

240214 Northern Power Oulu

HYCAMITE - WE DECARBONIZE INDUSTRY





- Industrial-scale low-carbon hydrogen production
- Solid, high-value carbon products
- Technology based on over 20 years of research at the University of Oulu
- More than 50 hycamates
- International, strategic investors
- Global coverage of strategic partners
- Industrial-scale demonstration plant capacity 2 <u>ktn</u> hydrogen per annum









KEY BENEFITS OF THE TECHNOLOGY



Benefits

- The high-value carbon product serves as a secondary revenue stream
- The plants can be built next to the hydrogen customer
 - No need for additional infrastructure
 - $(H_2, CO_2, power)$
 - Enables the use of waste heat from the customer
 - Easier permitting process
- Scalability
 - $\circ~$ Even up to 100's of kton hydrogen per annum
- Energy efficient process
 - Only 1/8th of the energy the electrolyzers need to produce the same amount of hydrogen
 - Approximately half of the energy needed as heat
- Possibility to reach negative emissions via the use of bio-feedstock

CUSTOMER SAMPLE FACILITY

2 kt of H₂ & 6kt of solid carbon production capacity

18 kt CO₂ p.a. emission reductions (compared to SMR) **2024** Operational

Three different reactors for testing 2 industrial 1 marine

THE REAL

Kokkola, Finland

Partners



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EFFECT OF THE CARBON INTENSITY OF ELECTRICITY



Thank you!

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Contact us



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