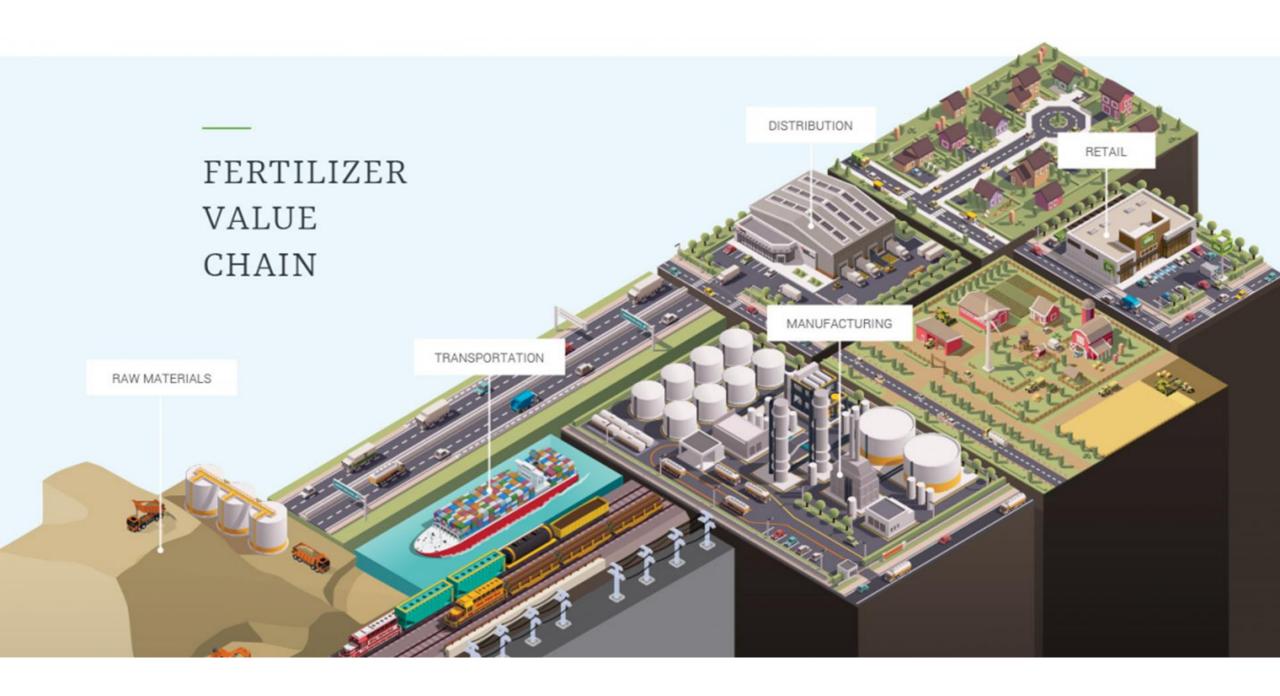


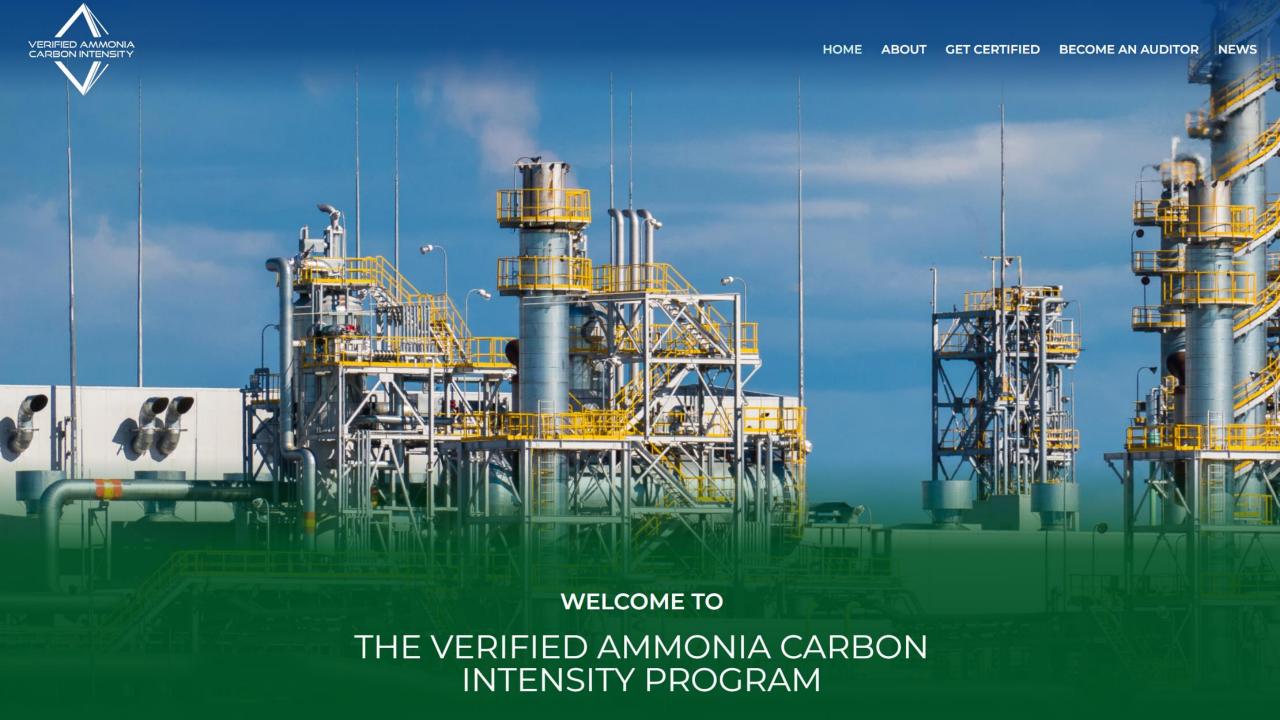
**Ammonia Carbon Intensity Certification** 





# Low Carbon Claims: Lacking Clarity

- Are upstream methane emissions going to be included in carbonintensity calculations?
- Is enhanced oil recovery (EOR) a permissible form of carbon sequestration
- Are upstream methane emissions going to be included in carbonintensity calculations?
- Is enhanced oil recovery(EOR) a permissible form of carbon sequestration?
- Is there such a thing as low-carbon urea?
- Can voluntary offsets be used to produce low-carbon molecules?



## Verified Ammonia Carbon Intensity

- Voluntary
- Well-to-production gate: Does not include downstream emissions
- Credibility:
  - Verification and validation of the claims via third-party auditor
  - In alignment with ISO 17065, 14065, 14064, and 14067
  - Emissions Reductions: Permanent sequestration or carbon capture for the use of Enhanced Oil Recovery
- Transparency:
  - Standardizes the way all producers are calculating CI
  - Does not use colors associated with different production methods
- Commercial flexibility to meet the requirements of individual customers

#### How will it be used?

 Allows producers to issue statements of verified carbon intensity for batches of ammonia produced, that includes the carbon intensity (CI) score and amount (metric tonnes).

## Methodology

Part 1

- Introduction
- Scope
- Definition of Terms

Part 2

- General Calculation, Quantifying Lifecycle Emissions, Materiality Threshold/Cut-Off Criteria
- Core Energy Source Concept
- Steam & Storage Emissions

Part 3

- Certification & Carbon Intensity of Inputs
- Carbon Capture Utilisation & Storage (CCUS) & Emissions Reduction
- ▶ Requirements for Geological Carbon Storage

Part 4

- Data Quality Requirements
- Verification
- Annex Material

#### **Certification Process**

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Ammonia producer
(applicant) uses the Verified
Ammonia Carbon Intensity
methodology to calculate the
carbon intensity of ammonia
production at a certain facility
for a duration of one year

2

Ammonia producer applies for certification of the facility using the online application 3

Ammonia producer selects an auditor from the approved auditor list and engages them to perform an audit of the facility and carbon intensity calculation

4

Auditor provides an audit report to Verified Ammonia Carbon Intensity 5

Verified Ammonia Carbon Intensity certifies the facility calculated the carbon intensity according to the methodology, based on the audit report findings



# Looking Forward

 In the future, the program will be extended to allow producers to issue verification statements for ammonia derivatives.