

Picture courtesy of Gas Connect Austria

Hydrogen imports towards net-zero 2050

Financing Powerfuels Pathways – Powerfuels conference

Louis Watine

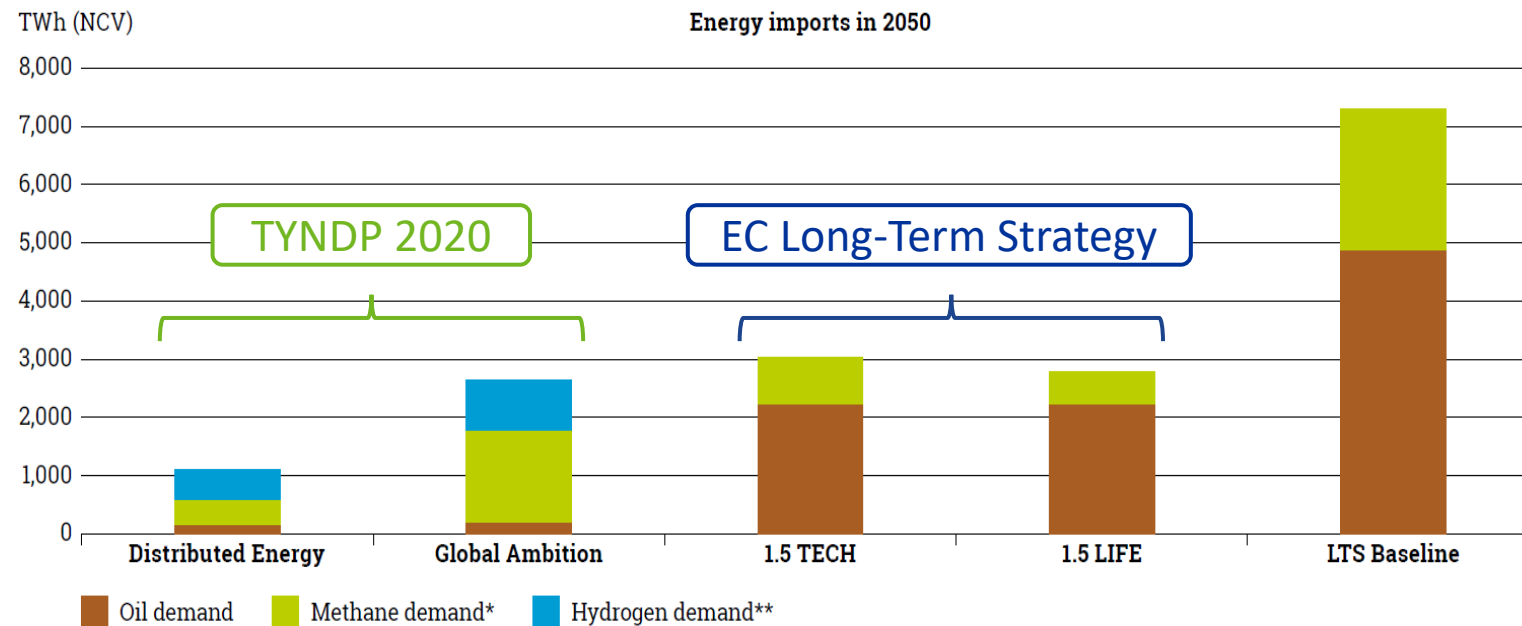
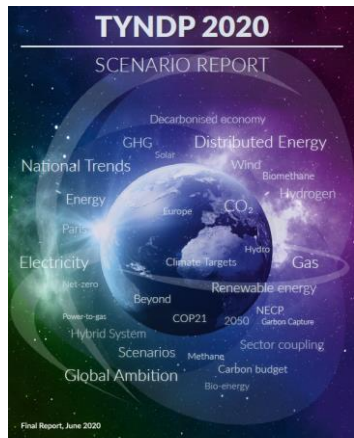
Deputy director, System Development

Brussels, 9 September 2020

Hydrogen imports in 2050

1,000 to 2,500 TWh/y

need for decarbonised imports by 2050
 Source: TYNDP 2020 scenario report



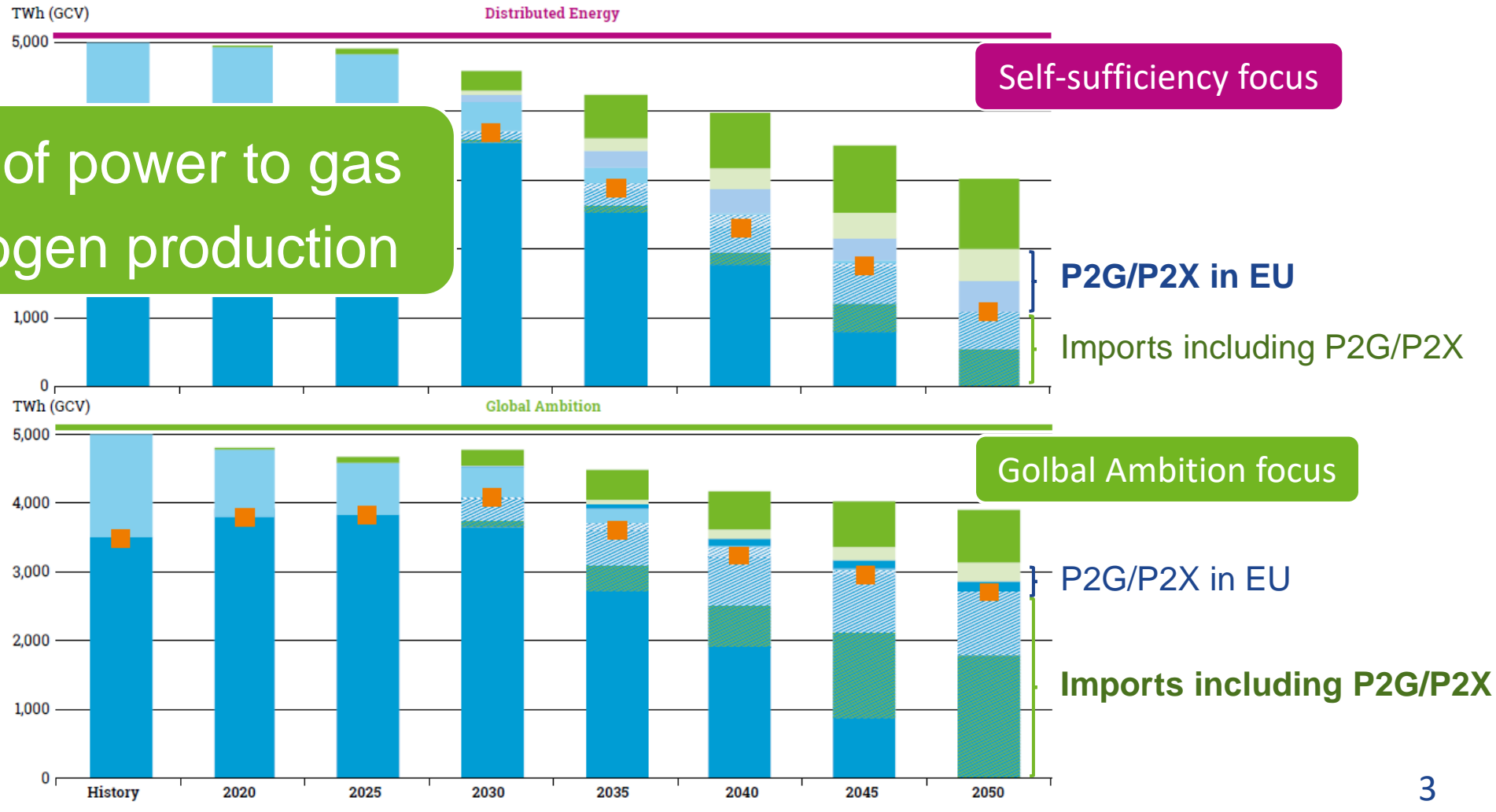
* decarbonised, either by natural gas imports with post-combustive CCU/s or any other technology
 ** natural gas converted to hydrogen at import point/city gate or direct hydrogen imports

Role of power-to-gas / power-to-liquids

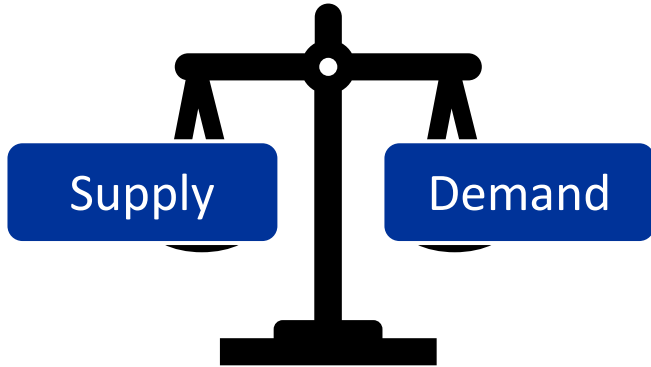
0.1%

Current share of power to gas in global hydrogen production

Source: IEA



Conditions for infrastructure development

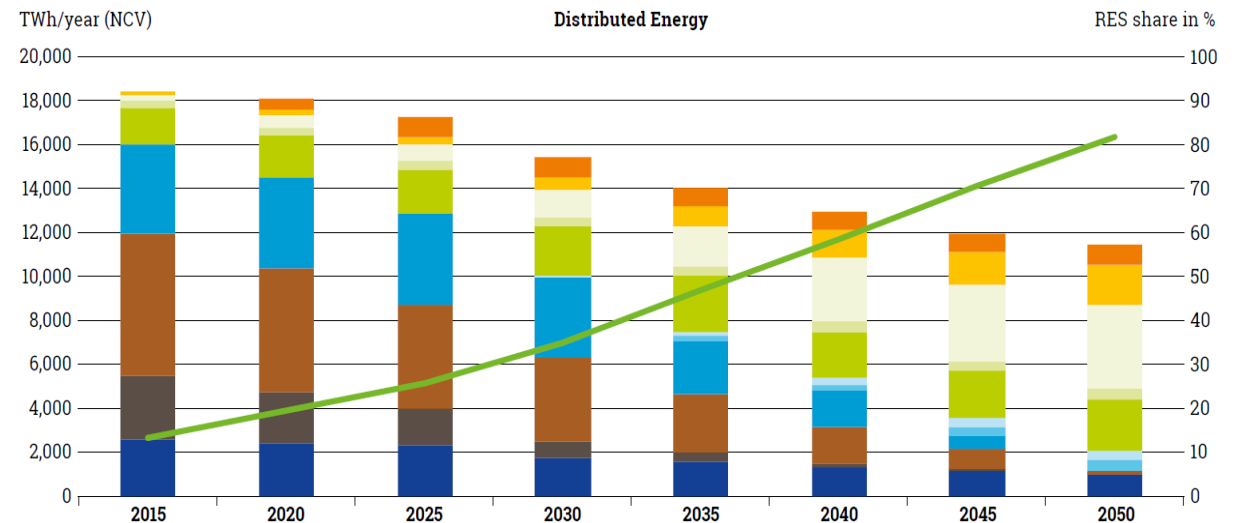


- Sustainability
- Security of supply
- Market integration and competition

EU & national policies

- Hydrogen strategy
- Energy System Integration strategy

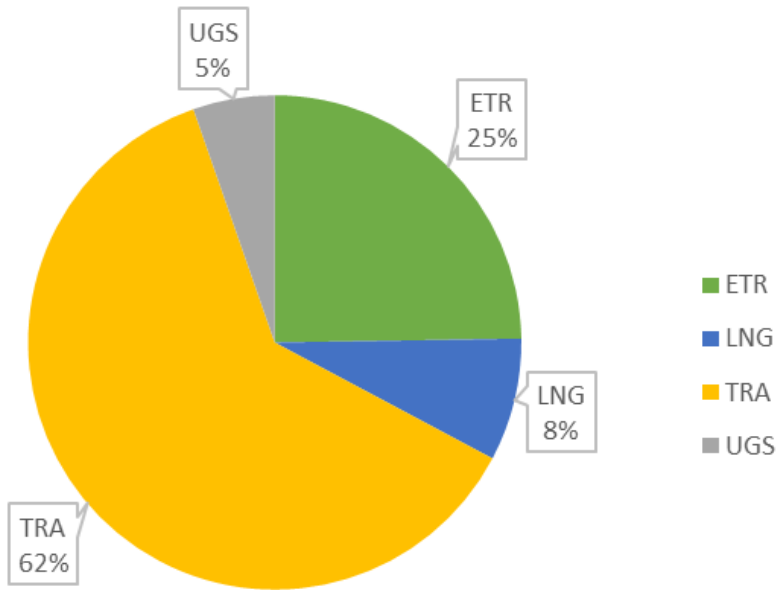
CO ₂ price		2020	2021	2023	2025		2030			2040		
					BE	G2C	NT	DE	GA	NT	DE	GA
€/tCO ₂	CO ₂ price	19.7	20.4	21.7	23	56	27	53	35	75	100	80



Gas infrastructure has initiated the transition

25%

Infrastructure projects in TYNDP 2020 related to the Energy Transition

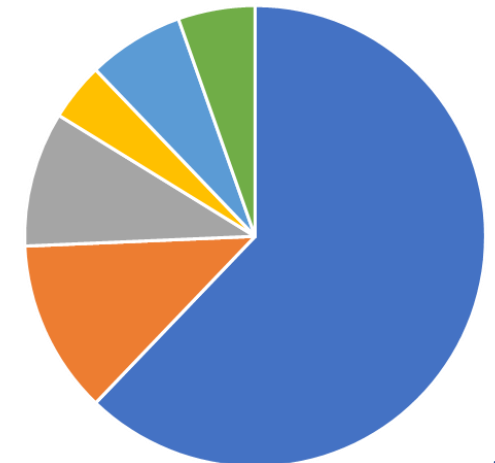


Projects submitted to TYNDP 2020

Hydrogen projects account for +55% of ETR projects, including P2G and repurposing of existing infrastructure

Types of ETR projects included in TYNDP 2020

- P2G and Hydrogen (including storage)
- Biomethane Production and injection
- CCS/CCU
- Reverse flow DSO-TSO
- CNG/LNG for transport (road, train, sea)
- Other





Thank you for your attention

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