What in the World Is Happening with Hydrogen?

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August 25th, 2021

Hydrogen Council

If You Haven't Noticed Hydrogen is on the Rise

• \$500B in new project announcements

- Extensive policy and funding support
- Many major players engaged
- Widespread recognition of the need

Hydrogen Council

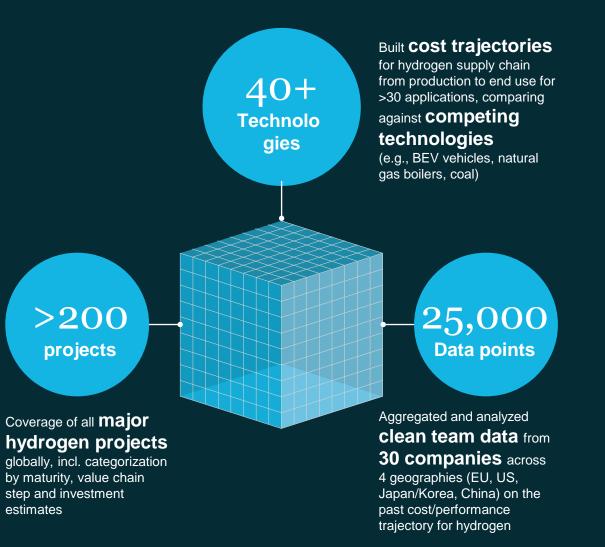


Life takes Energy Hydrogen lets life flow

Today 15% Electrons 85% molecules
Flow of energy in time and space takes carriers
Hydrogen is the last stop on our journey

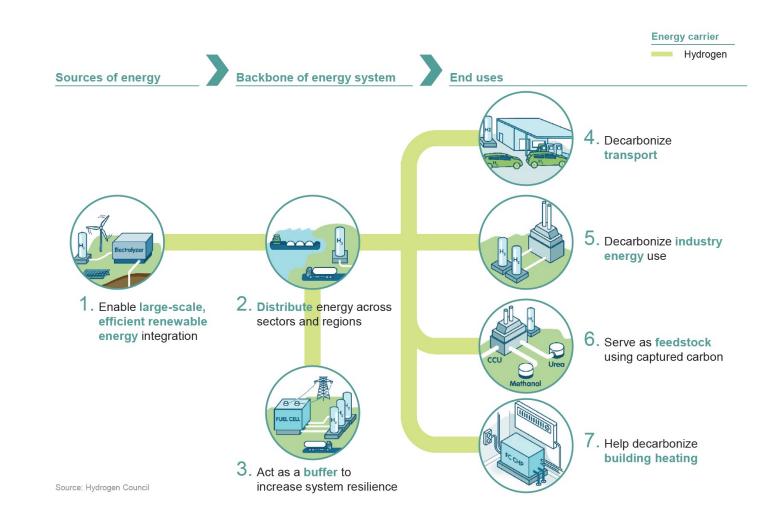
Hydrogen Insights is developed by the Hydrogen Council and McKinsey... ...and covers investments, scale-up and cost competitiveness of hydrogen





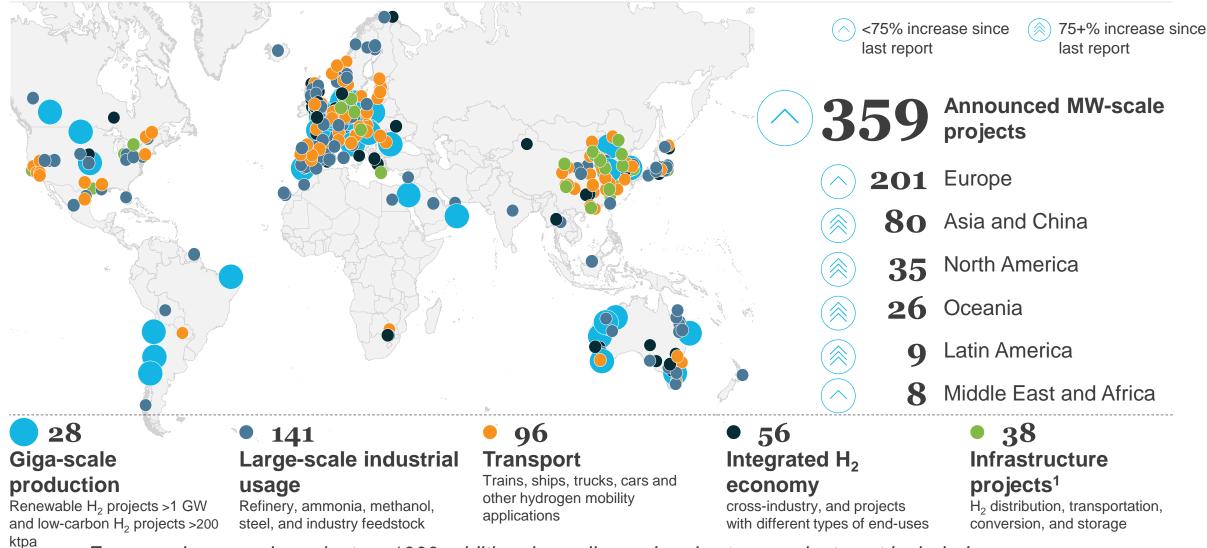
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Hydrogen Delivers Seven Critical Functions for a new energy world





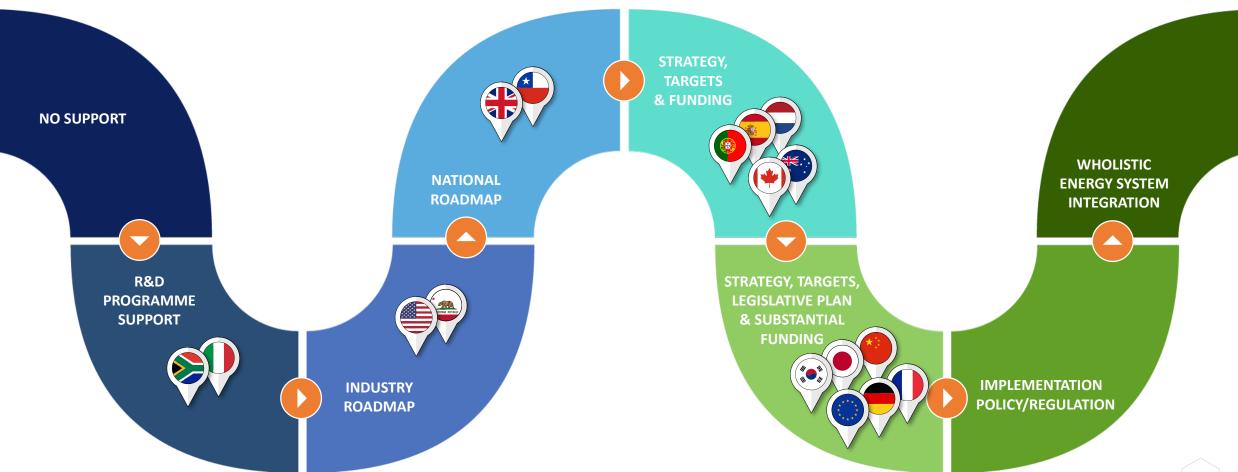
131 large-scale projects announced since January – Europe continues to lead with more than half of all projects



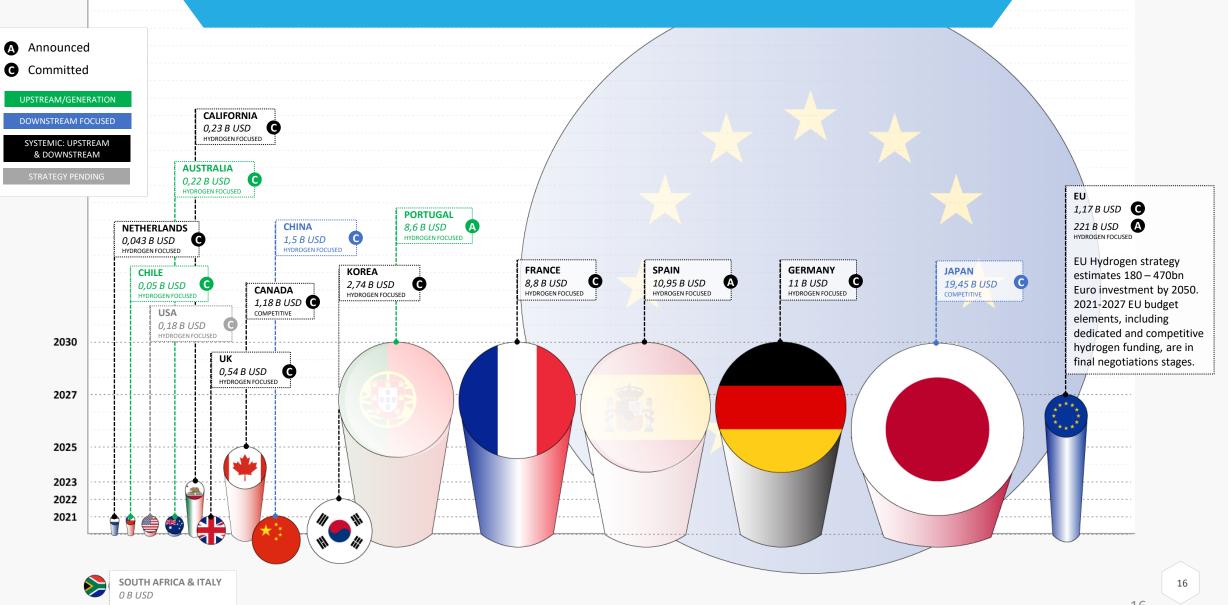
Focus on large-scale projects, >1000 additional, smaller and early stage projects not included

1. Includes 9 hydrogen production projects in China without announced end-use

HYDROGEN STRATEGIES (1/2)



HYDROGEN STRATEGIES (2/2)



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Status as of

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January 2021



large-scale projects¹ announced worldwide

P70

bn USD pledged by governments for development of hydrogen economy



1. Focus of the project tracker are large-scale hydrogen projects; there are >1000 additional hydrogen projects at smaller scale that are tracked here The world of hydrogen has changed from the last publication to now



Hydrogen Insights Update July 2021



large scale projects announced worldwide

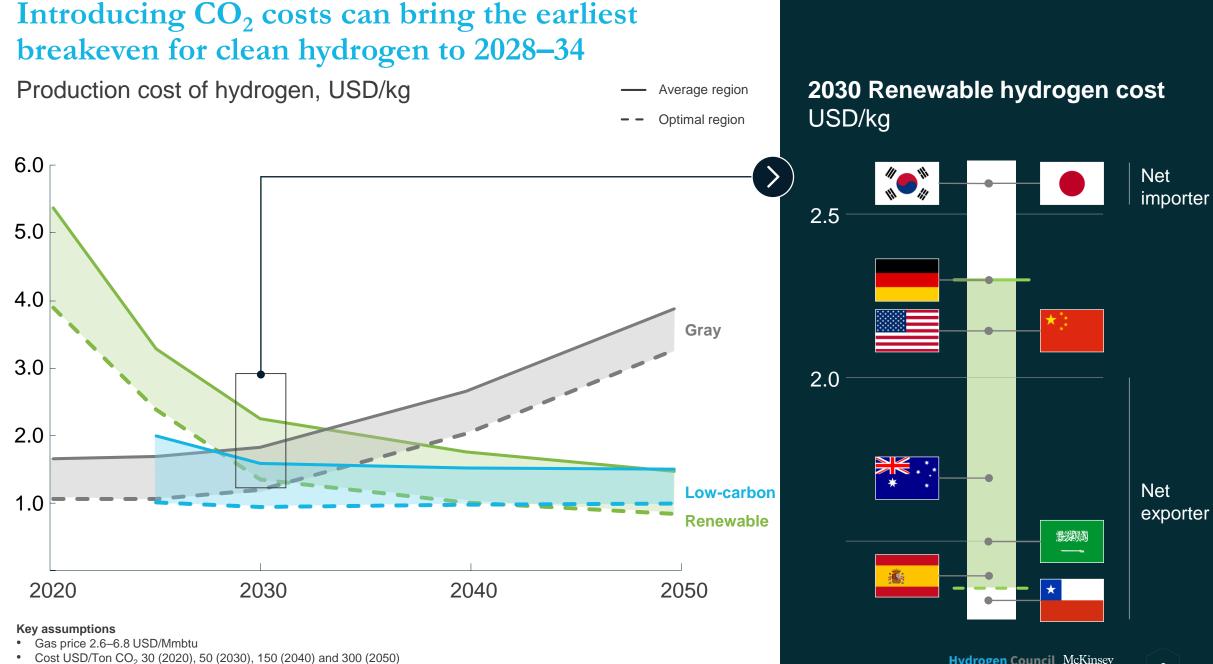


bn USD pledged by governments for development of hydrogen economy



electrolyzer announcements globally, +90 GW on initiatives/studies (e.g. 67 GW HyDeal)

3



LCOE USD/MWh 25–73 (2020), 13–37 (2030) and 7–25 (2050)

8

Where is your Hydrogen Story?

- Cost trajectory is clear and attractive
- Complementary to renewables
- Fully localizable story
- Growing policy support around the world

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