



230209 Ilmastorahasto

Hycamite produces clean & affordable hydrogen and solid high-value carbon



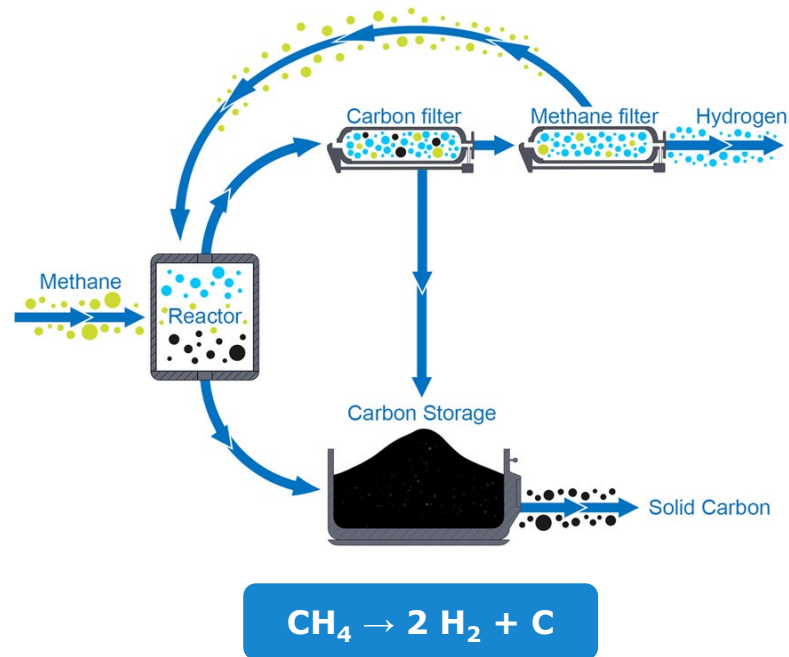
- Capturing carbon from methane in solid form
 - Clean hydrogen
 - Solid, high-value TCD carbon
- Deep-tech startup, now starting to build the industrial-scale demonstration facility
- Production of hydrogen without emissions and with the lowest energy consumption



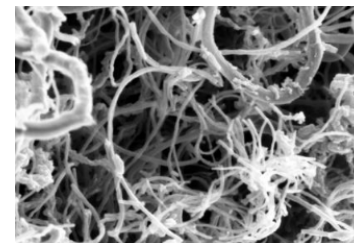
Biogas

Natural gas

Industrial side streams



H₂



Decarbonising Industry – some examples



Hydrogen to the industry

Natural gas use in the industry
500 Mt/a

Grey hydrogen production
~90 Mt/a
~1 Bn t CO₂/a

No need for infrastructure & low need for electricity

Solid carbon with a small CO₂ footprint for industrial applications

Now

Graphite emissions
5 kg CO₂/kg

< 1 kg CO₂/kg
(natural gas)

-5 kg CO₂/kg
(biogas)



Average 66 kg carbon in an EV

330 kg CO₂ per battery

66 kg CO₂ per battery

-330 kg CO₂ per battery



- 264 kg

- 660 kg



Industrial scale demonstration plant – the Customer Sample Facility



Key figures

Clean H₂ and solid carbon production

2 ktn of hydrogen & 6 ktn of solid carbon production capacity

1/2024 operational

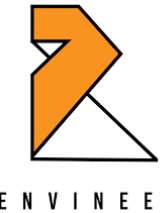
27 400 tn CO₂ p.a. emission reductions

28 M€ CAPEX

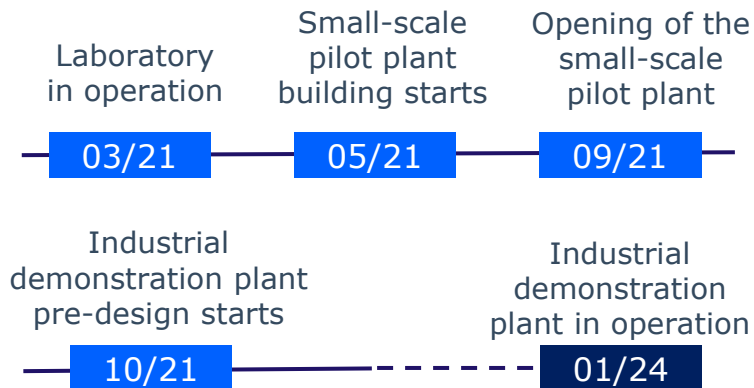
Location



Strategic partners



Timetable



Contact us for more information



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