11. The European Hydrogen Economy: A Carrier for the Green and Just Transition?

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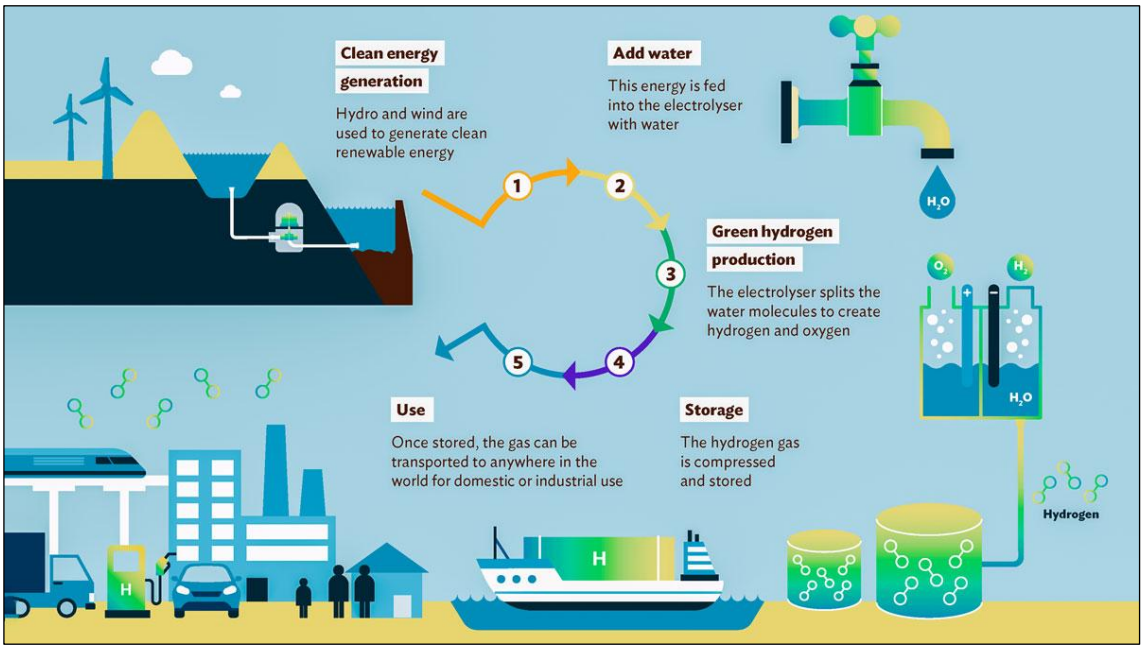


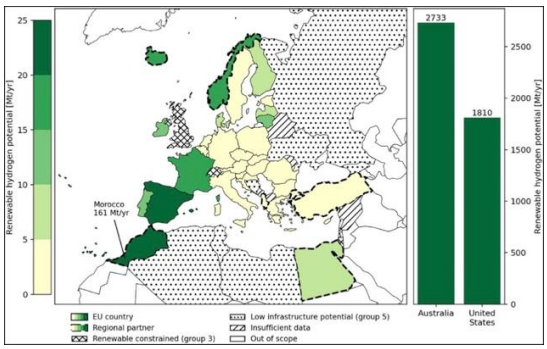
Schematic representation of the cycle of production and utilisation of green hydrogen.

Summary

The case study analyses the social and distributive impacts of the hydrogen economy as a carrier of the green transition with a focus on two "local' contexts: the planned hydrogen valley in the Groningen area and the planned green hydrogen production sites in the Guelmim-Oued Noun region in Morocco. Through the lens of *energy justice*, we focus on the *distribution* of costs and benefits from green hydrogen, as well as the *procedural* dimension of local community involvement, including a *recognition* dimension that acknowledges disparate impacts and contributions, particularly vis-à-vis underserved communities.

Key data points

- Water availability of 620 M3 per person per year in Morocco.
- 44% of people in Groningen perceive their energy spending as high, highest prevalence of municipalities that experience energy poverty in this region.
- Public consultation index.



From Nuñez-Jimenez, A., & De Blasio, N. (2022). Competitive and secure renewable hydrogen markets: three strategic scenarios for the European Union. *International Journal of Hydrogen Energy*, 47(84), 35553-35570.