

ENTSOG 2050 Roadmap for Gas Grids Action Plan

Energy Community, 15th Gas Forum

“ENTSOG - New role of gas industry in transition to low carbon economy”, 30 September 2020

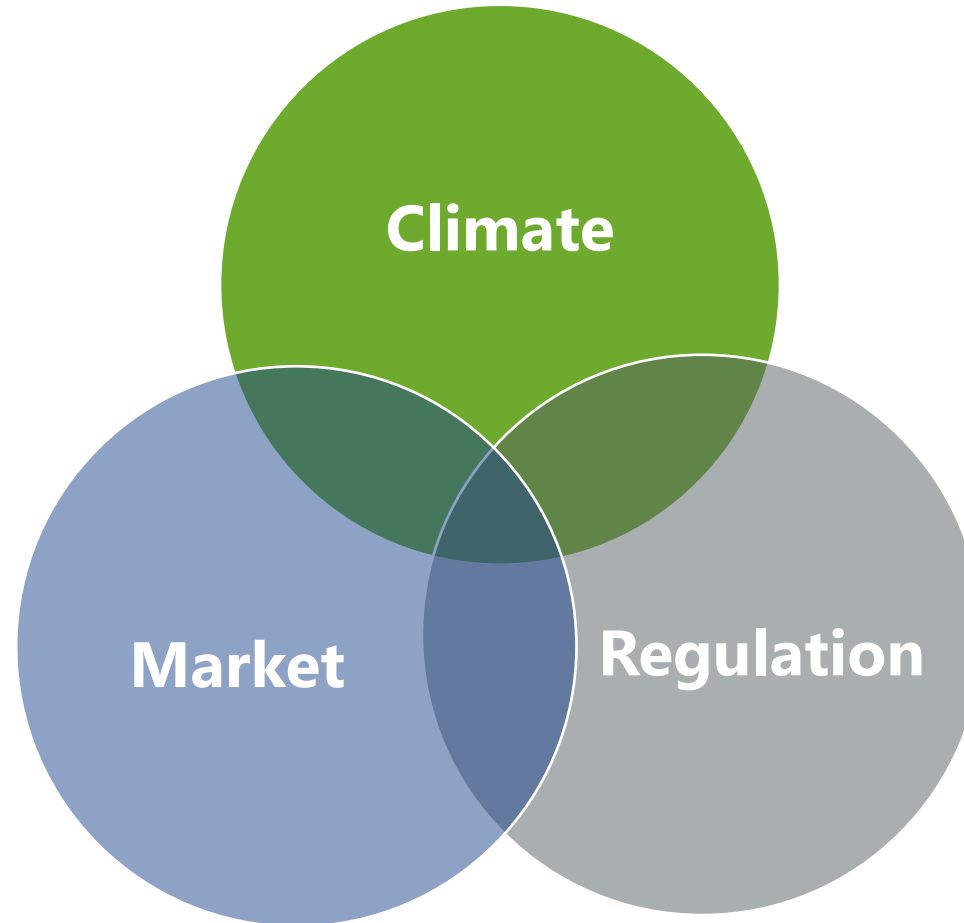
Agenda for Decarbonising Europe's Gas Grids



Markets	Infrastructure	TSO's role
<p>Same market principles for H2 & gas</p>	<p>Delivering EU's Future Energy Networks</p>	<p>TSO's as integrators of energy system</p>
<ul style="list-style-type: none"> • Open access to grids & neutral TSOs • EU-wide GOs & certificates linked to ETS • GHG assessment of all energy carriers 	<ul style="list-style-type: none"> • Include EU H2 backbone in TYNDP 2022 to connect clusters • Interlinked ENTSOG/ENTSO-E Model • Cross-sectoral infra planning 	<ul style="list-style-type: none"> • Smart TSO services already supporting clusters • TSOs as owners & developers of H2 infra • TSOs as essential system integrators for all molecules and with electrons

1. Markets: Same principles for H2 & gas

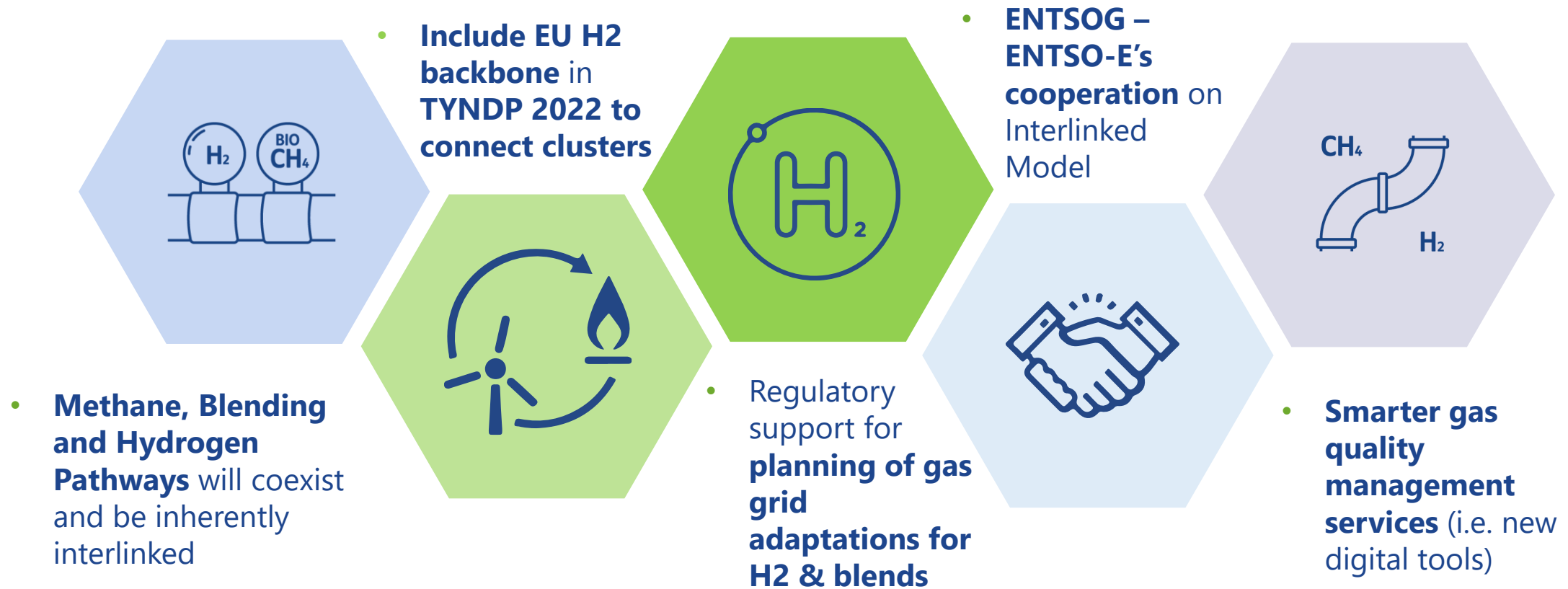
- EU-wide GOs & certification system linked with the ETS



- All H2 types to compete on an objective basis from clusters to an integrated market

- Market design based on the same principles

2. Infrastructure: Delivering Europe's Future Energy Networks



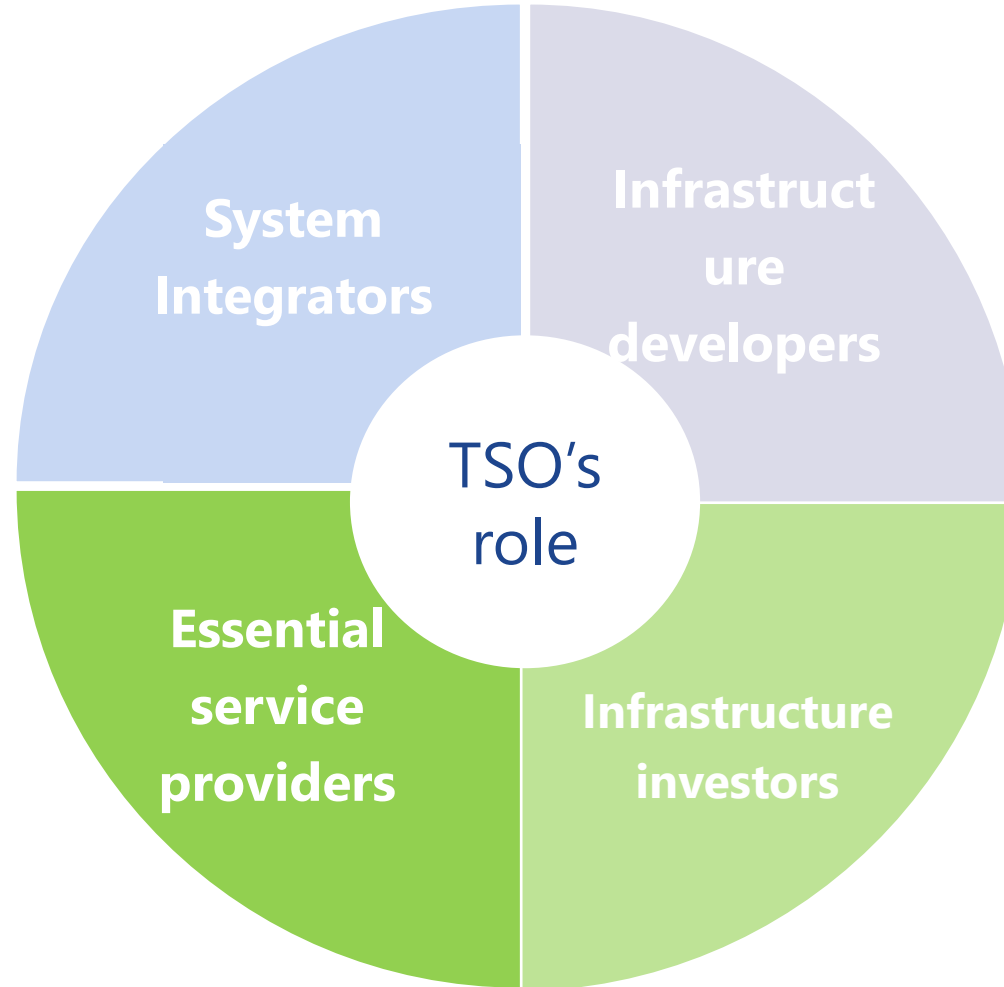
3. Gas TSOs role as Integrators of Energy System

System Integrators

between **gas compositions** (methane-hydrogen) & **energy carriers (molecules & electrons)**

Essential service providers

Max. integration & interoperability of renewables & decarbonised gases in the grid



Infrastructure developers

TSOs to own, plan, build and operate dedicated hydrogen networks

Infrastructure investors

TSOs could play a role in the initial stages of the emerging hydrogen market

ENTSOE's Next Steps: Stay Tuned



Clean Hydrogen Alliance

active participation



Advisory Panel for the Future Gas Grids

establishment of a high-level body



Joint TYNDP Advisory Panel

establishment of a joint ENTSOG – ENTSO-E Panel



Guarantees of Origin

continuation of prime mover group



Gas quality handling and hydrogen

establishment of prime mover group



SET-Plan

participation to Energy Efficiency in Industry (IWG6)



Thank you for your attention

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