Hydrogen Council

Hydrogen Energy Ministerial Meeting

THE START OF A NEW CYCLE...

Pierre-Étienne Franc VP Hydrogen Energy, Air Liquide Co-secretary, Hydrogen Council

The Hydrogen Council

Who we are



A strong and diverse group



Hydrogen

Council

Our vision

Hydrogen has a key role to play in the energy transition



Sources:

"Hydrogen, Scaling Up" report, 2017 "Path to Hydrogen Competitiveness" report, 2020 Based on **real industry data**, the Council sees hydrogen as an enabler of the future energy system, growing its role over time and delivering tangible benefits:

By 2030

H₂ scales up to achieve competitiveness

 ✓ Cost falls sharply, making hydrogen a competitive low-carbon option across 22 applications – equivalent to 15% of annual global energy demand

By 2050

H₂ reaches full potential

- ✓ 6 GT of CO_2 abatement annually
- ✓ 30 million jobs
- ✓ \$2.5 trillion market

We have reached the hydrogen era!

This decade is decisive for the energy transition



The Climate emergency is already here







Opportunity to participate fully in the energy transition

Economic consequences of the COVID pandemia

Significant market developments



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Supporting policies on the rise





Bringing the planet's pioneering leaders on board

What's needed for success



Developing a vision by the major and regional organizations

Developing support programs and objectives by policy makers



Hydrogen scale up supported by these tens of billions





Three pillars to succeed: Safety, Clean Pathways & Cost

Safety — our collective license to operate!

The nature of hydrogen-related risks does not change with a wider distribution



Clean hydrogen needed for all markets



Clean hydrogen to reach competitive level

Renewable hydrogen production costs can be reduced by 60% through 2030





Competitiveness — Significant cost decrease at sight



Time to act is now!

COVID-19 Recovery: A once-in-a-generation opportunity

How we respond to this crisis will define the success of hydrogen and the clean energy transition for at least a generation.

- **COVID-19 as the 'great reset'**: unique opportunity to build back better and redirect funds into clean technologies with long-term environmental and economic benefits
- 2050 targets are only 1 investment cycle away: investments made today will shape our energy systems for the coming decades
- Avoid a 'CO₂ lock-in': fundamental for H2 project to reach scale within the next 10 years to bring down costs



...A secure and affordable clean energy future is possible if we place hydrogen at the core.



Urgency for energy transition and its investment potential are now triggering regulations

Let's make the decade of hydrogen a reality!



Regulation will bring volume

Volume will bring cost down



Hydrogen technologies can now scale up



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Thank you for your time!

secretariat@hydrogencouncil.com