



**BUREAU
VERITAS**

**SUPPORTING GLOBAL
LOW CARBON
HYDROGEN & AMMONIA
INDUSTRY**

BUREAU VERITAS POSITIONNING ON HYDROGEN: BRINGING TRUST AND TRANSPARENCY

With our long-standing experience in the energy industry, especially in **risk & safety management** and **quality assurance**, our overarching role is to **bring trust** to the hydrogen energy industry.

As an independent third party:

- | Certification of assets
- | Certification of equipment
- | Supply chain quality assurance
- | Independent testing and measurement

As a technical expertise provider:

- | Owner's engineer
- | Technical advisory
- | Permitting support
- | Risk & safety management



**BUREAU VERITAS HYDROGEN & AMMONIA
CERTIFICATION SCHEME & LABEL**

A UNIQUE SCHEME RELYING ON 3 PILLARS

1



SAFETY

- | Compliance with safety standards
- | Application of best practices
- | Process safety from design and construction until operations

2



SUSTAINABILITY

- | Water footprint
- | Assessment of sustainability through ESG criteria
- | Environmental impact

3

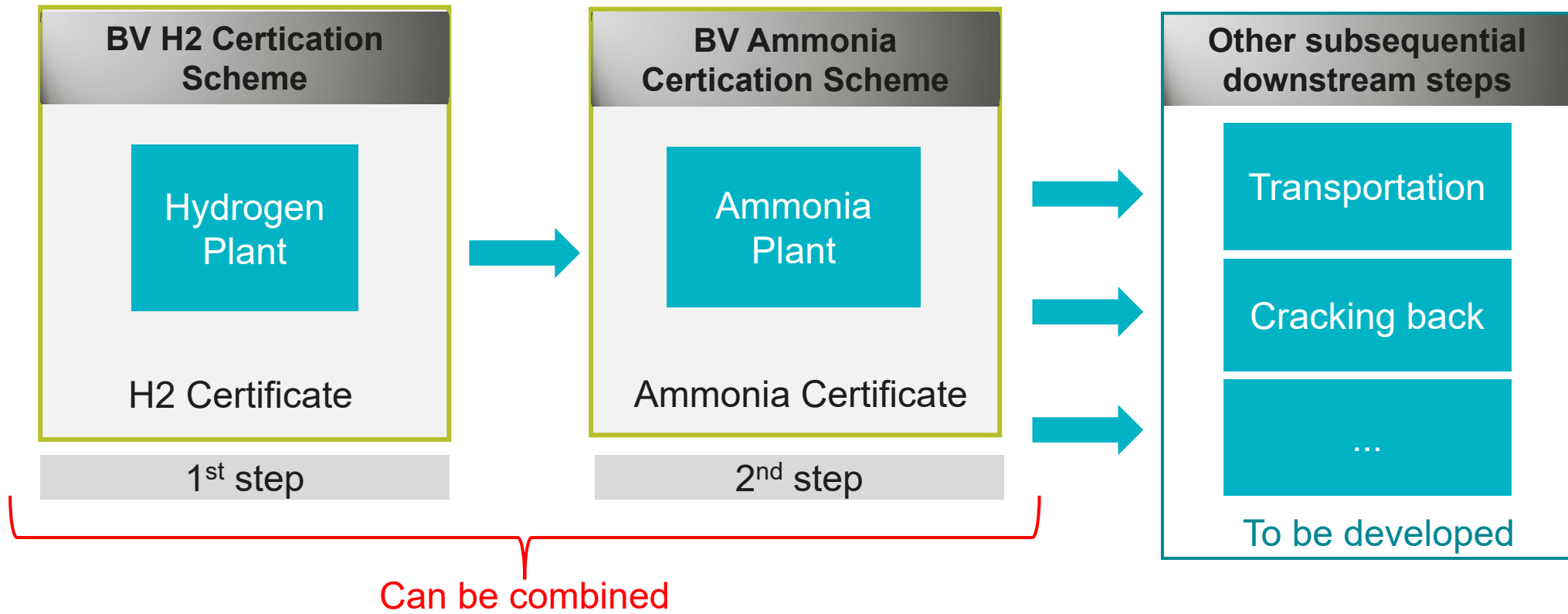


RENEWABLE INPUT

- | 100% renewable electricity
- | Overall carbon footprint below
2kg CO₂eq / kg H₂*
0,5kg CO₂eq / kg NH₃*

*capital goods excluded

SEQUENCE OF HYDROGEN & AMMONIA SCHEMES



A CERTIFICATION PROCESS IN 3 STEPS

BV RENEWABLE H₂/NH₃ CERTIFICATION SCHEME

1

At Design Stage

CERTIFICATE

Certificate of Conformity
- no surveillance activities -

LCA
Safety
ESG

Purely remote assessment based on documents

2

At Operational Stage

CERTIFICATE

3 years validity period
- with annual surveillance audits -

LCA
Safety
ESG

Combined remote & on-site assessment

3

At Operational Stage

LABEL

1 year validity
- with quarterly remote audits -

Remote audit of Renewables input vs. H₂ output

Remark:

Valid BV certificate of operational plant as prerequisite

Asset life cycle – Renewable H₂/NH₃ Certificate plant based

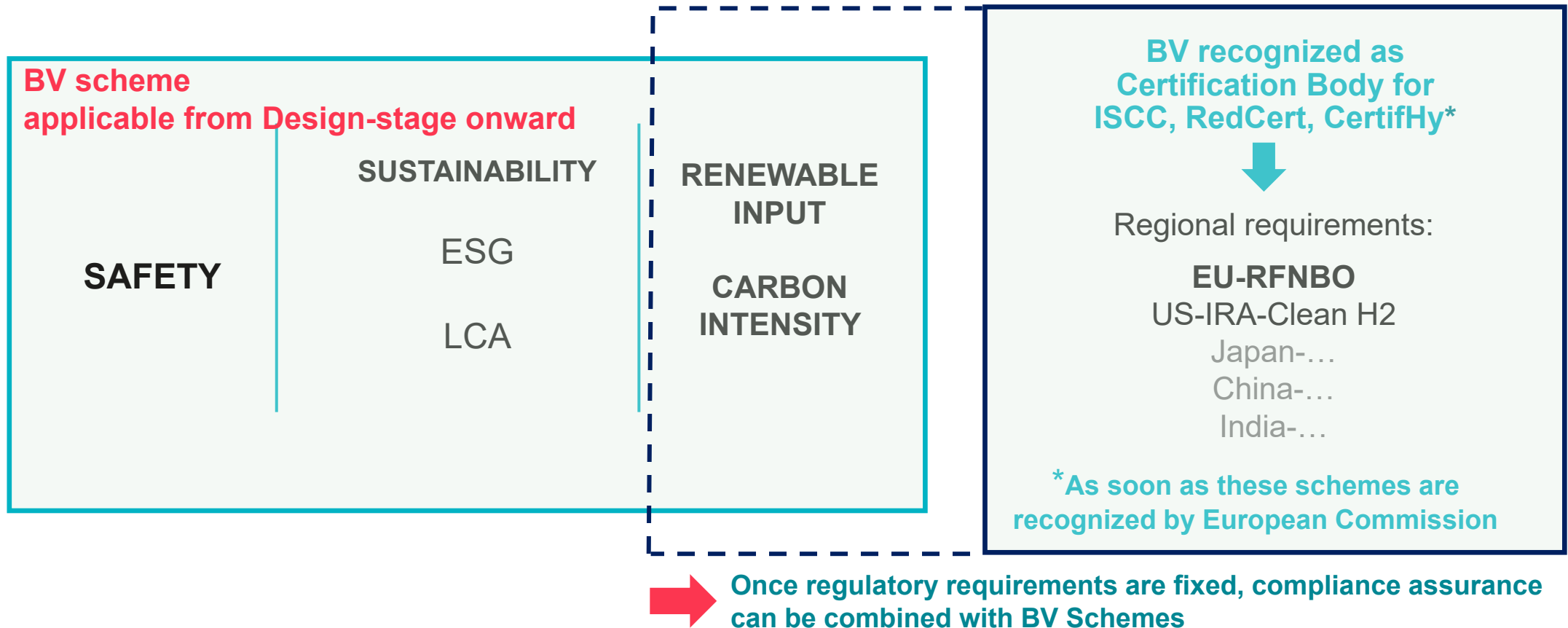
Renewable H₂/NH₃ Label quantity based

Conversion of Renewable Hydrogen to Ammonia is covered with a dedicated Certification & Label scheme using the same process.



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HOW TO DELIVER REGULATORY COMPLIANCE





**BUREAU
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Shaping a World of Trust

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