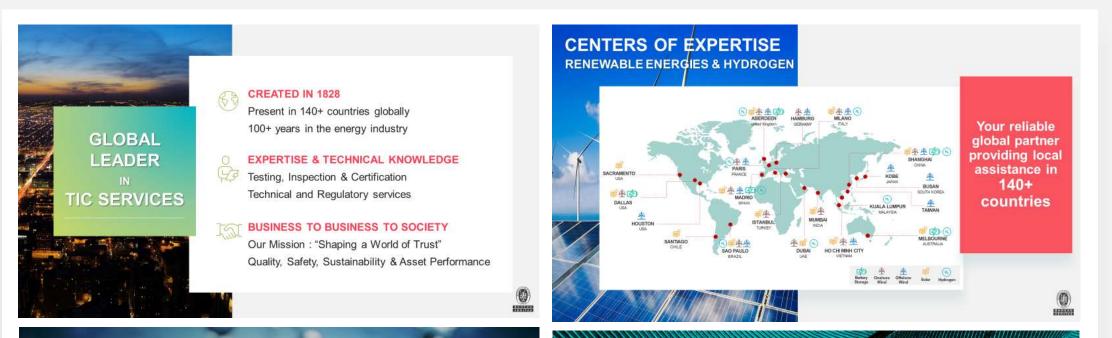


ERITAS

# CERTIFICATION REQUIREMENT FOR GREEN HYDROGEN VALUE CHAIN FROM A LIFECYCLE PERSPECTIVE

ICGH 2024 PANEL DISCUSSION

## **BUREAU VERITAS** – BRINGING TRUST TO HYDROGEN INDUSTRY



### **CONTRIBUTING TO HYDROGEN ECOSYSTEM**

#### Hydrogen Council

- Bureau Veritas is a member of the Hydrogen Council since 2020.
- Co-chair of the Certification task team under Sustainability Program



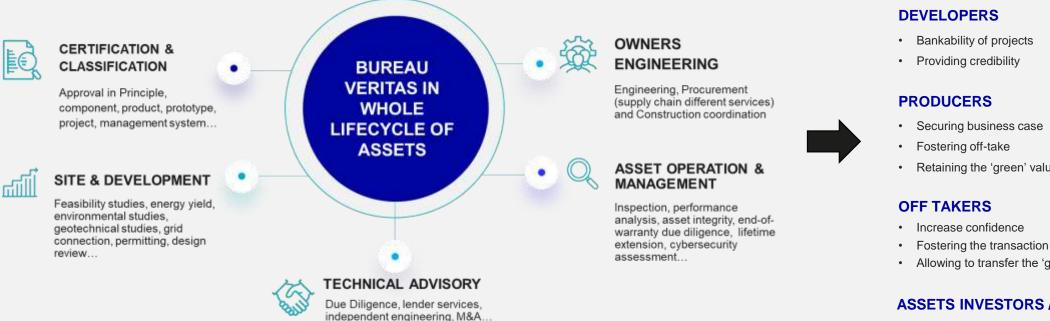
- Part of ISO TC197 WG 34 related to safety requirements for H2.
  - Contribution to New revision of ISO 22734 kick off July 2021





## HYDROGEN & ITS DERIVATIVES: HOW CAN BUREAU VERITAS ASSIST? Services Portfolio to Support Whole Asset Life Cycle





- Retaining the 'green' value proposition
- Allowing to transfer the 'green' value proposition

#### **ASSETS INVESTORS / FINANCERS**

Selecting bankable & ESG compliant projects to invest in











# ELECTROLYSER PRODUCT CERTIFICATION



### CONTROL OF QUALITY PROCESSES DURING MANUFACTURING

**VERIFICATION AND** 

Stack components and assembly.

- Manufacturing and assembly of components (gas/liquid separators, exchangers, dryers, de-oxo, condensers).
- Quality control of suppliers (rectifiers, cabins, electrical equipment, piping, fittings, etc.)
- Verification of factory tests, FAT. expediting



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NEW SCHEMES OF CERTIFICATION QUALITY LABLES ON MANUFACTURING



Shaping a World of Trust

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## **BUREAU VERITAS POSITIONING 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.

### FOR HYDROGEN AND DERIVATIVES ALONG THE VALUE CHAIN

### As an independent third party:

- Certification of production assets / site
- Label for produced molecule
- Certification of Electrolysers
- Independent testing & measurement

### As a technical expertise provider:

- Owner's engineer
- Technical & Regulatory services
- Permitting support
- Risk & safety management



