

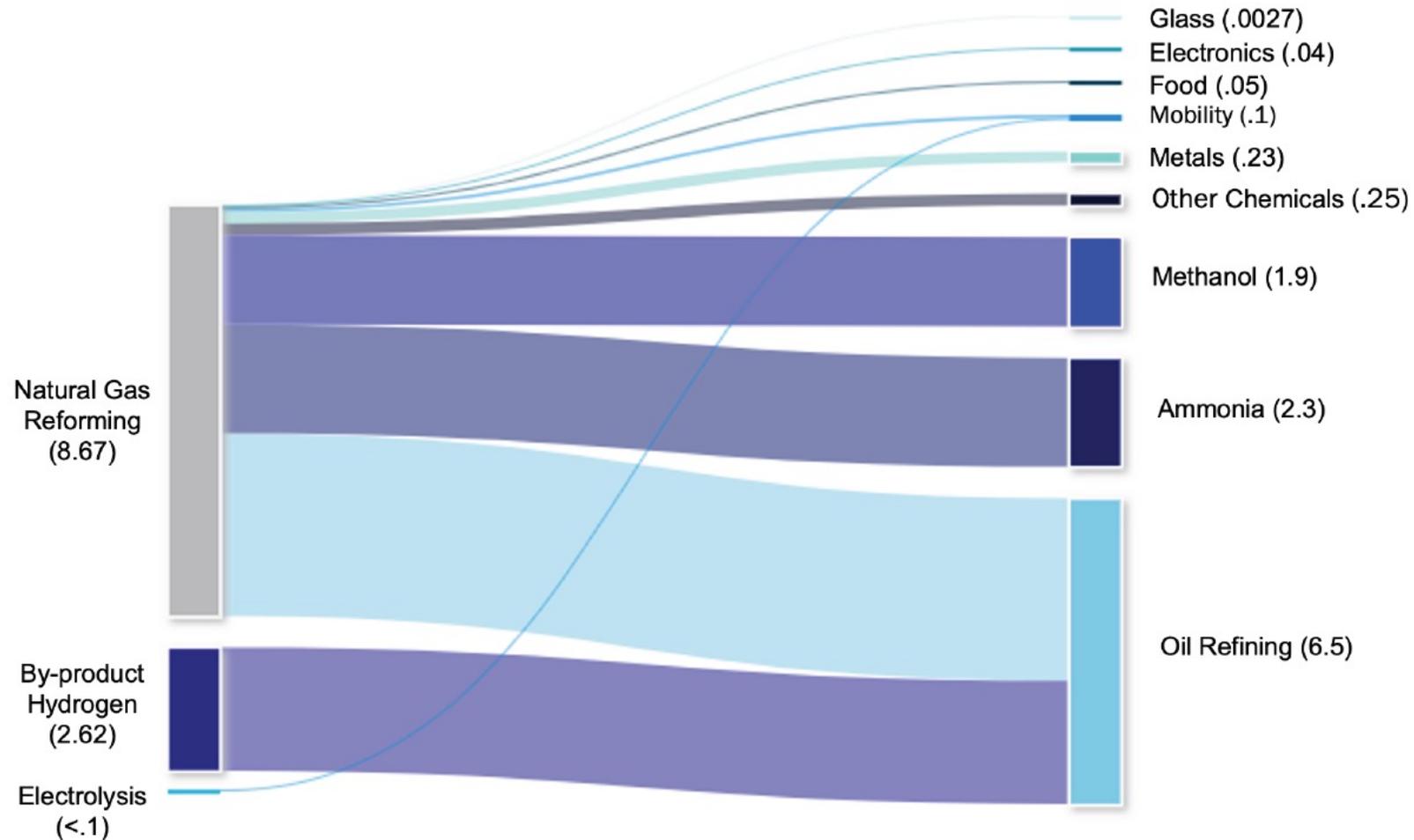
Reclaiming Hydrogen for a Renewable Future:

Distinguishing Oil & Gas Industry Spin From
Zero Emission Solutions

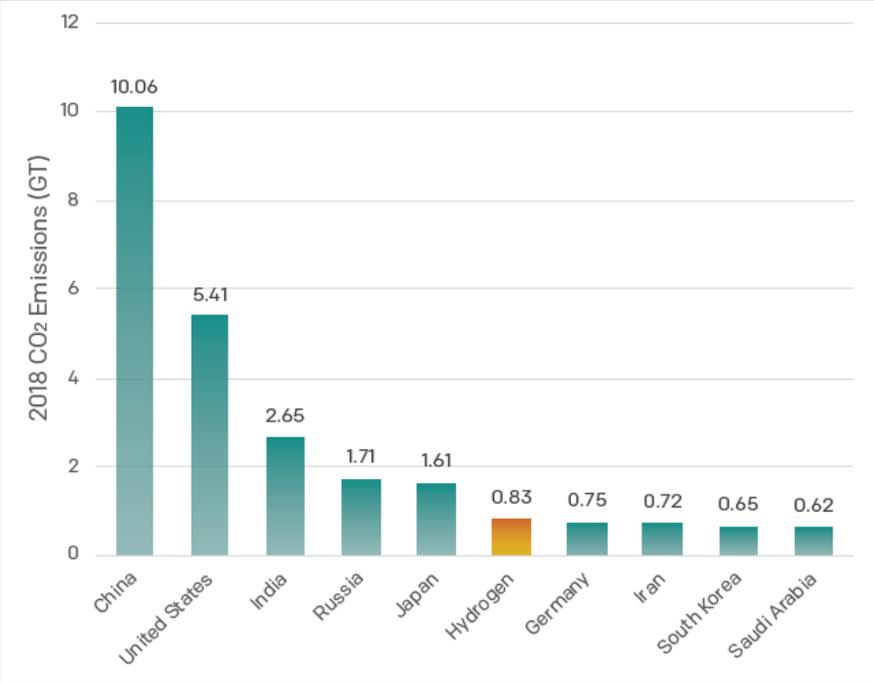
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Current Hydrogen Supply and Demand in the United States (Mt)

Source: EFI (2021)



Status Quo: Hydrogen's Climate and Health Threat



Reclaiming Hydrogen for a Renewable Future



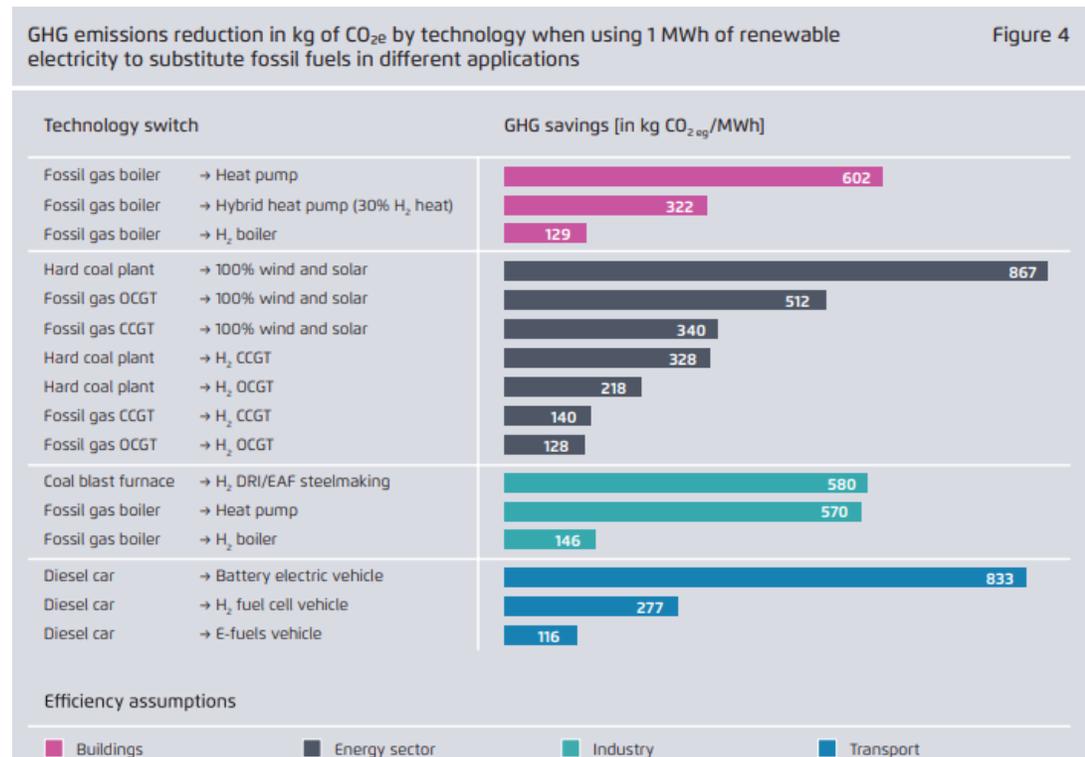
The bulk of hydrogen demand in the United States today is for use in crude oil refineries. The fossil fuel industry is the country's primary producer and consumer of hydrogen. Thomas Northcut / Getty Images

Overusing Hydrogen Could Swallow More Renewables to Displace Less Fossil Fuels...

“In the short to medium term, the use of limited renewables generation for indirect electrification stands in direct competition with its more efficient use for direct electrification...”

*...critical to prioritise for feedstock use in industry, especially where it can **replace highly carbon-intensive existing fossil-based hydrogen.**”*

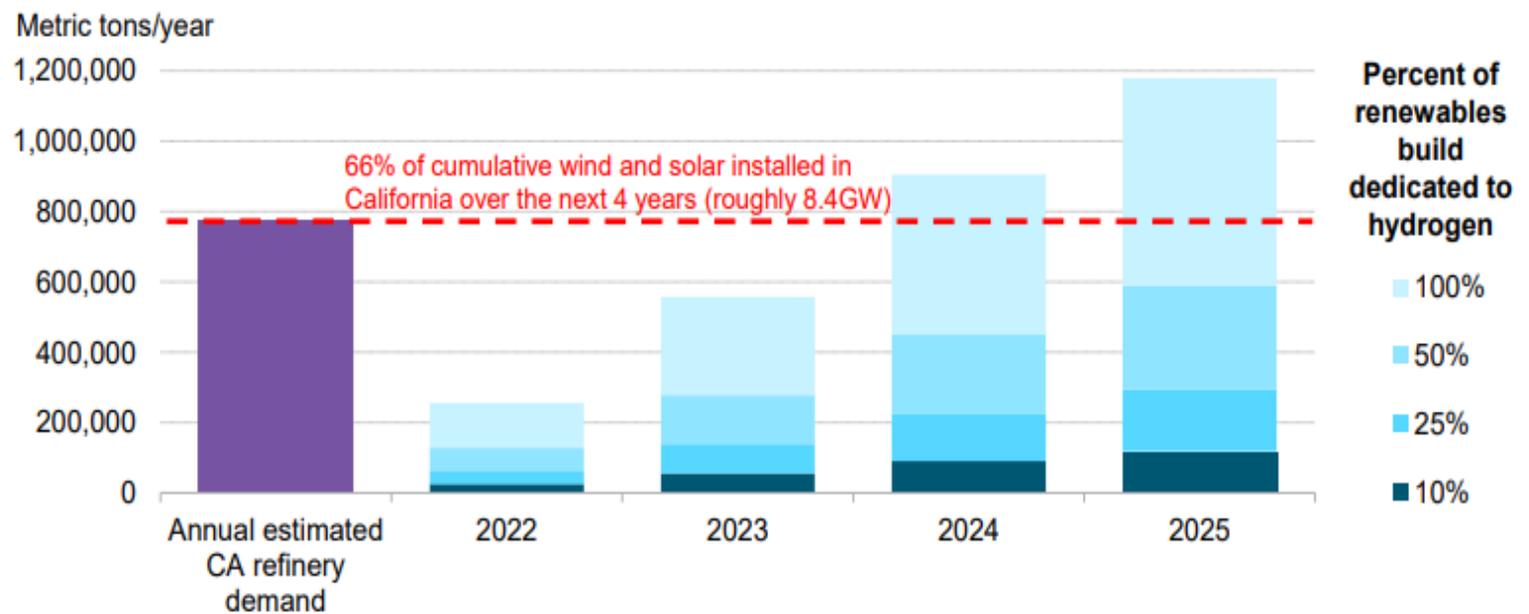
- Agora Energiewende, May 2023



Current H2 Demand vs. Projected Renewables Growth

California would have to dedicate a lot of the expected solar and wind to hydrogen

Potential hydrogen production from all expected solar and wind built in CA, 2022-2025



Source: BloombergNEF. Note: Assumed average hydrogen demand for PADD 5 refineries. This analysis assumes a 40% capacity factor for electrolysis system.

Source: Matthew Bravante, CEC Presentation, June 2020