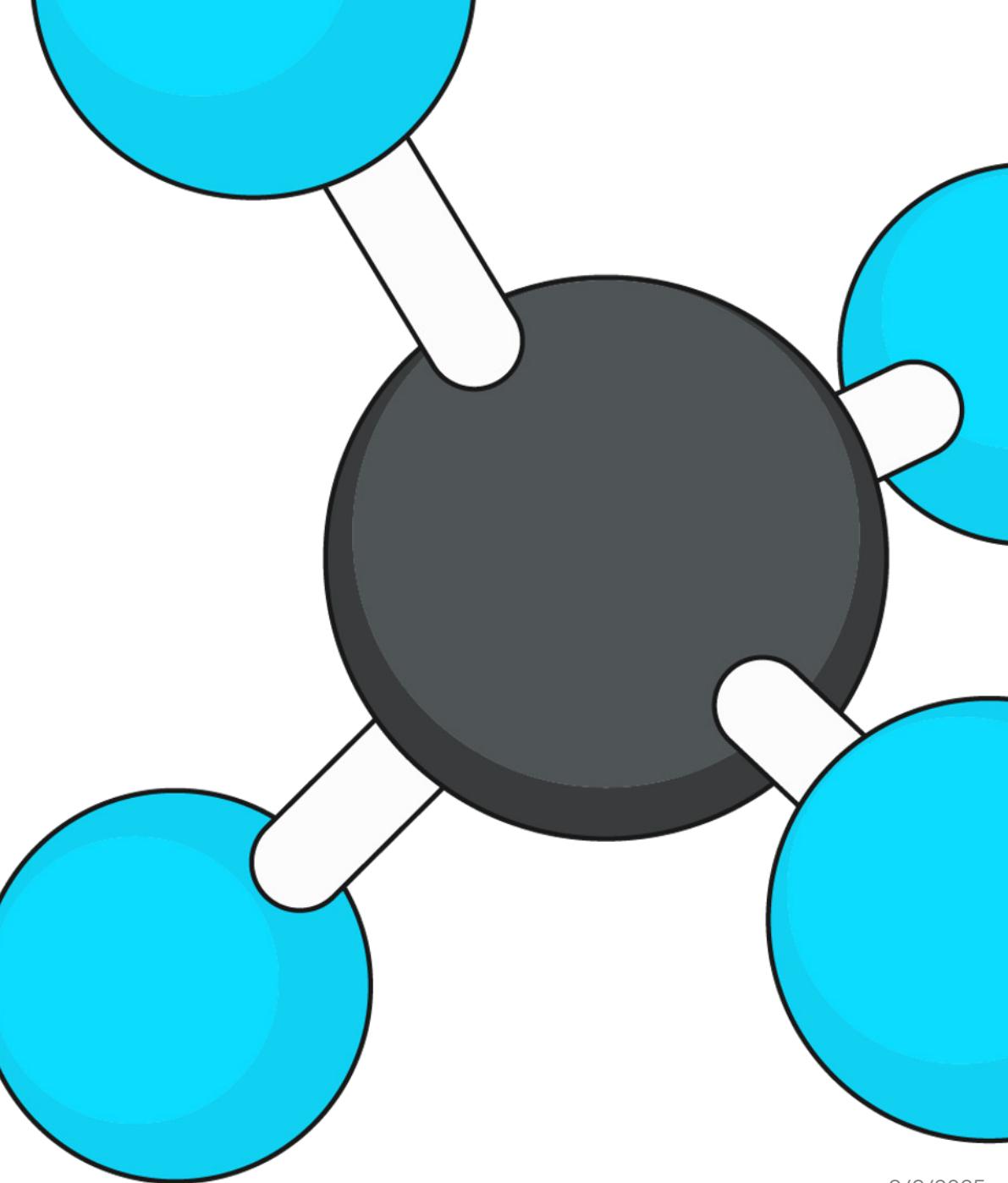


# hycamite

Company introduction  
August 2025



## Company

A deeptech startup producing low-carbon hydrogen and high-quality carbon

- Industrial-scale zero emission hydrogen production
- Solid, high-value carbon products including battery-grade graphite
- Technology based on over 20 years of research at the University of Oulu
- Approximately 70 hycamates with different nationalities
- International, strategic investors
- Global coverage of strategic partners
- Industrial-scale demonstration plant capacity 2 kt hydrogen annually

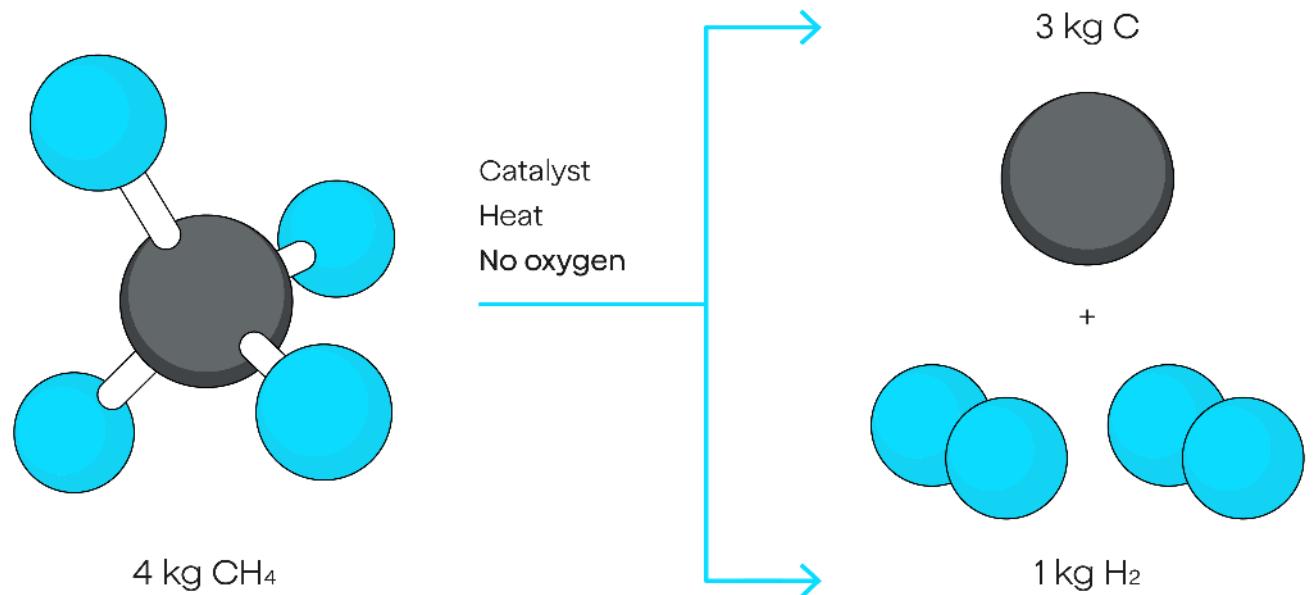


## Technology

Methane splitting is one of the most promising technologies for producing low-carbon hydrogen

### Disruptive technology

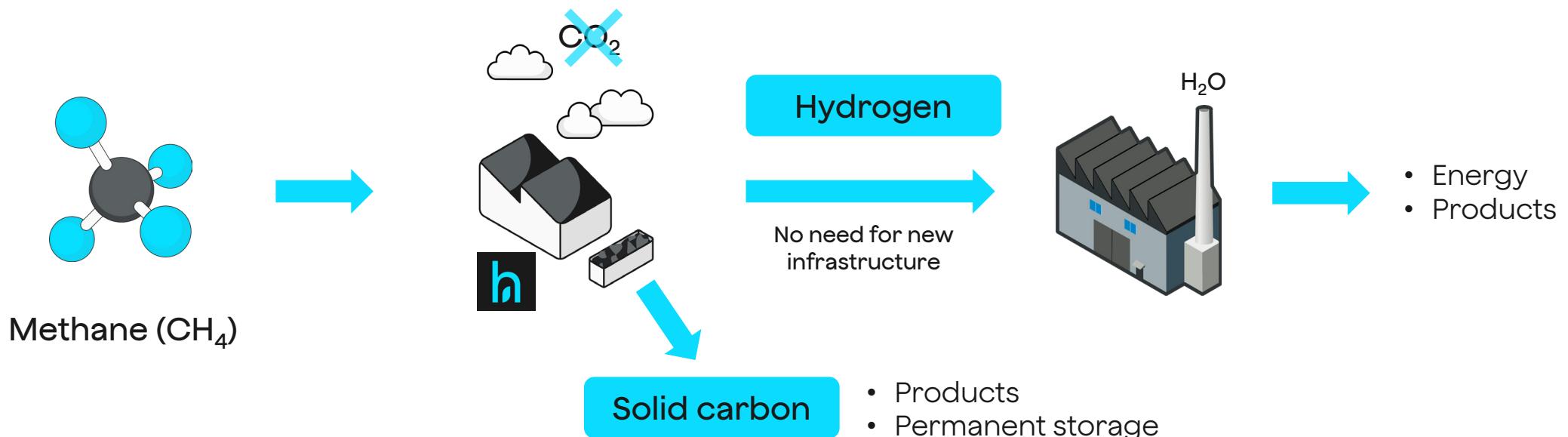
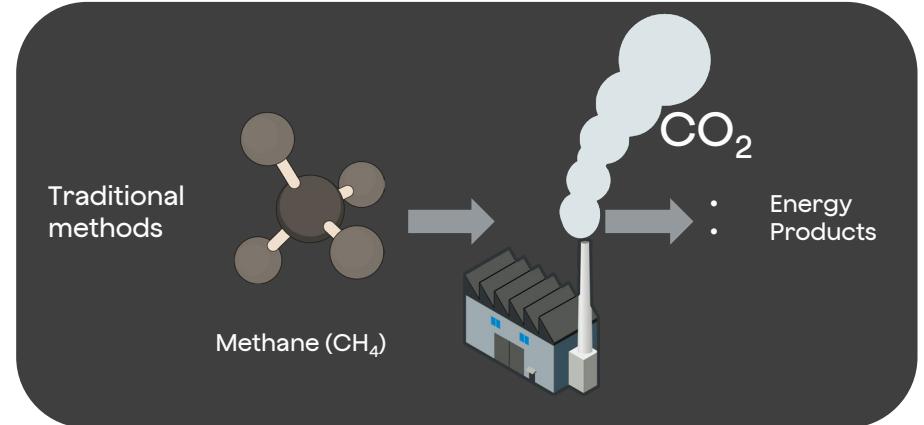
- Hycamite's proprietary technology: A thermo-catalytic process for splitting methane
- Splitting methane into low-carbon hydrogen and solid carbon
- 5 different catalyst families that significantly improve energy efficiency and increase the quality of the carbon
- No carbon dioxide emissions from the process



## Our solution

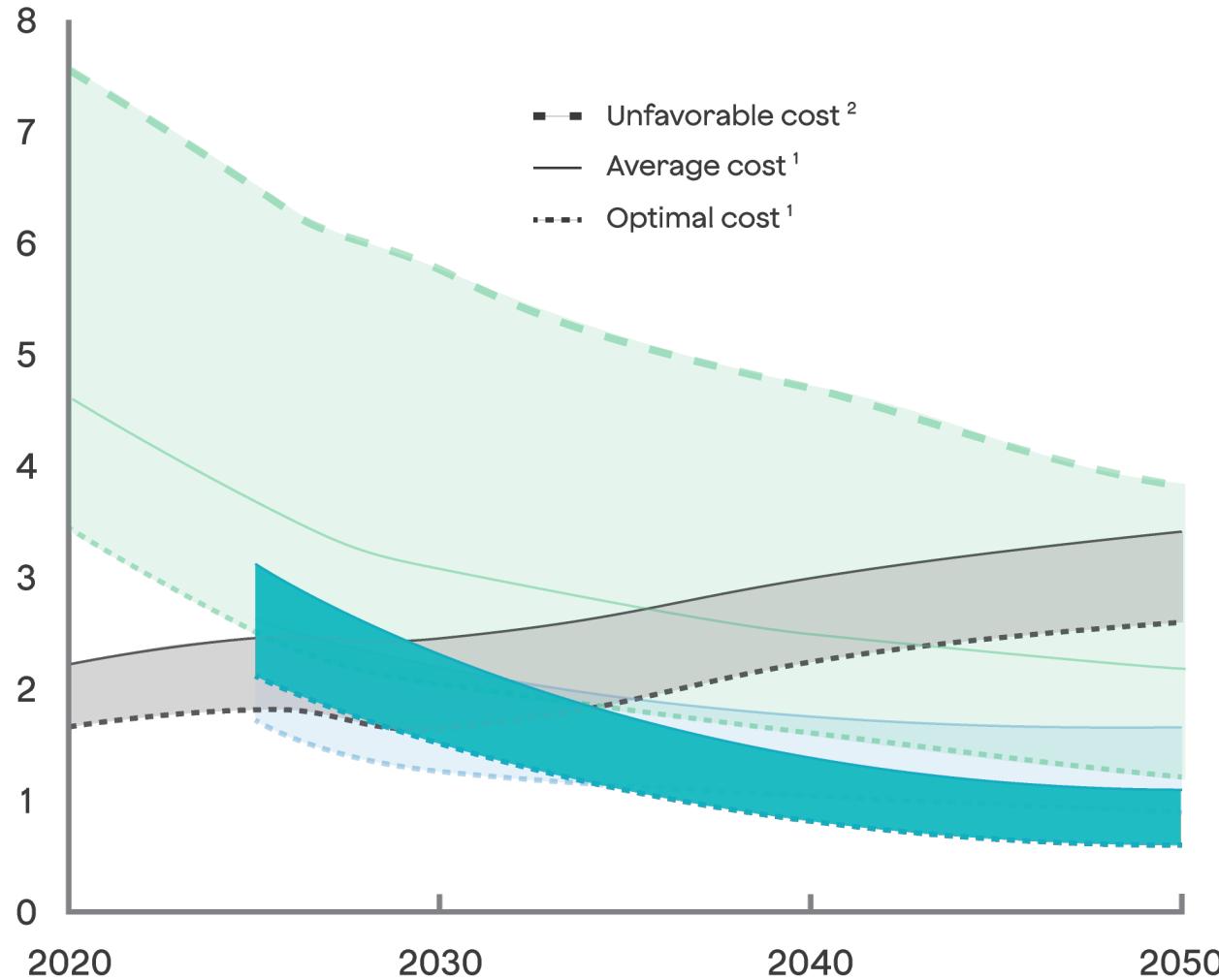
Rapid and scalable decarbonization of industry

- Plug-and-play solution to decarbonize industries that use natural gas
- Utilizes existing infrastructure and can benefit from the waste heat of the customer



## Benefit 1: Price

Competitive pricing due to two revenue streams, hydrogen and solid carbon



- No need for the end customer to pay a premium on low-carbon hydrogen

Gray hydrogen (SMR)

Green hydrogen (Electrolysis)

Blue hydrogen (SMR + CCS)

Hycamite hydrogen (TCD)

Sources:

<sup>1</sup>**McKinsey** Hydrogen & Derivatives Flows Model, October 2022

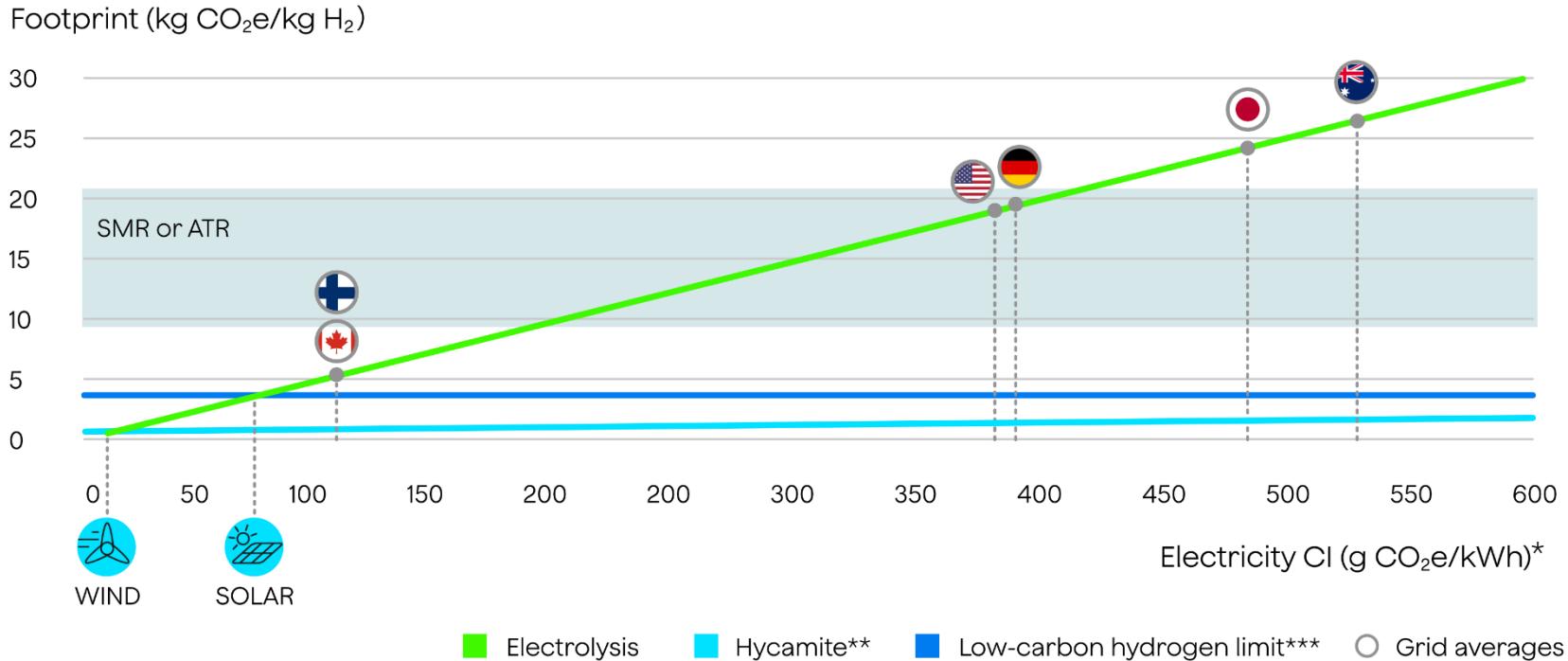
<https://hydrogencouncil.com/wp-content/uploads/2022/10/Global-Hydrogen-Flows.pdf>

<sup>2</sup>**World Energy Council**, Hydrogen demand and cost dynamics, December 2021

<https://www.pwccn.com/en/industries/energy-utilities-and-mining/publications/hydrogen-demand-cost-dynamics-dec2021.html>

## Benefit 2: Life cycle emissions

Ultra low-carbon products due to no CO<sub>2</sub> emissions from the process



\* [ourworldindata.org/grapher/carbon-intensity-electricity](http://ourworldindata.org/grapher/carbon-intensity-electricity)

\*\* Hycamite's emissions are based on the EU LNG mix (upstream) and the shown electricity CI

\*\*\* EU renewable H<sub>2</sub> and Japan: 3.4 kg CO<sub>2</sub>e/kg H<sub>2</sub>, U.S.A. and Canada: 4 kg CO<sub>2</sub>e/kg H<sub>2</sub>

**ATR:** autothermal reforming

**SMR:** steam methane reforming

- In comparison, our hydrogen typically has the smallest carbon footprint – even with natural gas as feedstock
- Competing technologies require more power – this leads to a growing carbon dioxide footprint

## Benefit 3: Products

Balanced carbon product portfolio

Batteries



Concrete



Steel



Polymers



Supercapacitors



Tires

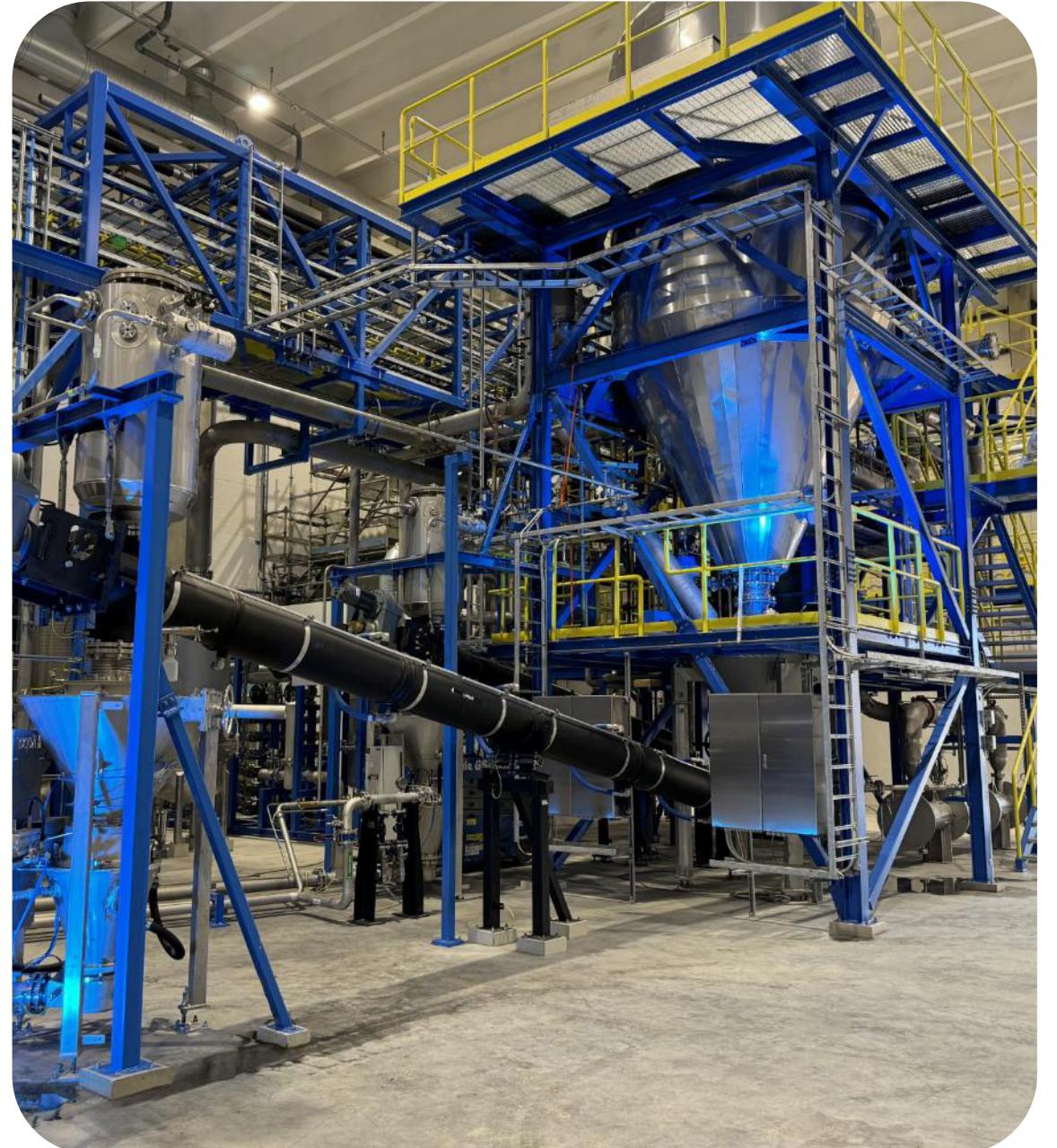


- Customized carbon products and production volumes according to the customer's needs
- A wide range of carbon products for various applications, such as the battery industry, concrete and cement industry, steel industry, tire industry or conductive polymers
- Hycamite is the only company able to produce large volumes of battery-grade graphite from methane splitting on an industrial scale

## Status quo

### Entering industrial scale

- Over 4 years of pilot plant operations
- We are now commissioning our first industrial scale plant, the Customer Sample Facility (CSF)
- CSF is the largest methane-splitting plant in Europe
- Technology proof-of-concept on an industrial scale
- Production of large-volume carbon samples to customers



## Thank you!

All our contact details can be found on  
our website [hycamite.com](http://hycamite.com)

Email addresses  
[firstname.lastname@hycamite.com](mailto:firstname.lastname@hycamite.com)



**Laura Rahikka**  
CEO, Founder



**Matti Malkamäki**  
Chair, Founder