

# HYDROGEN EUROPE

Energy Infrastructure Forum 2021  
25.11.2021

# Planning the future H2 infrastructure

*Hydrogen Outlooks can complement TYNDPs contributing to the governance of hydrogen network planning in an integrated energy system*

## Kick-start

Fast-tracking of initial projects that achieve the European 1 million ton target by 2024

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Captive production, blending, H2 Valleys, IPCEIs, pipelines, etc.

## Ramp-up

- Building Hydrogen Valleys
- Building a pan-European Hydrogen backbone infrastructure
- Blending hydrogen with natural gas

## Market Growth

Converting large part of the natural gas infrastructure



2020

2025

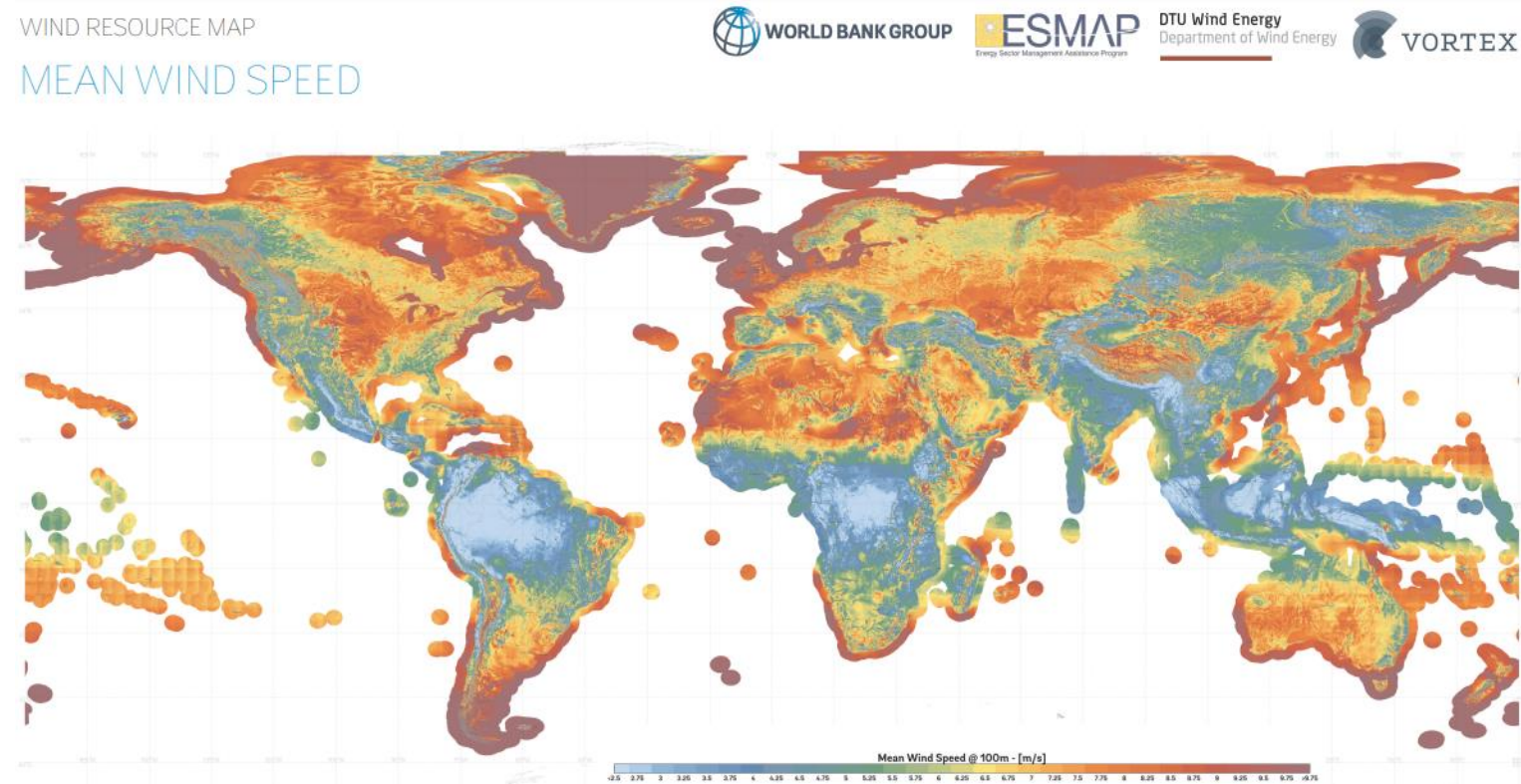
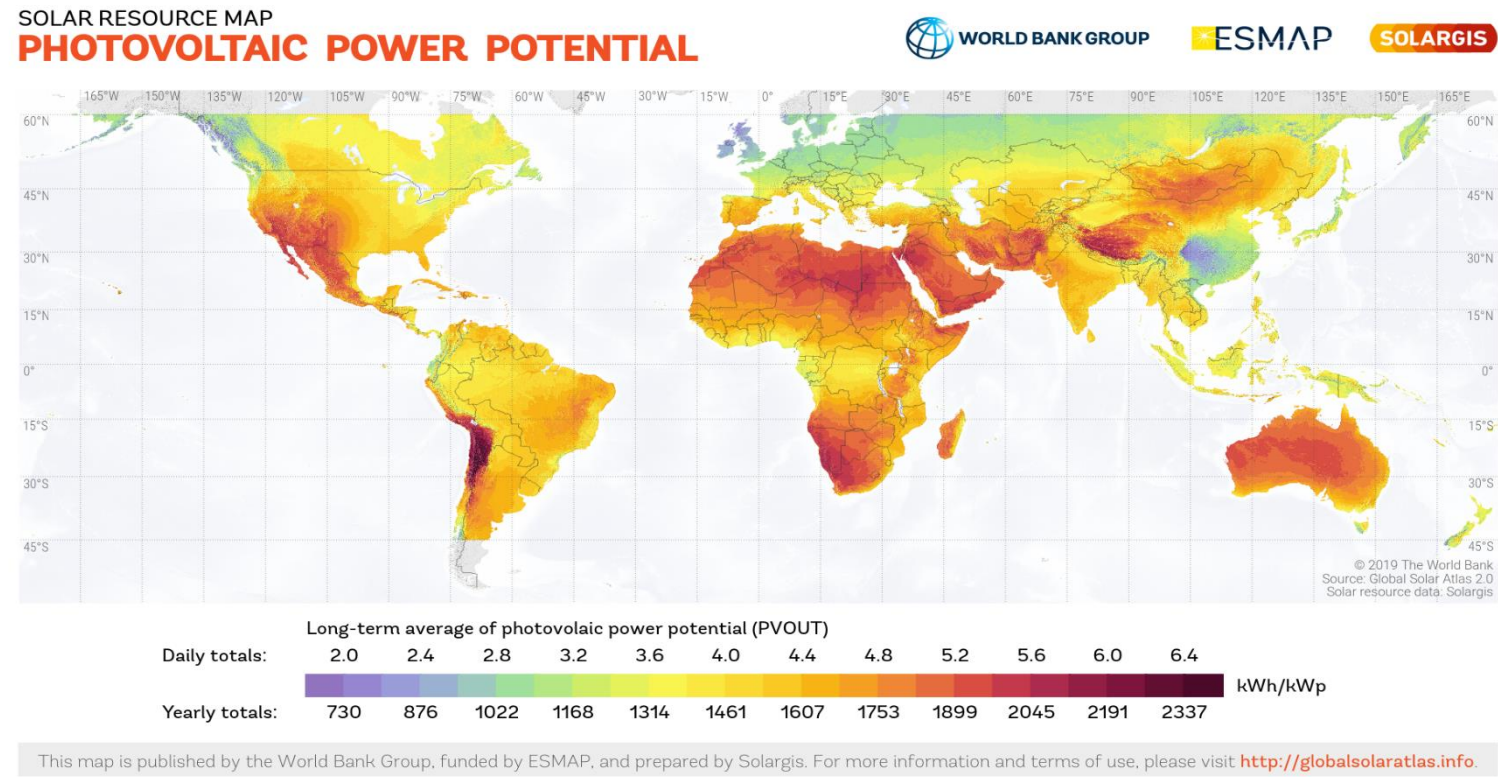
2035

2050



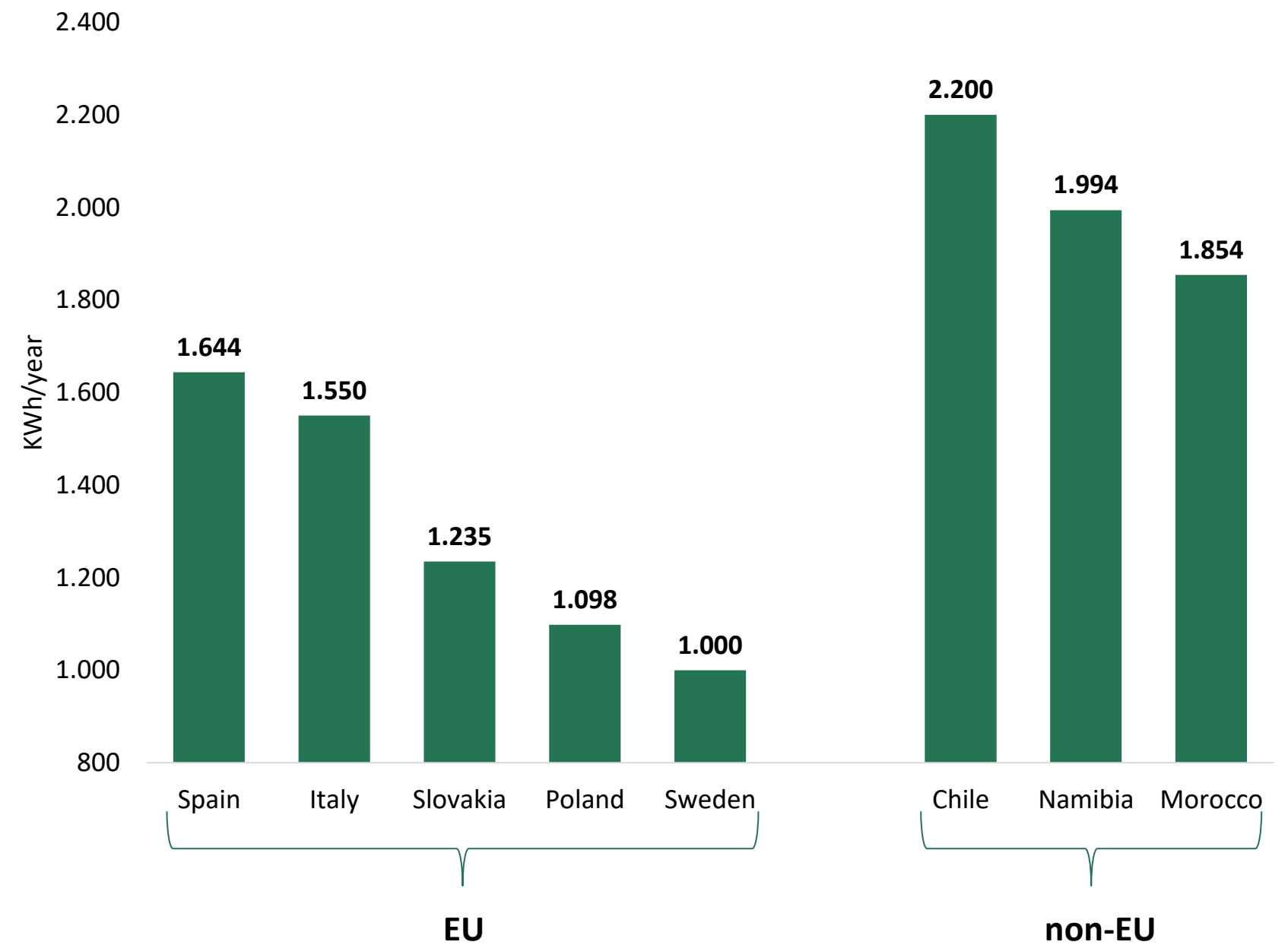


# System efficiency and imports



Source: World Bank Group

## Annual yield from a 1 KW PV



# Key recommendations

- Maintain an approach that takes energy and system efficiency into account.
- Adopt a gradual and flexible approach to regulating the hydrogen market, in line with infrastructure and market developments.
- Continue the logic conveyed in the revised TEN-E proposal (separate h2 category in Annex II) to ensure consistency between legislation.
- Harmonised standards and guidelines for hydrogen quality, safety and procedures including hydrogen purity, pressures and flow speeds as well as measurement and control (new hydrogen initiative). A new European technical standard could be issued, reporting the design criteria to be adopted to engineer new hydrogen pipelines and retrofitting existing pipeline to hydrogen transport.
- Integrate hydrogen project planning into the TYNDP under stricter supervision by the European Commission and ACER.
- Consider the possibility of a safeguard clause regarding existing H2 networks that are largely privately owned.
- Prioritize projects that create synergies between all end use sectors.





**Thank you for your support!**



**Hydrogen  
Europe**

*Propelling global carbon neutrality by accelerating the  
European hydrogen industry.*