

# Industry progress and lessons learned from the first wave of mature clean hydrogen projects



# World's largest and only CEO-led coalition

## Steering members



## Supporting members



Founded at  
  
 In 2017

Grown from 13 to  
 ca **140**  
 companies

**6.8**  
 MILLION  
 FTEs

**\$6.4**  
 TRILLION in  
 revenues

**ONE  
 SHARED  
 VISION**

**\$9.0**  
 TRILLION market  
 cap

# | Global hydrogen progress

**\$110 bn**  
committed as  
of 2025

**10X**  
growth in the past  
5 years

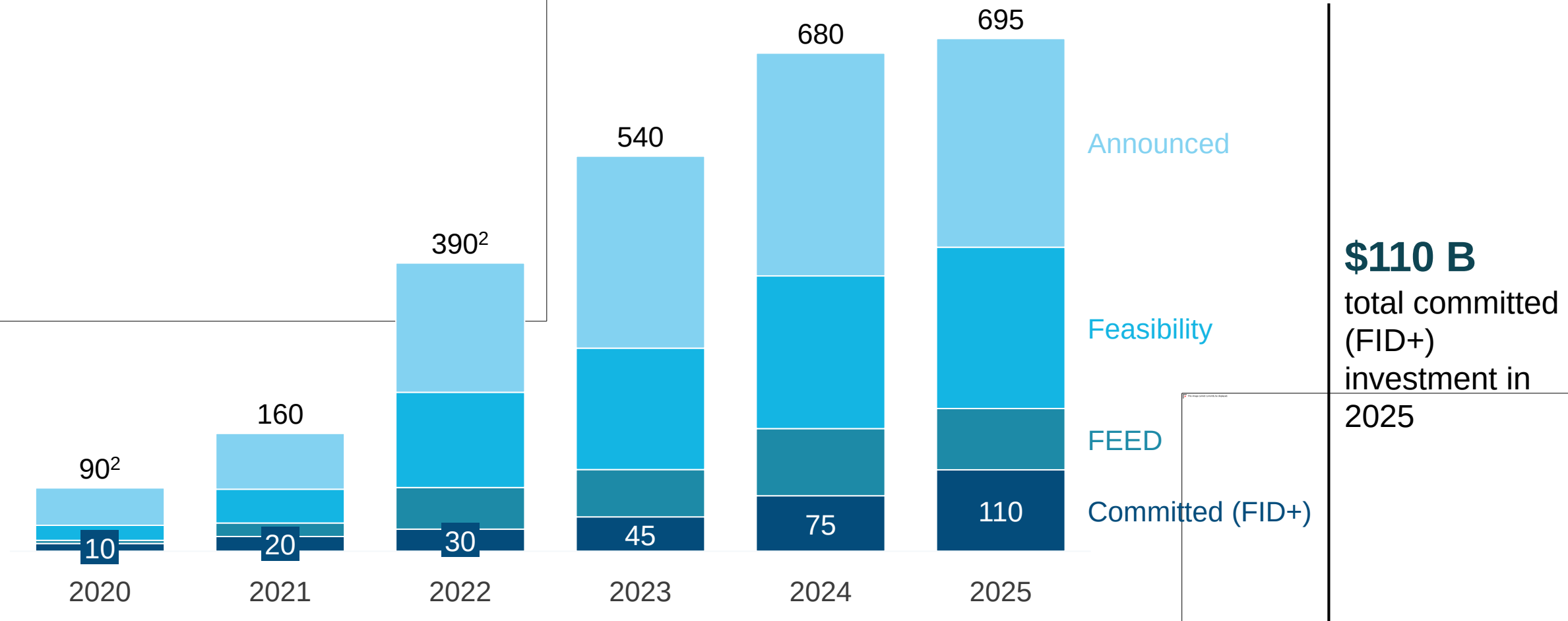
**510**  
projects past FID, in  
construction or  
operation



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<https://compass.hydrogencouncil.com>

# Clean hydrogen project pipeline continues to mature with committed investment growing over 50% year over year to \$110 billion

Investment pipeline in clean hydrogen projects by 2030, \$ billion<sup>1</sup>

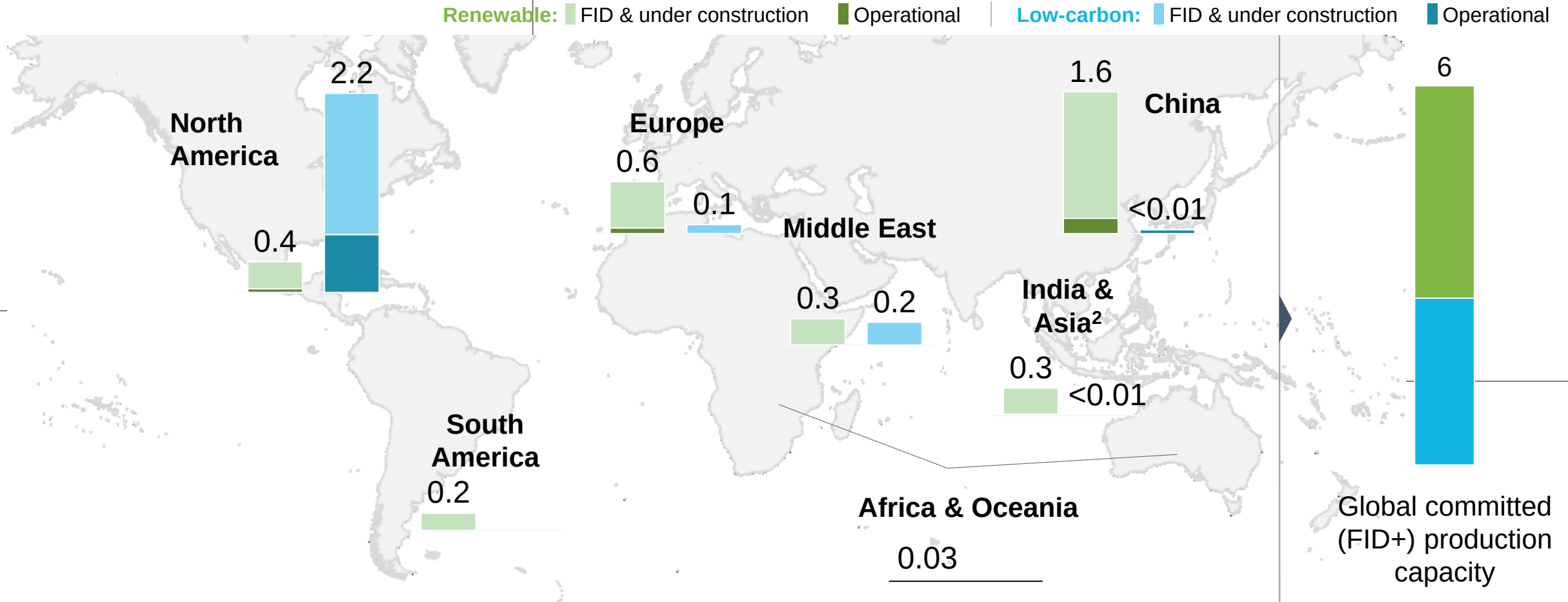


1. Includes investment across all value chain steps from production through end use.

Source: Hydrogen Council & McKinsey Project & Investment Tracker, as of December 2020, May 2022, May 2024 and July 2025.

# Approximately 6 mtpa of clean hydrogen capacity is committed, with the majority concentrated in North America and China

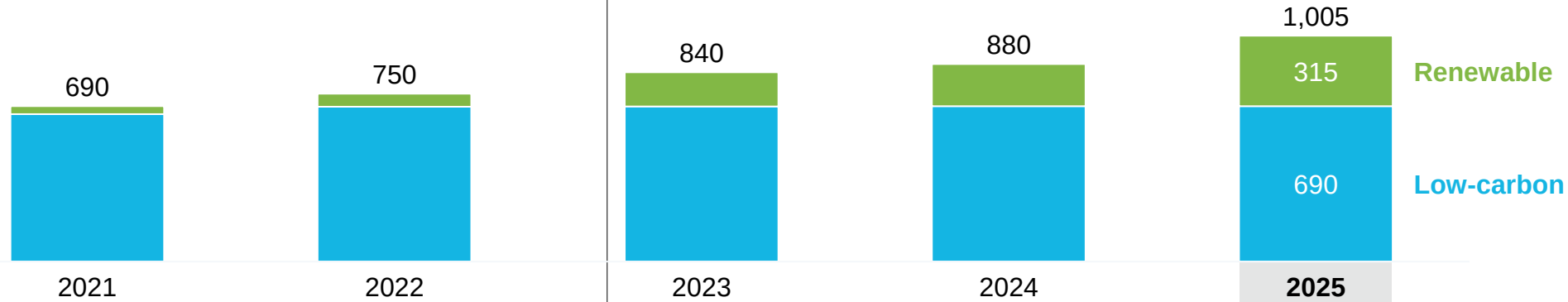
Committed (FID+) production capacity through 2030 by project status, mtpa H<sub>2</sub>e



Source: Hydrogen Council & McKinsey Project & Investment Tracker, as of July 2025.

# 1 mtpa clean hydrogen capacity was operational in 2025 with China accounting for about half of online renewable capacity

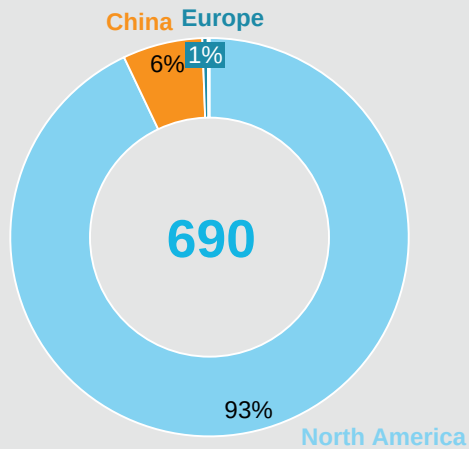
Operational clean hydrogen capacity by pathway and region, ktpa H2e



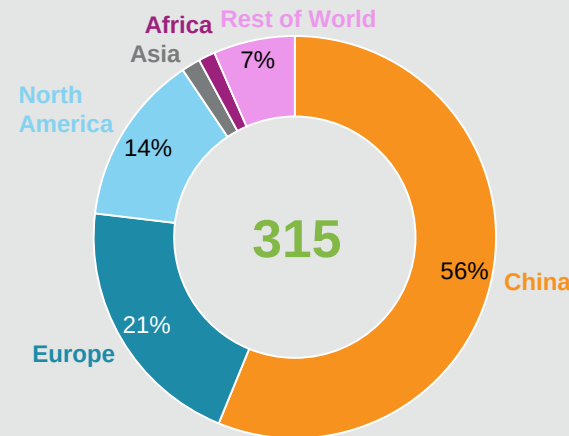
8x

Growth in operational renewable hydrogen capacity in the last five years, including 65% increase since last year

Low-carbon



Renewable



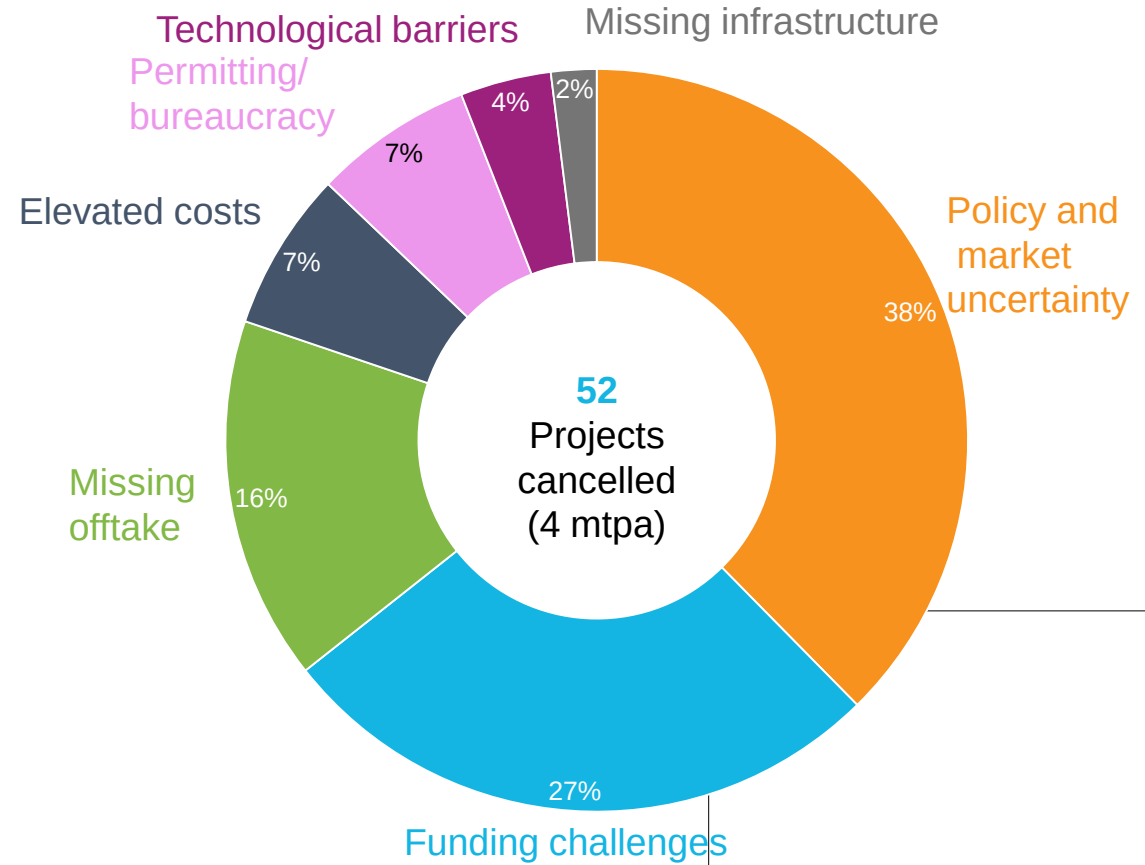
56%

Chinese share of operational renewable hydrogen capacity today

# Reasons for announced project cancellations

**Policy uncertainty is the no. 1 risk factor of attrition or delays**

% of # of projects

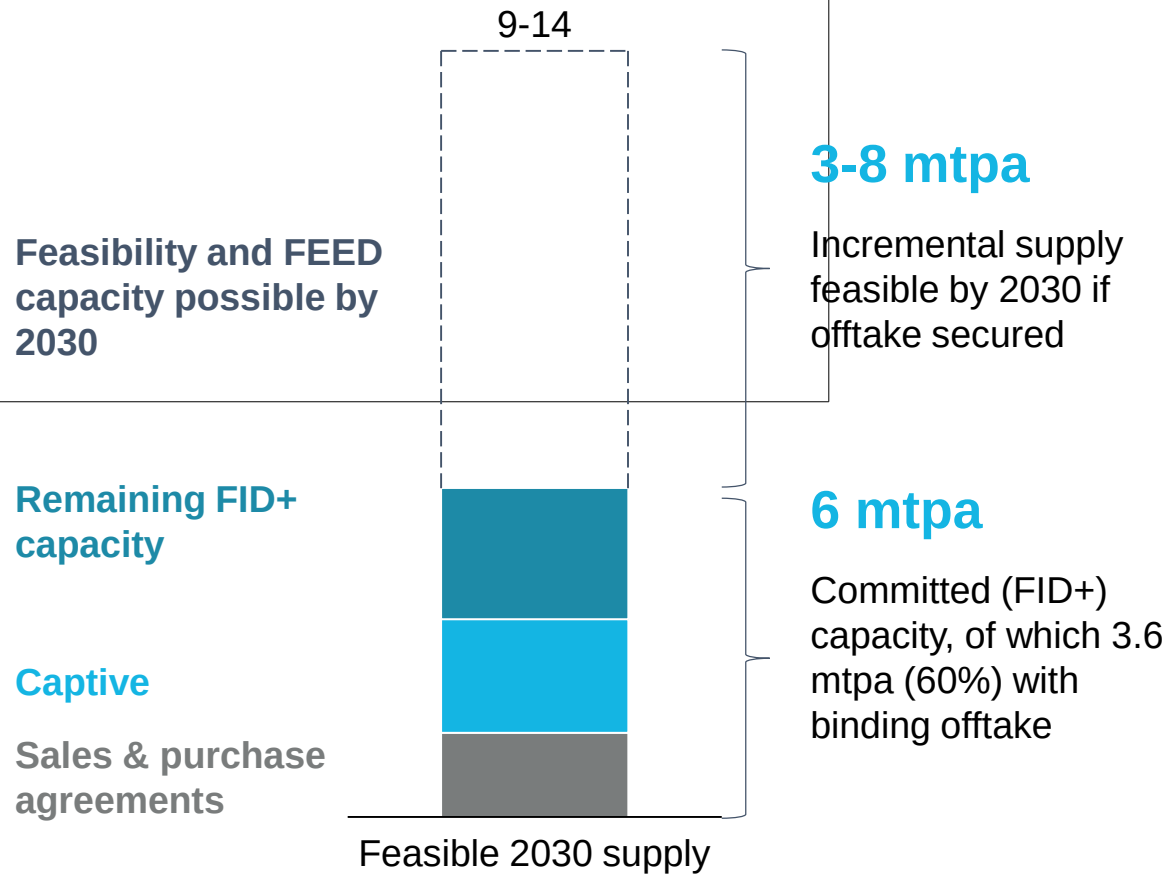


<sup>1</sup>Total publicly announced project cancellations is 52. Ratio of project cancellation reasons excludes 7 projects across Europe, North America, Oceania, and South America with no announced cancellation reason.

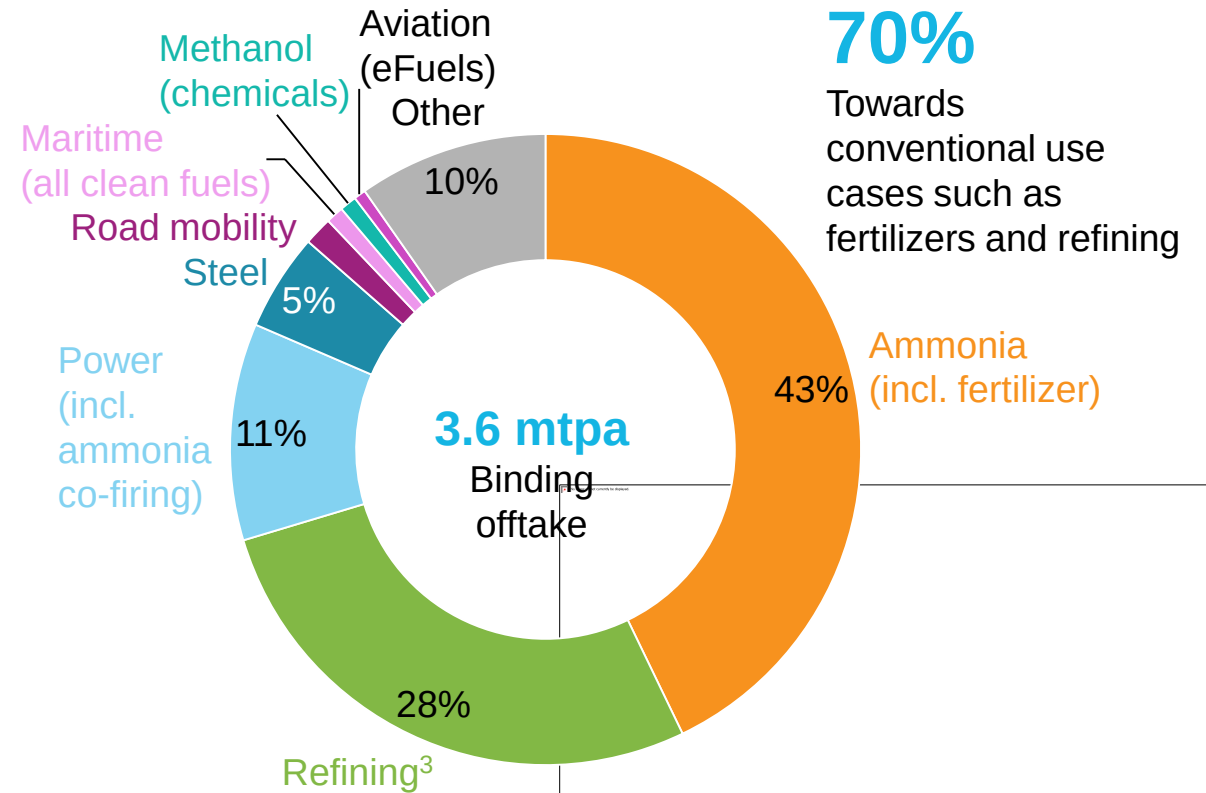
Source: Hydrogen Council & McKinsey Project & Investment Tracker, as of July 2025; Press search conducted to map cancellation reasons where publicly available.

# 3.6 mtpa of binding offtake has been secured globally, with existing use cases making up 70%

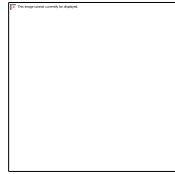
## Potential 2030 clean hydrogen supply by type of offtake secured, mtpa H2e



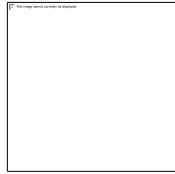
## Clean hydrogen offtake by end use sector, mtpa H2e



# Hydrogen Council CEO Summit: Lead. Build. Deliver.



Demand activation



Pragmatic policy



Enabling  
infrastructure



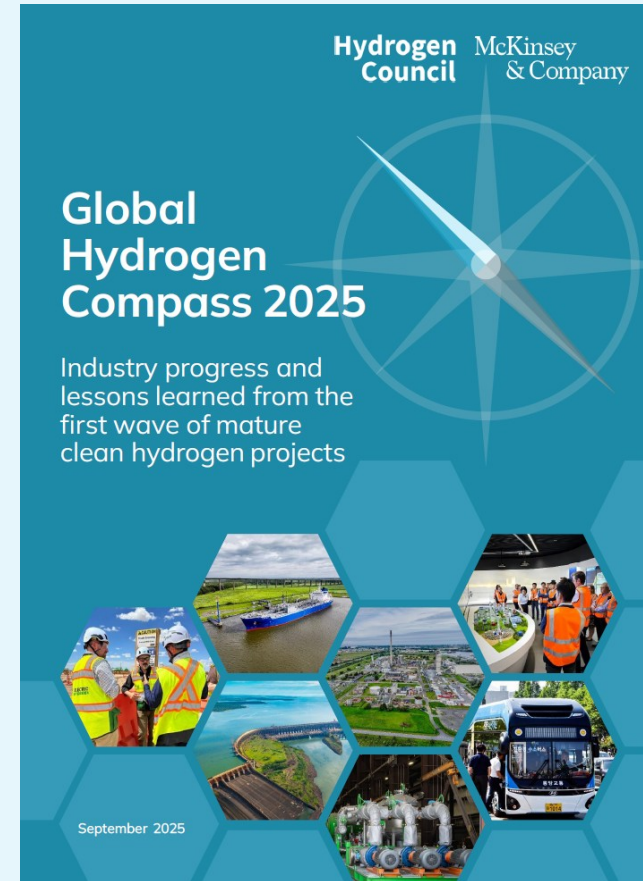
Global standards



Strong partnerships



# THANK YOU!



Learn more about the report at  
<https://compass.hydrogencouncil.com>