



The new Hydrogen Era

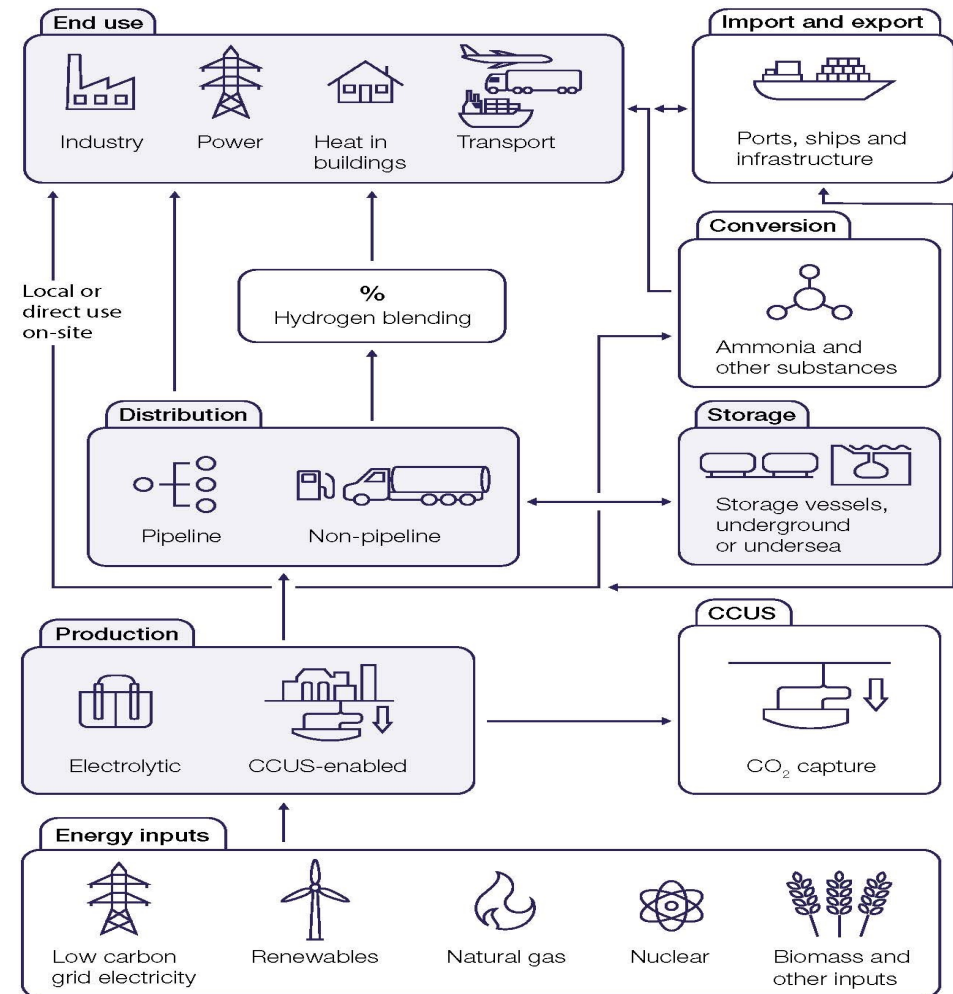


The new hydrogen era: Transition to a green economy

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The Hydrogen value chain

- Integrate the goal of transition to a zero-emission economy in the country's internal processes
- Coordinate the hydrogen value chain



Hydrogen Regulatory Framework / Missing Pieces

Hydrogen penetration challenges differ significantly from the methodological approach for the regulatory framework for gas and electricity networks.

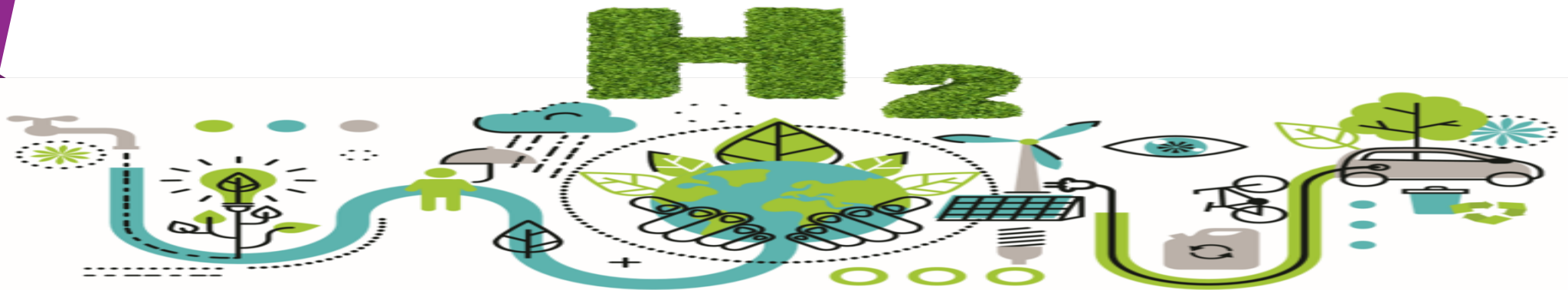
Two theories:

"Hydrogen is a gas, so we should simply copy-paste the current gas legislation"

"Does it really make sense to install traffic lights and police before we even have more than few cars on the road?"

Vibrant public debate in the EU energy sector: how to regulate the future hydrogen networks.

Following the ambitious EU energy policies the discussion is becoming urgent.





EC initiatives

Open Public Consultation on the Hydrogen and Gas Market Decarbonization Package

Consultation aimed to collect views and suggestions from stakeholders and citizens related to a possible proposal for a revision of the Gas Directive (2009/73/EC) and Gas Regulation (715/2009/EC). Planned to be review in Q4 2021.



CEER/ACER Response: Key messages

1. Recommend a gradual, dynamic and flexible regulatory approach for the developments related to hydrogen networks
2. Guarantee consumer rights regardless of the energy carrier
3. Enhance NRAs/ACER oversight of integrated infrastructure planning. Regulators should monitor how the market evolves and intervene when needed.
4. Apply a no-regrets policy for investment decisions
5. Respect the cost-reflectivity and effectiveness principles and avoid cross-subsidization.
6. Ensure a technology neutral level playing field between different conversion and storage facilities



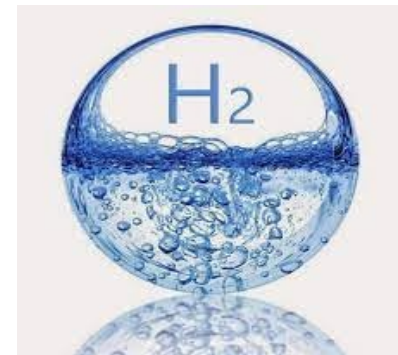


RAE Next Steps: Implement a comprehensive framework

- Design the regulatory framework in a holistic and economic efficient way
- Ensure non-stranded assets regarding natural gas infrastructure. Development of regulatory rules for retrofitting & repurposing of transmission and distribution systems. Renewable gas blending rules.
- Plan the development of hydrogen infrastructure in accordance with the European practice. Non-regret approach, unbundling rules, third-party access
- Elaboration of joint development plans for electricity, gas and hydrogen sectors. Gradual market coupling.

Regulatory team of the Committee of the Greek Hydrogen Strategy (WIP)

- The current legislative and regulatory framework must be reviewed
- Clear definitions of hydrogen and renewable gases
- Clear definition of production, conversion and storage units. Clarification of the role of storage units in particular in balancing the system
- The new framework should support the implementation of the new hydrogen investments (easy licensing procedures)
- Revision of safety rules and technical specifications in all areas of the supply chain, for the safe introduction of new gases into the system
- Implement a Guarantees of origin scheme





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