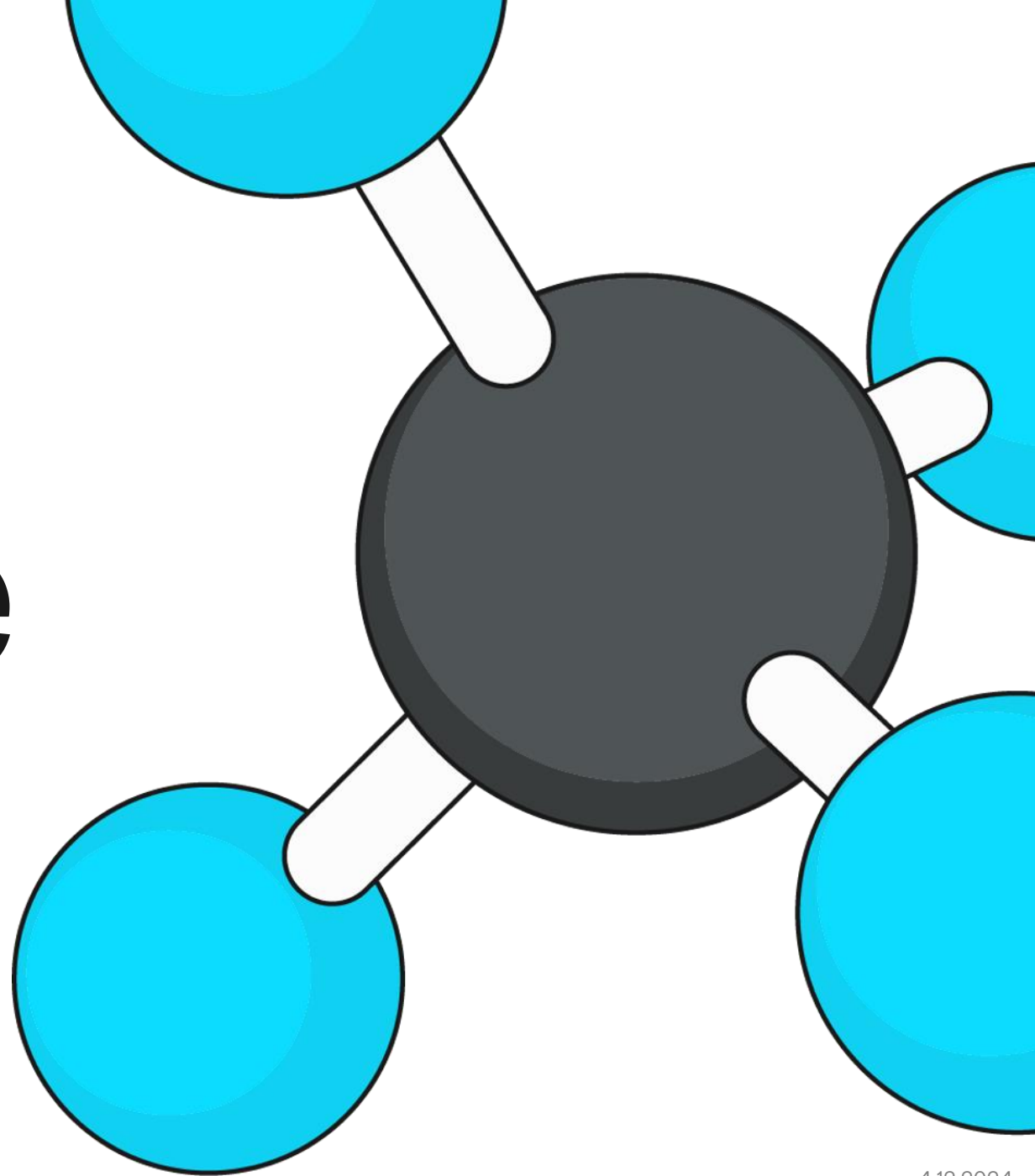


hycamite

The Role of Gas Grids

Matti Malkamäki

Brussels, 2 December 2024



We produce low-carbon hydrogen and high-quality carbon products by splitting methane

What sets Hycamite apart?

- Compared to steam methane reforming (SMR), we produce no CO₂ emissions.
- A highly energy-efficient process, utilizing only 13% of the energy needed in electrolysis.
- Carbon is captured in solid form and can be used as high-quality carbon products such as battery-grade graphite.

Benefit 1: Price

Competitive pricing due to two revenue streams, hydrogen and solid carbon. The end user doesn't have to pay a premium on low-carbon hydrogen.

Benefit 2: Life cycle emissions

Our ultra-low carbon hydrogen typically has the smallest carbon footprint, even with natural gas as feedstock, compared to other technologies.

Benefit 3: Products

Customized carbon products and production volumes according to the client's needs. We produce a wide range of carbon products for various applications.

Batteries



Concrete



Steel



Polymers

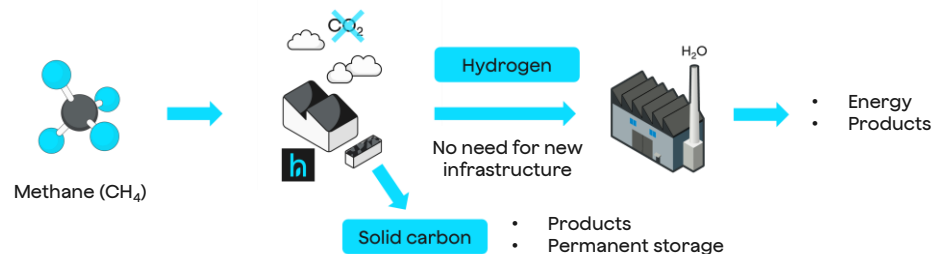


Supercapacitors



Our solution

A plug-and-play solution to decarbonize industries that use natural gas, utilizing existing infrastructure and can benefit from the waste heat of the customer.



Entering industrial scale

We are now commissioning our Customer Sample Facility (CSF), which is the largest methane-splitting plant in Europe. Once fully operational, the plant will produce 2 000 tons of low-carbon hydrogen and 6 000 tons of high-value carbon annually. The plant's annual decarbonization capacity is up to 18 000 tons of CO₂.



2 kt

CSF's annual hydrogen production capacity

6 kt

CSF's annual carbon production capacity

60+

Employees in the organization

20+

Years of research behind our technology

Contact us:

[Hycamite.com](https://www.hycamite.com)

Hycamite

The H2 projects and the planned infrastructure in Finland

