

# Focus Group

## LOW-CARBON HYDROGEN: KEY ELEMENTS FOR A COMMON-SENSE APPROACH

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## KEY ELEMENTS

**This initial focus group will focus on:**

1. How to define Low carbon hydrogen / assessment method
2. Technologies that will embrace / fit the Low carbon hydrogen definition
3. Monitoring Verification Reporting (MVR) of emissions data

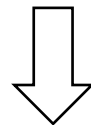
**The focus group will be followed by a broader Stakeholder Consultation (15<sup>th</sup> October) where the following topics will be discussed:**

1. Financing / Business model development
2. Infrastructure / Import of Low carbon hydrogen

**Hydrogen and  
decarbonized gas  
market Package  
Delegated Act**

# 1. HOW TO DEFINE LOW CARBON HYDROGEN (LCH) / ASSESSMENT METHOD

- **Full Lifecycle Assessment (LCA)** (from production to end use) to measure the footprint of low carbon hydrogen and ensuring that it delivers genuine emissions reduction of at least 70% compared to the fossil fuel comparator.
- **Consistency of the low carbon hydrogen Delegated Act with the Renewable Energy Directive (RED) II RFNBOs Delegated Acts in terms of methodologies and GHG reference value.**
  - GHG reference of 94 gCO<sub>2</sub>/MJ for calculating the 70% threshold in both transport and industry.
  - Same rules for allocation of GHG emissions to hydrogen and other co-products.



Identification of what is LCH - solid definition and references for creating the LCH ecosystem

## 2. TECHNOLOGIES / GUIDELINES

**How to make sure that the low carbon hydrogen technologies are compliant (fitting) with the low carbon hydrogen definition ?**

- **CCS**
  - The certification methodology should:
    - include an obligation to measure the **CCS rate** based on actual CO<sub>2</sub> captured and sequestered
    - ensure long-lasting, stable and secure **storage of CO<sub>2</sub>**
- **CCUS**
  - To which extent CCUS can be ‘accepted’
- **Other carbon removal solutions**
- **Nuclear**
- **Other possible technologies**

Carbon offsetting?

### **3. MONITORING REPORTING AND VERIFICATION (MRV)**

**Transparent and accurate Monitoring, Reporting and Verification of emissions data to ensure compliance and reliability.**

- Mechanism included in the EU ETS
- Identification of who will be in charge of MRV (e.g. third party)
- Possibility of creating a link with the RED Union Database



**THANK YOU!**