

Hethos, the hydrogen operating arm of **Beam Earth**, is solving the challenges associated with extracting naturally-occurring hydrogen; the cleanest, most cost-effective, lowest-carbon emitting form of hydrogen available today

Hethos within Beam Earth

Beam Earth is a clean technology-centric group that builds ESG best practices through capital markets innovation and disruptive technologies. Our business lines meet institutional investors´ needs that include real asset ownership, ESG requirements and attractive risk-adjusted returns.
Beam Earth is the shareholder and founder of Hethos.

Beam Earth´s Partners with a Unique Track Record



Stéphane Lamoine
CEO

Co-founder of Beam Earth. Formerly Chief Investment Officer at Société Générale Asset Management and a Consultant with Elliott Advisors



Marc Samuel
Chairman of the Board

Co-founder of Beam Earth and formerly CEO of Edmond de Rothschild Bank



Pierre Levin
CTO

Co-founder of Beam Earth. Expert in clean oil production enhancement technologies and geologist



Michael Hart
Board Member

With 20+ years' experience in pension fund consulting and alternative business development/strategy. Michael has held senior global roles at Amundi Alternative Investment Management and Aberdeen Asset Management



Georgina Rivera
CMO

15+ years' experience, expert in communicating complex concepts visually. 10 years Private Wealth Management with Deutsche Bank UHNW Relationship and Investment Management

Hethos is fully committed to best work practices.
We value the unique talents and abilities of our team of specialists, which contributes to a broader perspective and strengthen our strategies, leading to a more significant positive impact on society.

Strong demand and low-cost resource:
Decarbonized hydrogen is in strong demand and helium (that is produced as a co-product) is in short supply. Low costs of extraction provides outstanding risk-adjusted returns.

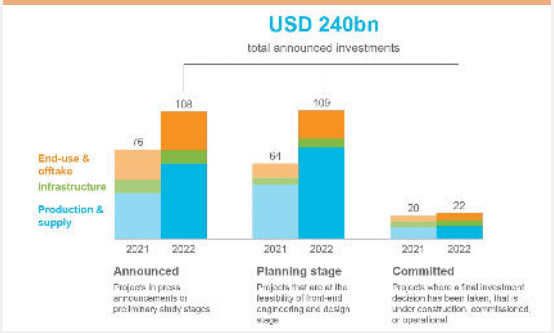
Hydrogen Market

Hydrogen production is already a very large market, approximately US$150 billion globally, and is expected to grow exponentially during the next 5 years. In the International Energy Agency's (IEA) Net Zero Emissions Scenario, global hydrogen use is predicted to expand 122% by 2030.

The proportion of low-carbon hydrogen is predicted to rise from 10% in 2020 to 70% in 2030[1], with the majority of this demand stemming from agri-farming, decarbonized electricity and heavy transport.

In the 2022 *Hydrogen Insights*[2] report, McKinsey and the Hydrogen Council state that there are currently 680 large-scale hydrogen project proposals globally with a total value of US$240 billion representing 160 additional projects since last years´ report. Since 2021 investments in America have grown at the fastest rate, with US$20 billion added in North America and US$34 billion in Latin America.

Direct hydrogen investments until 2030



Hydrogen Economy: Critical Pillar for Global Decarbonization

Naturally occurring reserves of renewable natural hydrogen (and associated naturally occurring helium) present a compelling investment case, not only to produce hydrogen in a far more cost-efficient process than other methods and with much lower greenhouse gases, but also addressing the supply shortage of helium, as well as supporting six crucial UN Sustainable Development Goals.

The rapid development of the hydrogen economy is accelerating the world's drive towards zero carbon and the urgent need to decarbonize the 'hard to reach' parts of global economies:

- **Power:** Independent studies by MJ Hudson[3] a leading ESG consultant conclude that renewable natural hydrogen is an energy source rather than an energy carrier, delivering 11 times more energy than needed in the production process.
- **Industry:** Hydrogen has a wide appeal to a diverse number of industries including agri-farming, fertilizer, transportation and local energy production industries, all of which are large solvent and importantly market specific, whilst also able to absorb all renewable natural hydrogen planned production in the next five years into the local markets.
- **Helium:** Extracted as a co-product of natural hydrogen production. The current global market for bulk liquid helium is estimated to be over US$2.7 billion[4] and given the current global shortage, helium is a sought-after commodity.

Hethos Opportunity

Hethos focuses on capturing the huge investment opportunity of the rapid rise of the hydrogen economy by targeting established joint venture partners, through our extensive network, to deliver strong risk-adjusted returns uncorrelated to the equity and fixed income markets whilst minimizing development risk. Hethos´ strategy is to leverage its unique field proven experience in oil and gas extraction using sustainable clean techniques.

Sources: [1] *"Net Zero by 2050 A Roadmap for the Global Energy Sector"*, May 2021. IEA
[2] *"Hydrogen Insights 2022"* Report, September 2022. Hydrogen Council, McKinsey & Company
[3] MJ Hudson White hydrogen carbon footprint assessment, January 2022 Report for TEH/BEAM
[4] https://www.prnewswire.com/news-releases/global-helium-market-to-reach-2-8-billion-by-2026--301507347.html



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