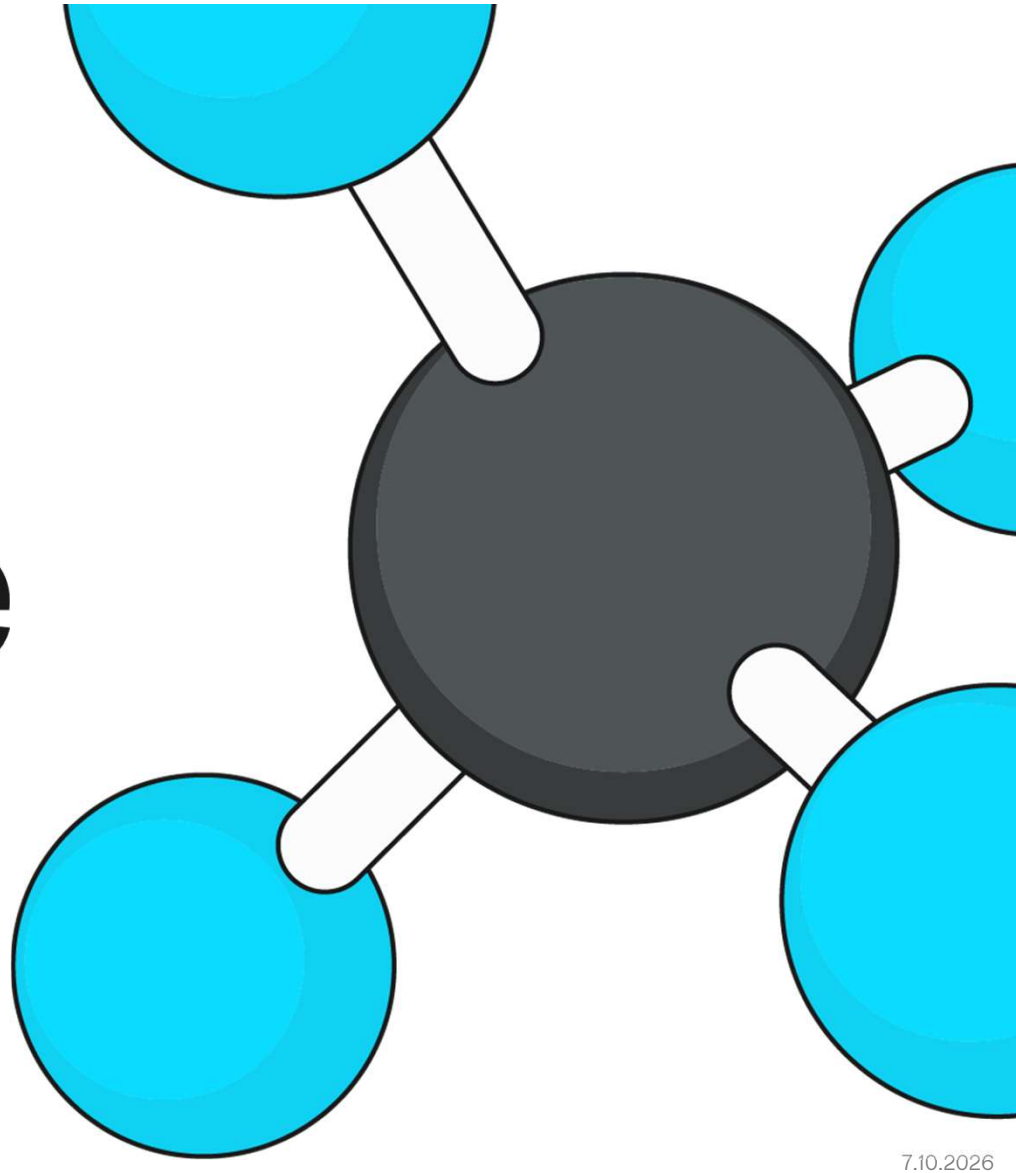
hycamite

Company introduction

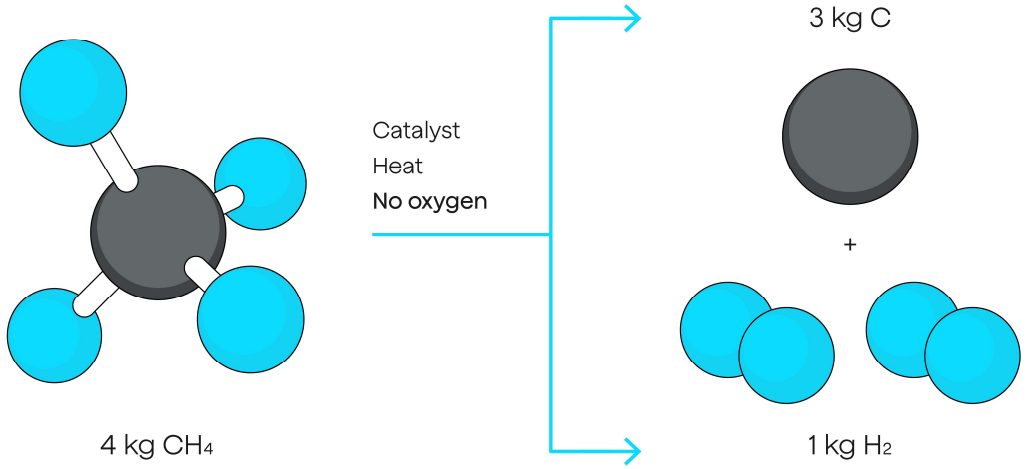
06.10.2026



hycamite

Critical materials and low-carbon hydrogen by splitting methane

- Solid, high-value carbon products, including battery-grade graphite
- EU's CRMA Status for graphite production
- Industrial-scale zero-emission hydrogen production
- Technology based on over 20 years of research at the University of Oulu
- 60+ team members with different nationalities.
- International, strategic investors
  - Sojitz, MOL Plus (Mitsui), OMV, OMV Petrom, CMA CGM





Disruptive technology

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

hycamite

Largest Methane Splitting Plant in Europe and Facilities to Support Growth

Extensively Tested Technology at Pilot Scale

- Operational since September 2021
- 20 000+ hours of successful operations
- 1 700+ lab-scale trials
- 160+ pilot reactor trials
- 6 000+ analyses of products and catalysts since 2024
- Largest customer samples 100+ kg carbon
- Successfully tested catalysts to scale up into rotary kiln and fluidized bed reactor technologies in plant-scale





Operational Industrial Scale Flagship Decarbonization Facility

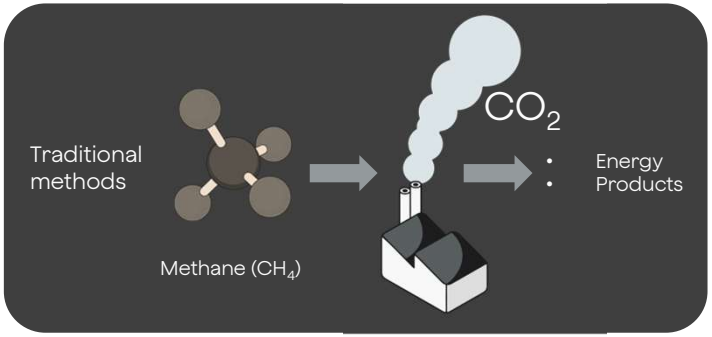
- Production capacity of 6 ktpa of high-value solid carbon and 2 ktpa of hydrogen
- Equipped with solutions to further process solid carbon into customer-specific products
- Modular site is built with standard, commercially available third-party equipment
- Fully scaled production lines for both Rotary Kiln and Fluidized Bed Reactor technologies
- Technical concept enables the scaling to substantially larger sites and a foundation for 30+ ktpa carbon facilities
- ABB automation system for process control and energy consumption optimization
- Strong positive customer feedback across multiple industrial applications regarding the quality of the carbon



hycamite

Rapid and scalable decarbonization of industry

Traditional way to produce energy from natural gas

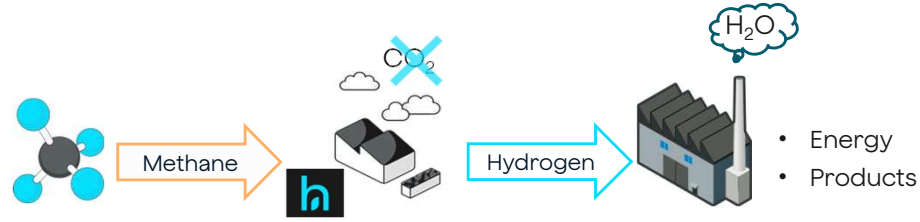


Examples of industries

- Chemicals
- Refineries
- Industrial heat, Energy
- Steel
- Shipping, aviation

Hycamite solution

Methane Feedstock → Methane Splitting → Industrial customers



Input

- Methane as a major feedstock
- Natural gas, biomethane, industrial side streams
- Use of existing infrastructure

Solid carbon

Selected carbon applications:

- Batteries (EV, ESS)
- Tires
- Polymers
- Steel
- Concrete
- Advanced materials

hycamite

Carbon products

Balanced carbon product portfolio

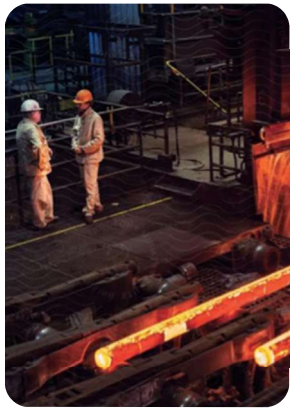
Batteries



Concrete



Steel



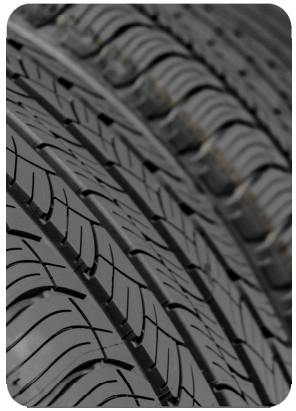
Polymers



Supercapacitors



Tires

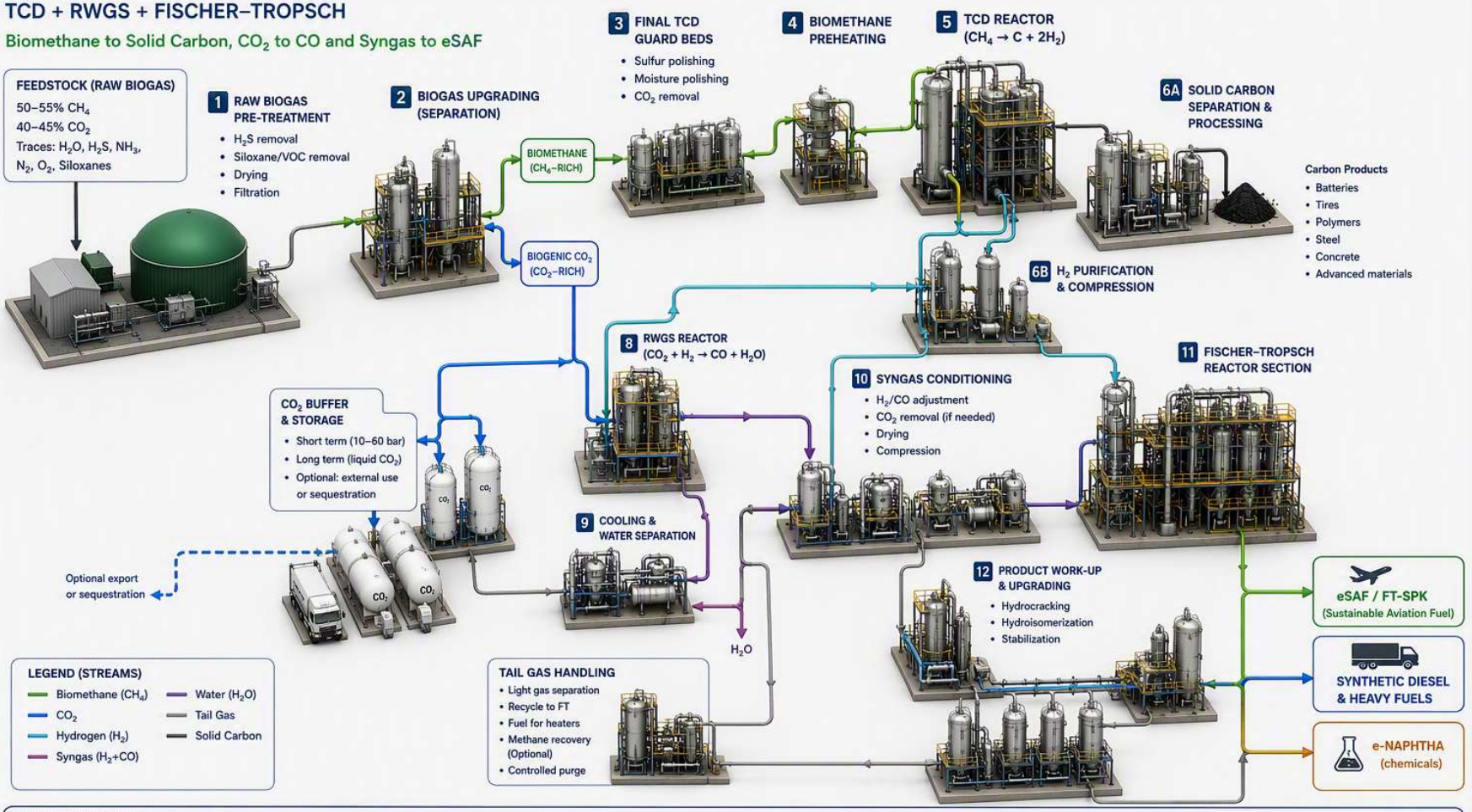


- Customized carbon products and production volumes according to the client's needs
- A wide range of carbon products for various applications, such as the battery industry, concrete and cement industry, steel industry, tire industry or conductive polymers
- Hycamite is the only company able to produce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

INTEGRATED BIOGAS TO eSAF PROCESS

TCD + RWGS + FISCHER–TROPSCH

Biomethane to Solid Carbon, CO_2 to CO and Syngas to eSAF



DESIGN INFORMATION

Process Title:	Integrated Biogas to eSAF Process (TCD + RWGS + Fischer–Tropsch)
Concept Basis:	Biomethane from biogas (50–55% CH_4) Biogenic CO_2 from biogas (40–45% CO_2)
Scope:	Conceptual Process Flow Diagram (3D Line Design)
Note:	For study and discussion purposes only

DESIGNED BY

Davide Bergna

Process Concept & Integration

AI ASSISTED DESIGN

AI assistance for process design, visualization and documentation.

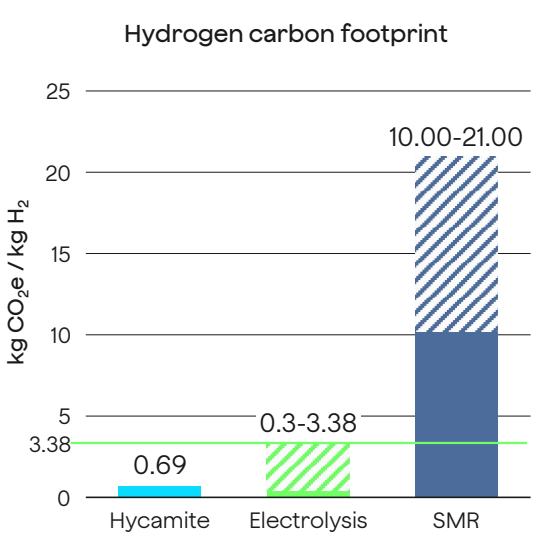
DATE	9 June 2025
REVISION	Rev. 1.0
FILE	Biogas_TCD_RWGS_FT_eSAF_PFD_3D
STATUS	Concept

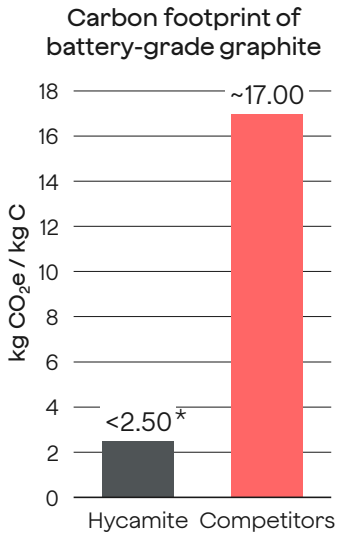
© 2025 All rights reserved

hycamite

The world's leading pioneer in methane splitting

- Nearly five years of pilot plant operations
- Commissioning of the Customer Sample Facility (CSF) has begun
- CSF is the largest methane-splitting plant in Europe
    - Verification of technology on an industrial scale
- Production of industrial-scale carbon samples for customers
- Preparing for the first phase of CRMA





* Target based on tests



hycamite

Industrial value conversion platform instead of just hydrogen or cleantech company



Solid carbon products

- Two main product lines: **carbon nanofibers** and **graphitic carbon**.
- **Carbon nanofibers** enable the use of carbon in permanent sequestration applications like concrete & steel alloying. This enables the use of hydrogen as low-carbon hydrogen per LCH DA.
- **Graphite** is the most critical resource in batteries, nuclear power, and multiple aerospace and defense applications.
- Low carbon footprint, short supply chains, and enhanced product performance.



Hydrogen

- Affordable, low-carbon hydrogen to decarbonize various industries
- Decarbonization of peak power plants, power generation for data centers
- Scalable technology, up to hundreds of ktpa of hydrogen per plant
- Technology integration with CCGT plants, together with gas turbine OEM

hycamite

CRMA Project phases and schedule

2030	**CRMA** Project stage 2 + n	6*25 kt/a hydrogen 450 kt/a carbon 200 kt/a graphite
2027	**CRMA** Project stage 1	Carbon processing and graphitization plant 3 kt/a
2025	**Current methane-splitting plant project** + small scale additional investments	**Current methane-splitting plant as is** "Basic carbon treatment"



INTERNAL

hycamite

Thank you!