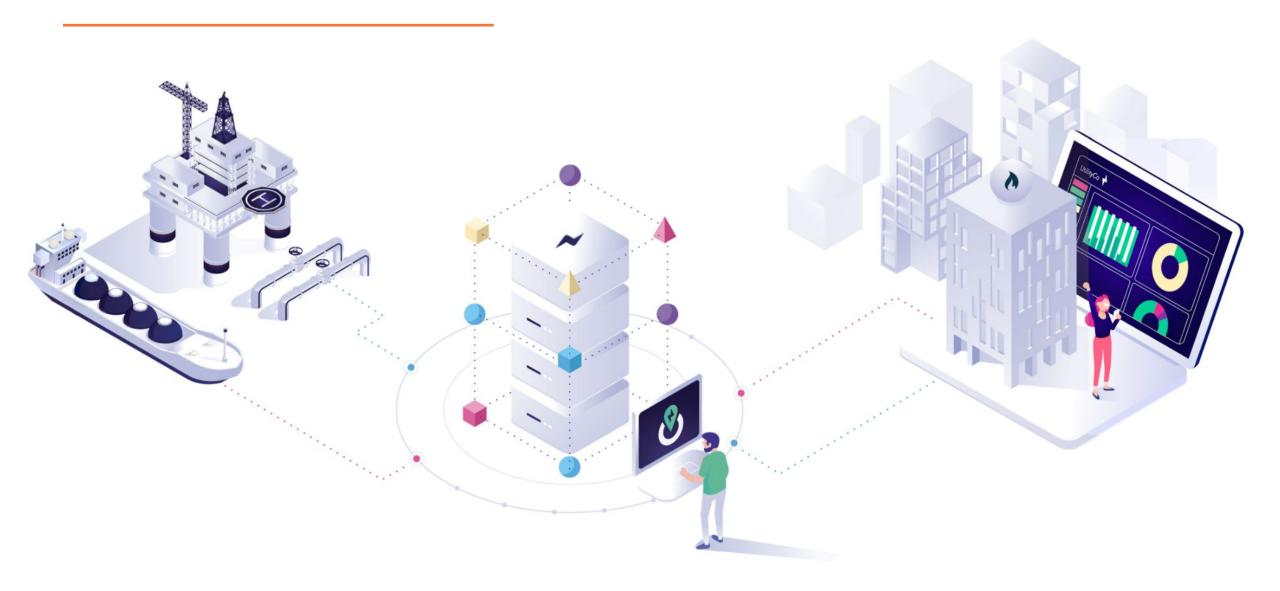
0.41 kgCO₂eq/MMBtu

- User-friendly aggregated value chain view for final consumer

- No double counting



Demo



A one stop shop solution

Flexible

- No imposed standards, methodologies, or specific verifiers
- Custom products aggregating ESG data from various sources

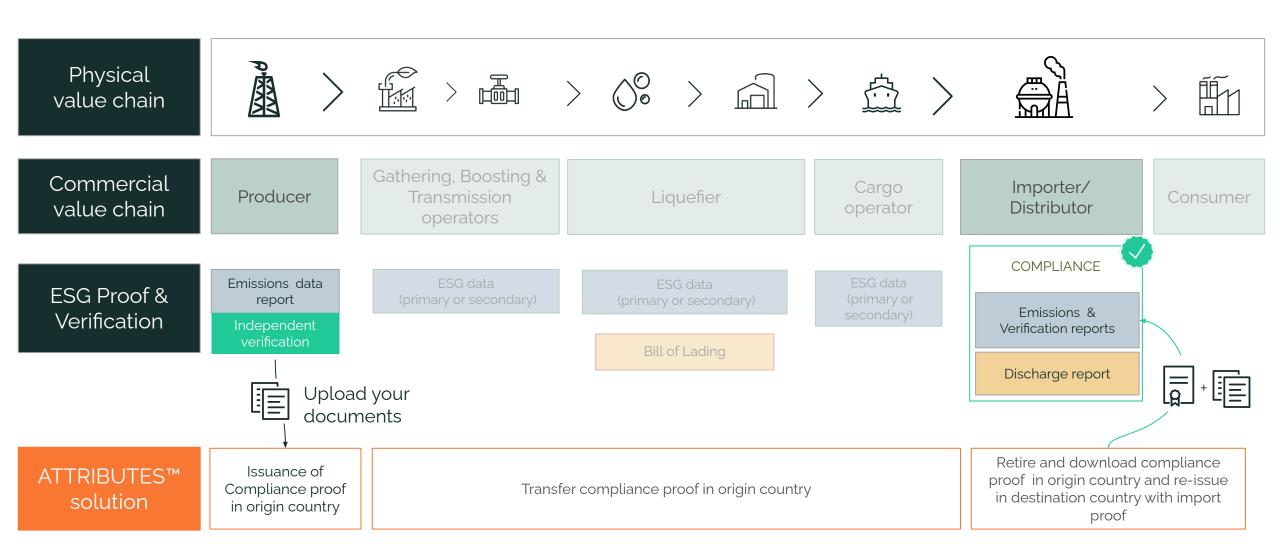
Trust and Security

- Blockchain technology ensures data integrity throughout the chain
- Strong guidelines boost customer trust in environmental claim

Easy, Quick deployment

- Easy to deploy and fully interoperable
- New products structured and launched in days

Supporting EU Methane Regulation compliance



Meet us at ATTRIBUTESTM GASTECH Milan events!

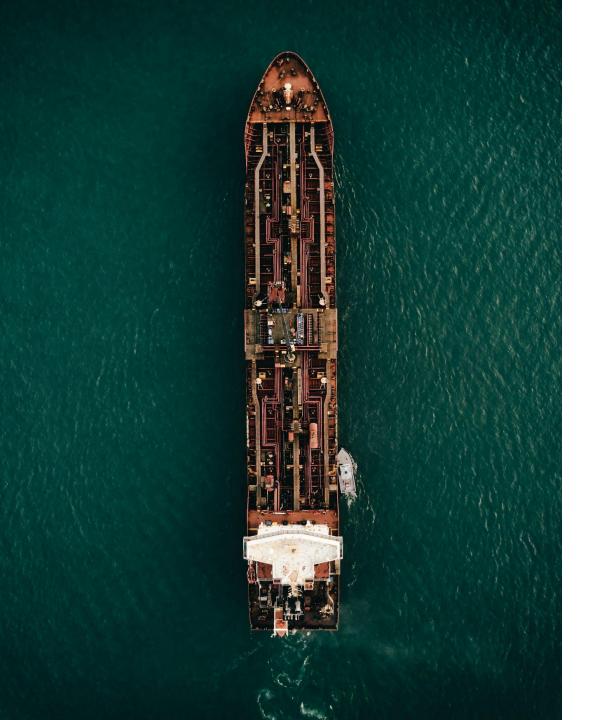
Tue Sep 9th
SpaceJam Fuori Salone Art Cocktail



Wed Sep 10th $BCG \times ATTRIBUTES^{TM} Methane$ (Milanese!) Breakfast



Please write to contact@attributes.digital to request your invitation



To learn more about us: contact@attributes.digital

ATTRIBUTESTM

Paris | Bruxelles | (Singapore)

ATTRIBUTESTM Solution - Key risks and how we address them

ATTRIBUTESTM Enabled mitigations

Green Washing **Geographical:** Use USA production EUMR certificate without physical shipping to EU

Temporal : Use certificates from 2017 to cover consumption in 2023

Bundle verified production emission report and import documentation (bill of lading)

Certificates expire after 12 months

Double selling

Malicious actor on the chain sells more certificates than they own

Blockchain technology ensures that volumes cannot be double-counted.

False claims

Producer or malicious actor states methane report is compliant with EUMR Art.12 or OGMP 2.0 L5 when it is not the case

ATTRIBUTESTM checks appropriate documentation is indeed validated by 3rd party independent verifier.

Blockchain technology ensures that documentation and data remain tamper-proof throughout.



ATTRIBUTESTM Engagement Model Example: From Proof to Platform - A Scalable Commercial Journey

3-6 months

Map

Co-develop

Jointly define relevant use cases

Identify and Scope

- Align on data sources, user needs, and key stakeholders
- Deliver clear scope. success criteria, and roadmap

- **Assess existing** data. infrastructure and traceability gaps
- Map flows and potential data integration points
- Produce a visual registry blueprint

- **Build and test** registry features in a sandbox environment
- Validate with selected LNG batches and mockup transactions
- **Generate learnings** for scale-up readiness

Ongoing subscription

Platform Access

- Full-featured platform access based on tested LNG registry model
- Commercial terms (e.g., subscription, volume-based, enterprise license) to be co-defined
- Flexibility to adapt pricing based on usage, scope, and strategic value

Project-based pricing

(based on scope, e.g. man-hour for mapping, co-development and testing)

Platform-based pricing

