## Hydrogen & P2X Hydrogen Europe

Jorgo Chatzimarkakis, CEO June 2022



# Who are we / what do we do?

We represent:

- 350+ Industry Members,
- 29 National Associations,
- 90+ Research organisations (through our Hydrogen Europe Research)
- 25+ European Regions
- We represent the views and aspirations of the hydrogen and fuel cells industry in Europe.
- We promote hydrogen and fuel cells as clean and efficient technologies.
- > We develop, in coordination with our members, the necessary materials, documents and position papers to achieve our mission.
- We help our members to develop their business activities in Europe.





### **REPowerEU: 4 Main Pillars**



### Pillar 3- Substituting Fossil Fuels and accelerating the clean energy transition



Hydrogen Europe

### **Pillar 2- Diversifying energy imports**

#### The EU's external energy engagement on H2 after REPowerEU



## **Increase H2 Demand: Industry & Mobility**

#### EC calls upon Council and EP to align the sub-targets for renewable fuels of RFNBOs in RED II



Source: Modelling using PRIMES

#### 75 % for industry (an increase from 50%)

- Estimated demand by 2030: 8.4 mt (excluding refineries)
- 3.6 mt for industrial heat (x4)
- 3.2 mt in chemicals (x2.5)
- 1.5 mt in steelmaking (switch 30% steel production to hydrogen-based DRI-EAF)

#### 5% for transport (an increase from 2.6%)

- Estimated demand by 2030: 6.4 mt (including in refineries) (x3)
- Increase the share of zero-emission vehicles
- Adopt proposals on Alternative fuels
- Adopt a legislative package on greening freight transport by 2023



### H2 demand in transport



- Target: 13% GHG emission reduction.
- Plus 3 sub-targets on energy content:
  - RFNBO: 2.6% (1.2x in maritime and aviation)
  - Advance biofuels: 2.2% (1.2x in maritime and aviation)
  - Conventional biofuels: ~7%
  - EV: no target (volumes based on impact assessment)
- Mechanism allowing fuel suppliers to exchange credits for supplying renewable energy to the transport sector.
- RFNBO: 2.6% ~ 72TWh (2.2 Mton H2)
  RFNBO: 5% ~139TWh (4.2 Mton H2)



- RES electricity is determined by multiplying the amount of electricity supplied to that sector by the average share of RES-E supplied in that MS in two previous years - Remaining: Assuming zero-emission fuels with no multipliers

### Suggested RED transport subtarget in RePowerEU



Current sub-sector targets on RFNBOs within FuelEU Maritime And REfuelEU Aviation do not match the increased ambition and strategy regarding RFNBOs in road transport

- FuelEU Maritime- proposed 6% e-fuels target
- RefuelEU aviation- 0.7% e-fuels by 2030



### HRS in the EU: very different levels of ambition





## Thank you for your support!



Propelling global carbon neutrality by accelerating the European hydrogen industry.

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12eroNetZero Update