EIGA

EUROPEAN INDUSTRIAL GASES ASSOCIATION

100 YEARS

Hydrogen: from promise to reality

Hydrogen plays a **key role** in Europe's efforts to decarbonise and mitigate climate change

It is central to reaching **net-zero emissions** as it can abate 80 gigatonnes of CO_2 by 2050 [1]

4x Represents 4 times bigger savings than taking all **petrol-powered cars** in the world off the road

Key success factors for large-scale deployment of hydrogen

Technology for hydrogen deployment must be first-rate

Since 1976, 208 hydrogen-related production, storage, handling and road accidents were recorded and analysed in the EIGA database. Of these, 21 occured in the last decade.

The highest standards of safety must be respected

Tens of millions of hydrogen heavy duty vehicle-fills across the world thanks to proven safe protocols. New market entries shall also systematically apply and adhere to the highest safety standards.

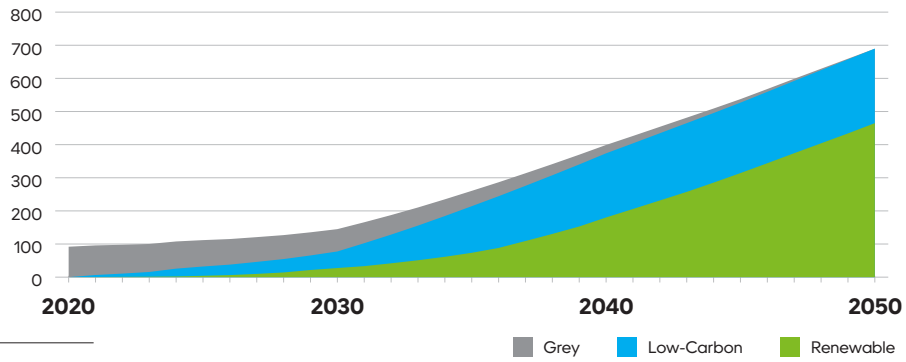
Legislation supports an ambitious roll-out of hydrogen

"In line with the policy scenarios that underpin the "Fit for 55" initiative, ..., renewable and low-carbon hydrogen... will gradually replace fossil natural gases and represent very significant shares of the gaseous fuels in the energy mix towards 2050."[2]

Low-carbon hydrogen will be the most cost-competitive mid-term solution

~30% of grey hydrogen **converted to clean** hydrogen in 2030

Hydrogen supply by production method (indicative) MT hydrogen p.a.[1]



[1] Hydrogen Council Report: Hydrogen for Net-Zero, November 2021

[2] EU Commission 'Q&A on the Hydrogen and Decarbonisation Gas Package'

List of EIGA members with a combined EU revenue exceeding € 0.5 billion and active in at least 5 EU countries

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