

Dimensions towards decarbonisation





Foster local and decentralised energy and economies

- Clean Energy Package
- Renewables

- Self-consumption
- Energy communities
- Peer-to-peer

Continue work on integration of markets

- 1, 2, 3 Packages
- Liberalisation
- Unbundling
- Internal energy market
- New EU entities & NCs



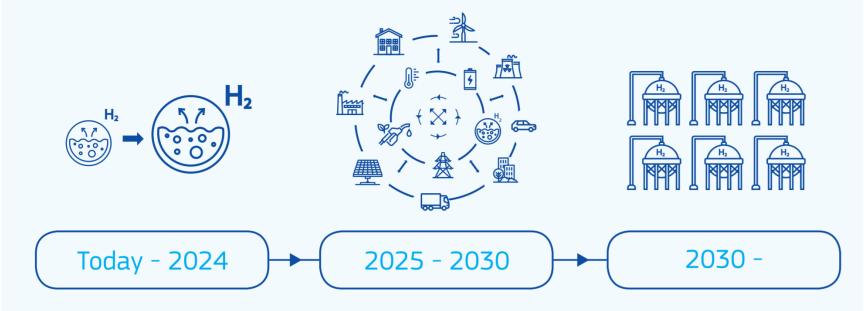
Enhance sector integration and energy circular economy

- New actors & technologies
- Whole system approach
- Carbon-neutral society
- Energy efficiency
- Hydrogen

Opportunities for renewables



The path towards a European hydrogen eco-system step by step:



From now to 2024, we will support the installation of at least 6GW of renewable hydrogen electrolysers in the EU, and the production of up to 1 million tonnes of renewable hydrogen.

From 2025 to 2030,
hydrogen needs to become
an intrinsic part of our
integrated energy
system, with at least 40GW
of renewable hydrogen
electrolysers and the
production of up to
10 million tonnes of
renewable
hydrogen in the EU.

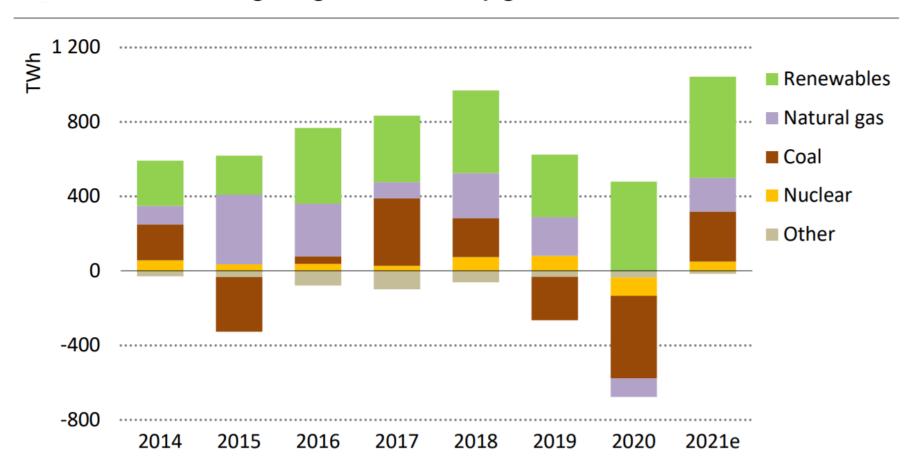
renewable
hydrogen will be
deployed at a large
scale across all
hard-to-decarbonise
sectors.

Source: EC Hydrogen Strategy

Opportunities for renewables



Change in global electricity generation, 2014-2021

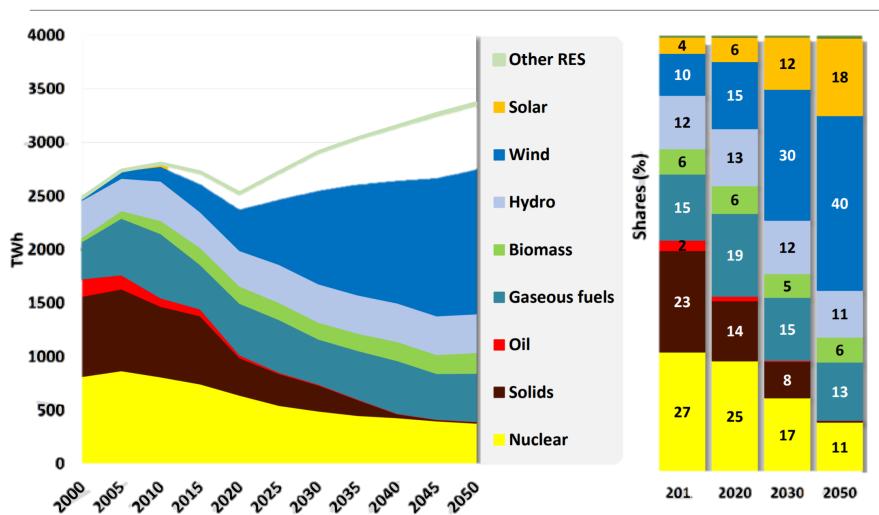


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Opportunities for renewables



Electricity generation by fuel type



Source: EU Reference Scenario 2020, July 2021

ACER/CEER recommend when and how to regulate pure H2 networks



ACER > MEDIA > NEWS

ACER and CEER recommend when and how to regulate pure hydrogen networks

09.02.2021



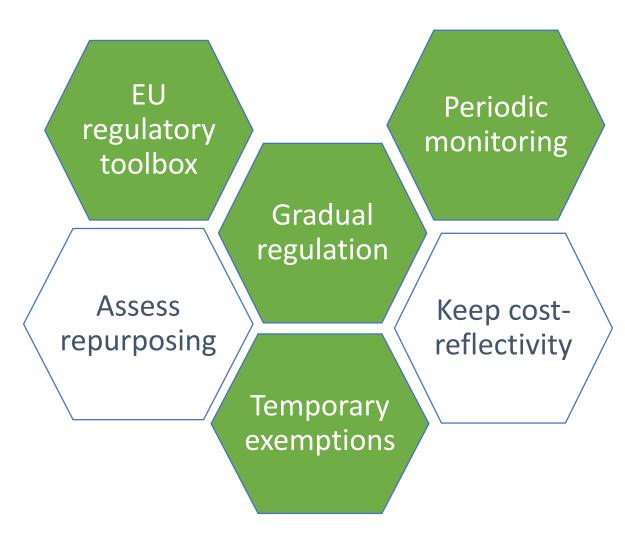






ACER/CEER recommend when and how to regulate pure H2 networks



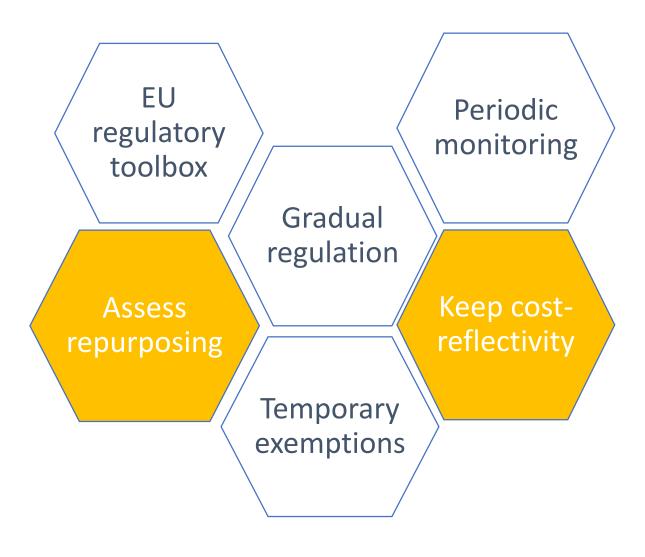


- Gradual regulation → offering sufficient certainty to investors, but flexibility for different stage of developments
- Periodic monitoring

 with a focus on competition and key EU metrics
- EU regulatory toolbox → retain key basic principles:
 - NRAs supervision
 - Third-party access
 - Non-discrimination
 - Transparency
 - Customer protection
 - Unbundling
- Temporary exemptions → for business-tobusiness networks

ACER/CEER recommend when and how to regulate pure H2 networks

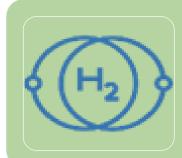




- Assess repurposing → To optimise investments
 - Repurposing can give value to potentially underutilised gas pipelines
 - Develop advanced cost-benefit analyses (CBAs) to incorporate societal values and avoided cost (e.g. for addressing electricity network congestion)
- Keep cost-reflectivity → avoiding crosssubsidisation
 - The gas/hydrogen network costs should be paid by their respective users
 - Sound practical rule: Don't make users 'pay twice' for the same pipe (once for gas, then again for hydrogen)

ACER/CEER Position Paper on H2 and Decarbonised Gas Package





1. Enabling gradual and flexible regulation for hydrogen



2. Ensuring a level playing field in a decarbonised and integrated energy system



3. Empowering and protecting consumers for the energy transition



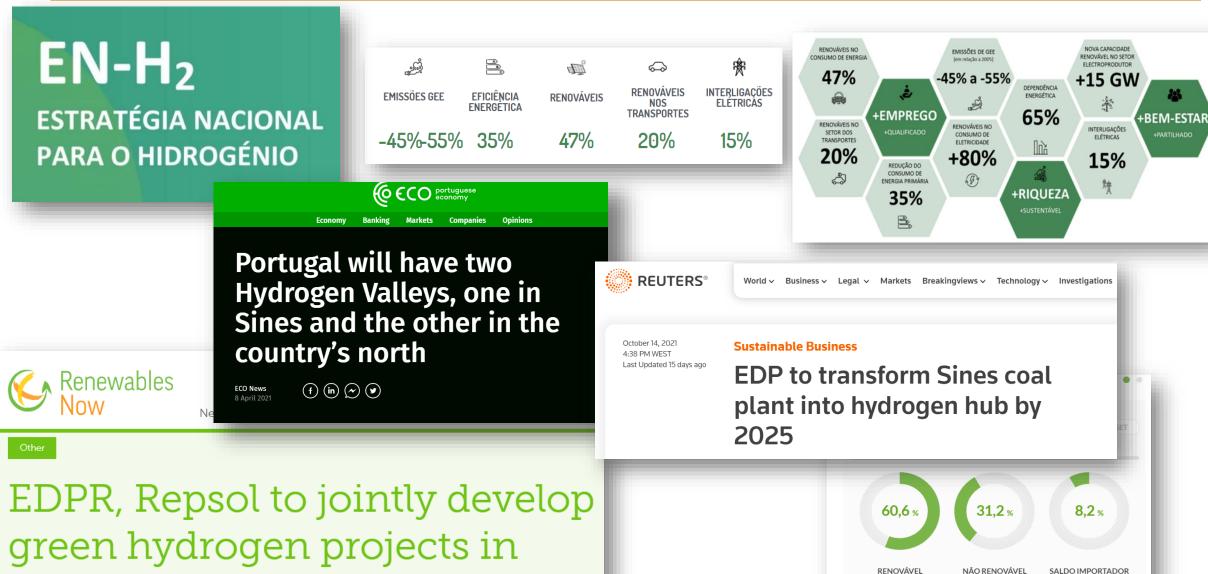




... in Portugal

Iberia





6401 GWh - 3371 GWh

22409 GWh

11516 GWh



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Thank you very much for your attention!