



Verso Energy

Oulu Project - February 13th 2025

About Verso Energy – Main activities



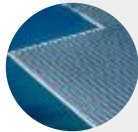
PV power plants



GROUND-MOUNTED SOLAR



AGRIVOLTAICS



FLOATING SOLAR



Battery Energy Storage Systems



STANDALONE BATTERIES

Grid-connected storage systems to support the power system



HYBRID BATTERIES

Storage systems hybridized with photovoltaic production



VERSO FLEX SOLUTION

Installation of batteries for the network and the industrial sector.



Industrial decarbonization facilities



INDUSTRIAL H2 PROJECTS

Mid and large scale plants producing hydrogen for industrial consumption



SYNTHETIC FUELS

Production of synthetic fuels from electrolytic H2 and biogenic CO2 for aviation and maritime decarbonization



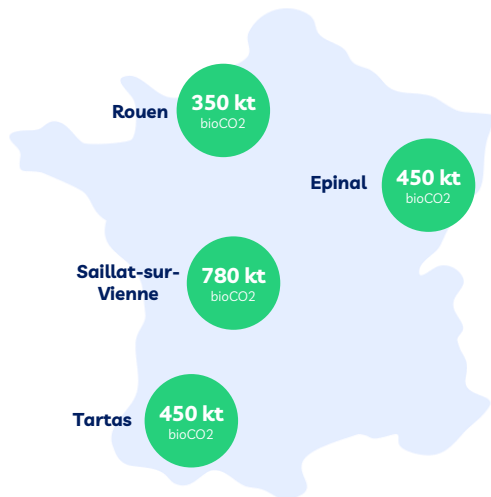
BECCS

Capture of biogenic CO2 on industrial sites for export and geological storage generating negative emissions

Verso Energy's development in France and abroad



- ✓ 4 e-SAF projects : 324 kt/y
- ✓ PV plants pipeline > 4,1 GW



In France, projects are secured :

- ✓ Exclusive MoU on CO₂ valorization
- ✓ Land lease agreement is signed
- ✓ Electrical capacity is booked
- ✓ Water availability is verified



- ✓ 2 industrial sites secured in strategic ports

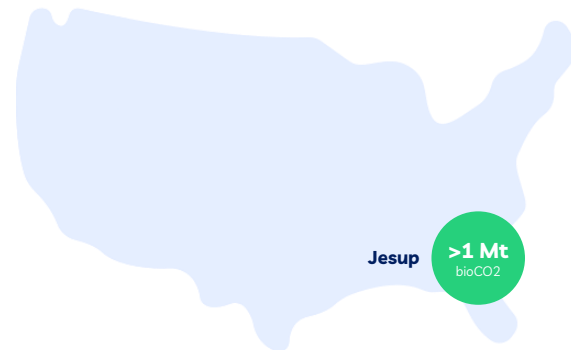


In Finland, projects are almost secured :

- ❑ Exclusive MoU on CO₂ valorization under discussion
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- ✓ Partnership with RYAM
- ✓ Early prospection in other states



In the USA, sites are under validation :

- ❑ Biogenic CO₂ exclusivity
- ❑ 30-hectare industrial land
- ❑ Electrical capacity available
- ❑ Water availability

Verso Energy's development in France and abroad



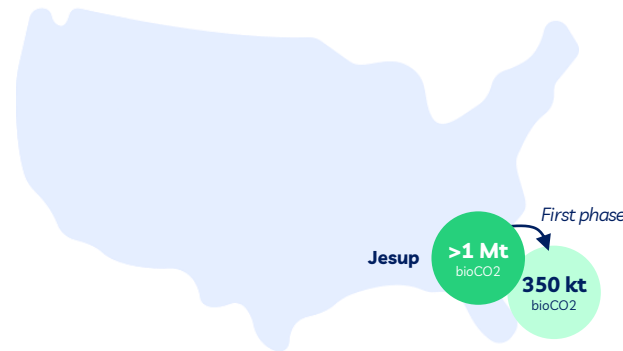
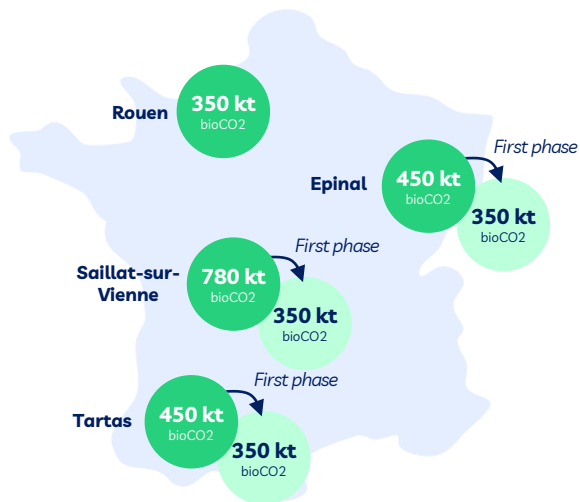
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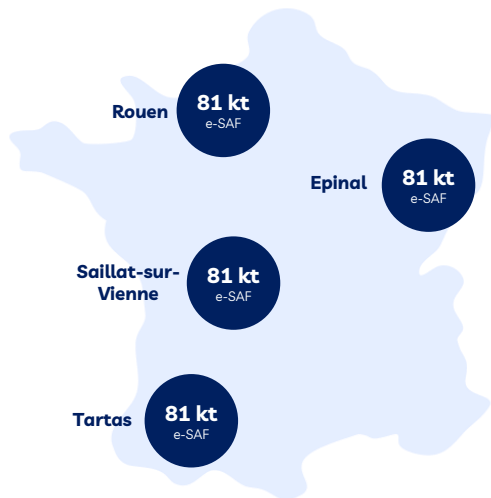
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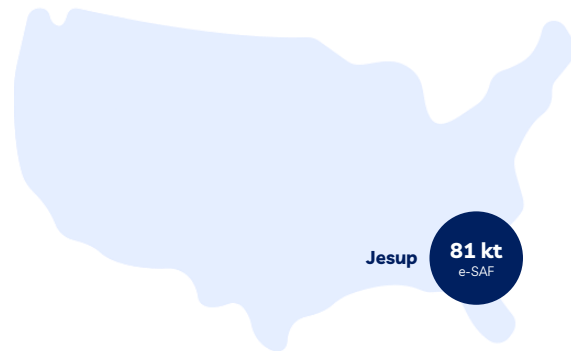


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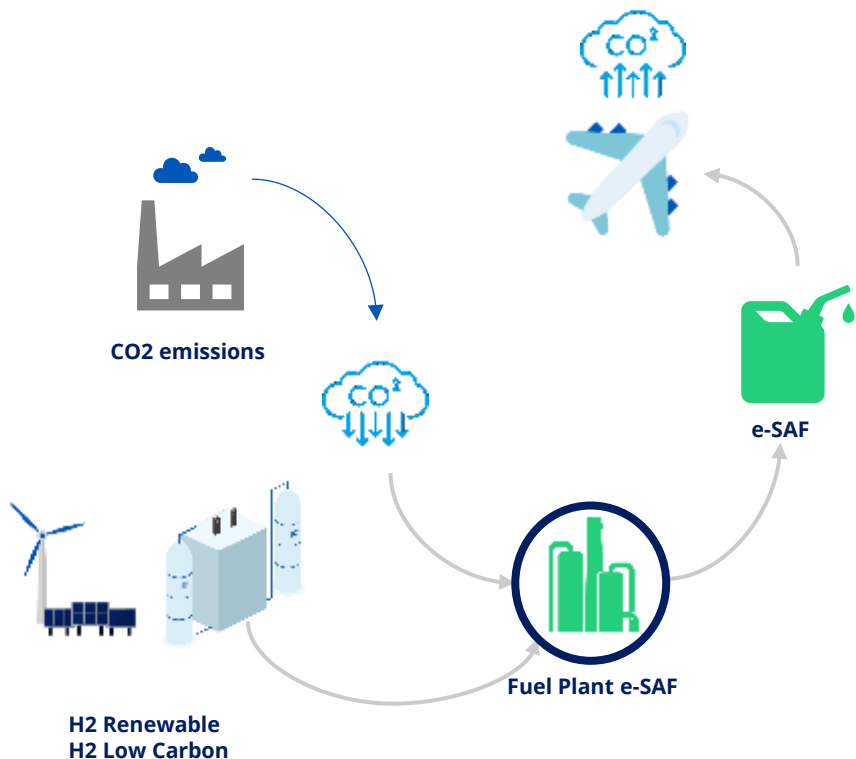
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BIOGENIC CO₂ : A valuable resource in a net-zero economy

01

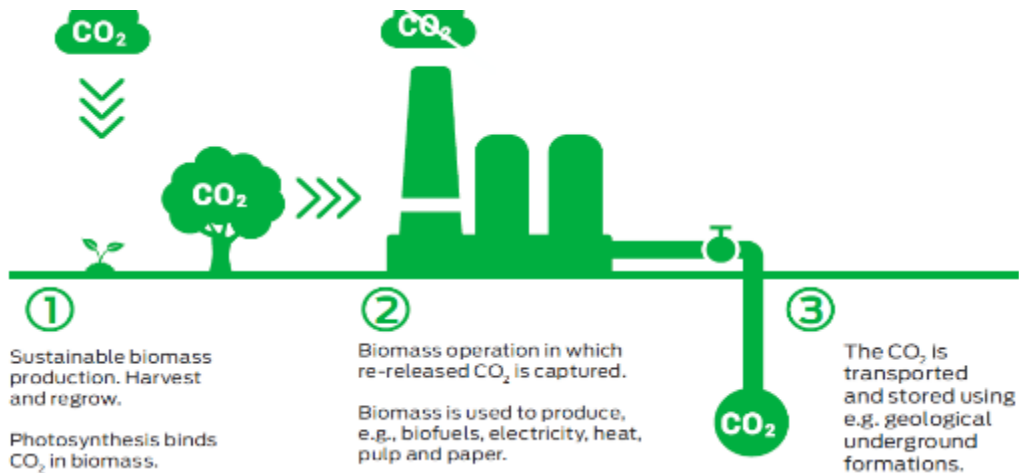
Biogenic CO₂ is a valuable input for long term e-SAF production and aviation direct decarbonization



CO₂ sources authorized for e-fuels production (RED 2)

| 2023 - 2040 | 2041 - |
|---|---|
| <ul style="list-style-type: none">✓ Fossil CO₂✓ BioCO₂✓ DAC | <ul style="list-style-type: none">✓ BioCO₂✓ DAC |

Biogenic CO₂ Capture and storage produces negative CO₂ emissions

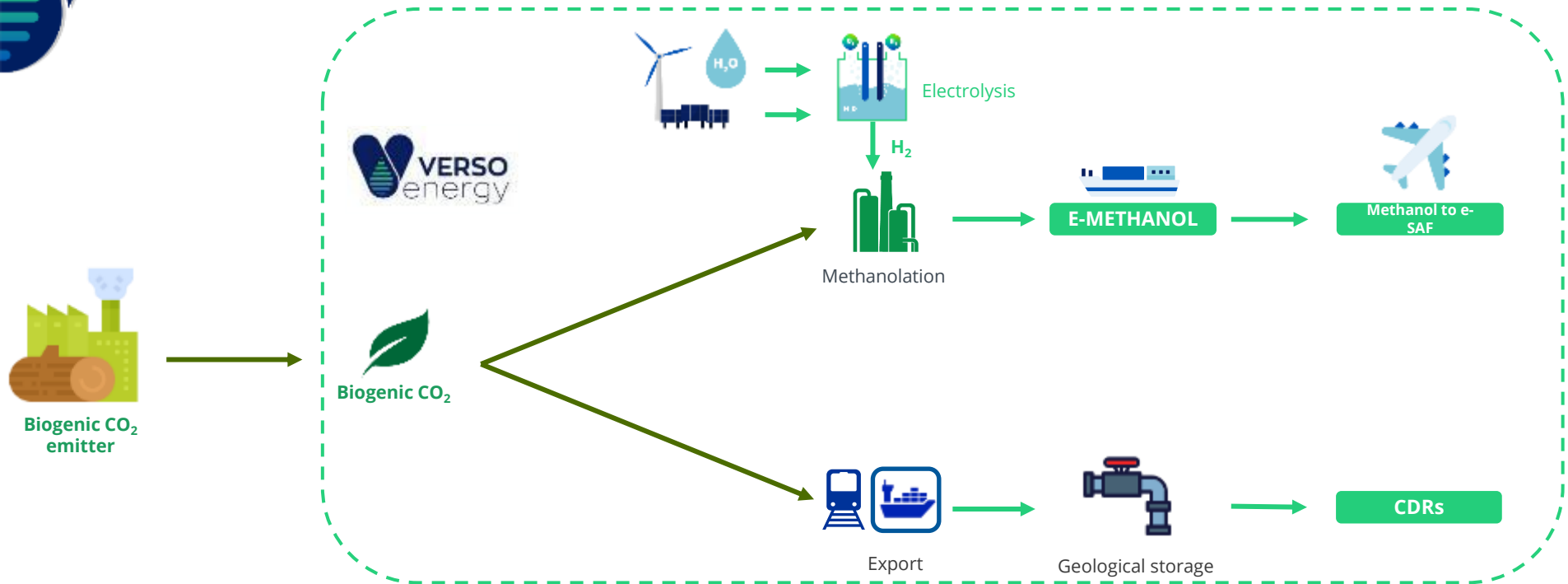


Emissions balance (per tonne of CO₂)

| | |
|---------------------------------------|-----------|
| Photosynthesis | -1 |
| Biomass use | +1 |
| CO ₂ transport and storage | -1 |
| Balance | -1 |

Negative emissions can be valued on the Voluntary Carbon Market, through sale of Carbon Dioxide Removal certificates (*CRDs*)

Biogenic CO₂ valorization by Verso Energy

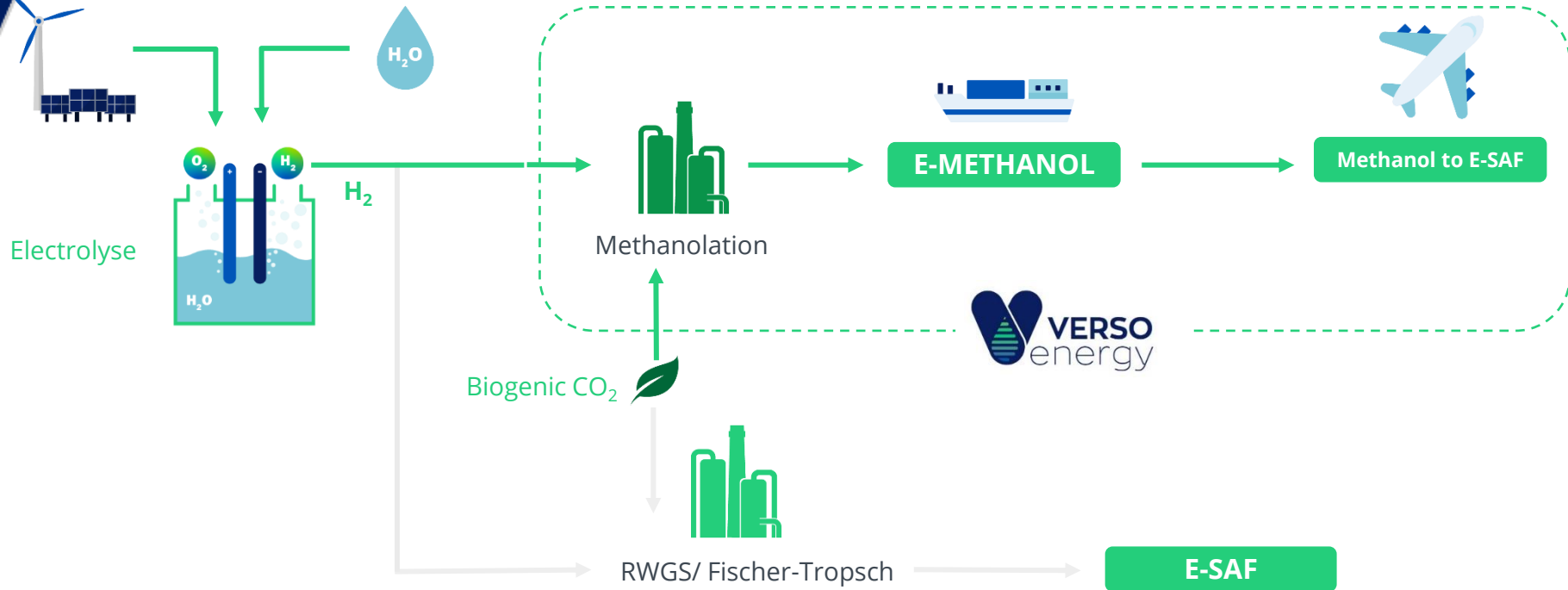




**Verso Energy
e-SAF projects**

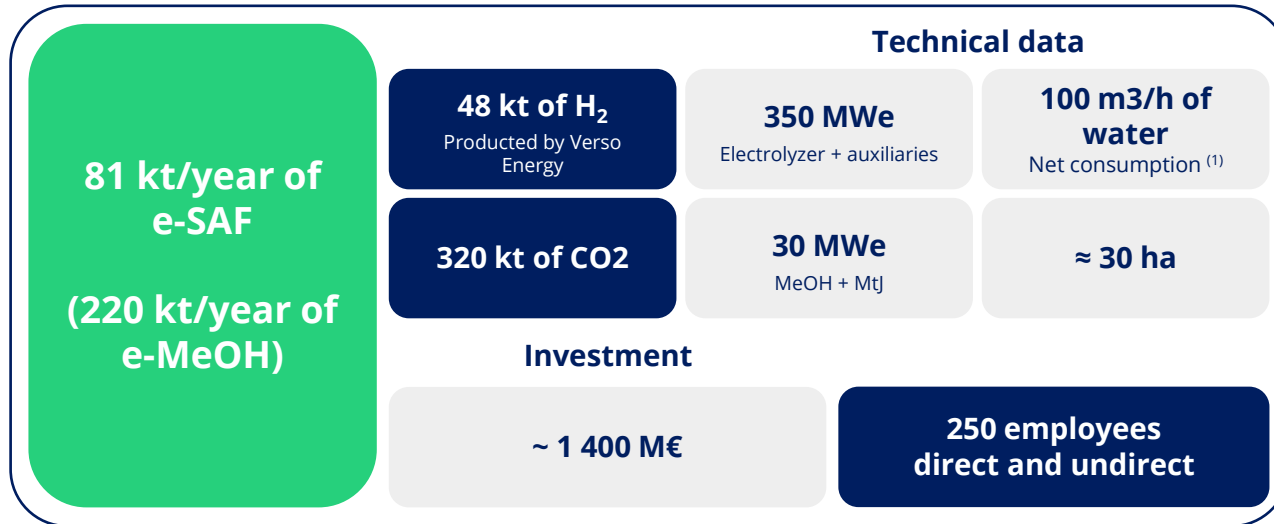
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Overview of the process of e-SAF production



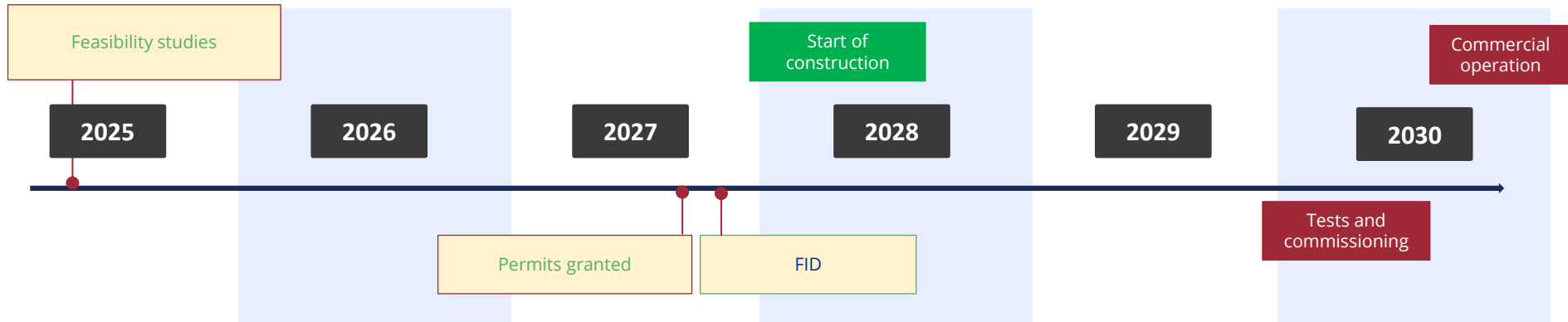
Verso Energy focuses on the production of **e-SAF ONLY from biogenic CO_2 with Methanol to Jet technology**, Ensuring genuine decarbonation and long-term sustainable and renewable recognition (post 2041) and flexibility of the facility

Verso Energy has developed a standardized concept of e-SAF industrial plant unit



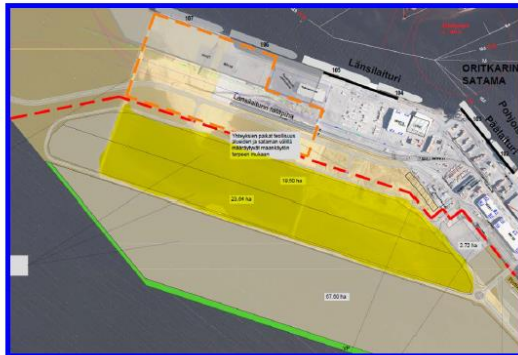
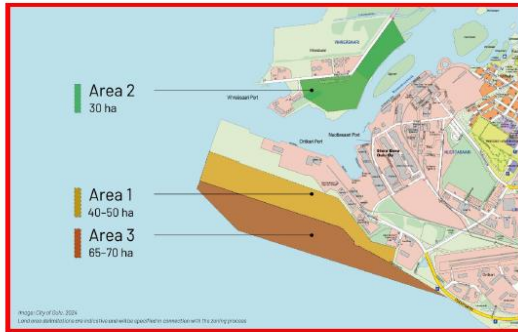
(1) Net production of water = Gross consumption – Discharged water
Gross consumption = 180 m³/h

Thanks to its standardized approach, Verso Energy can leverage its experience and target commissioning in 2030



Verso Energy is developing an e-SAF project in Oulu

Project location on the port of Oulu



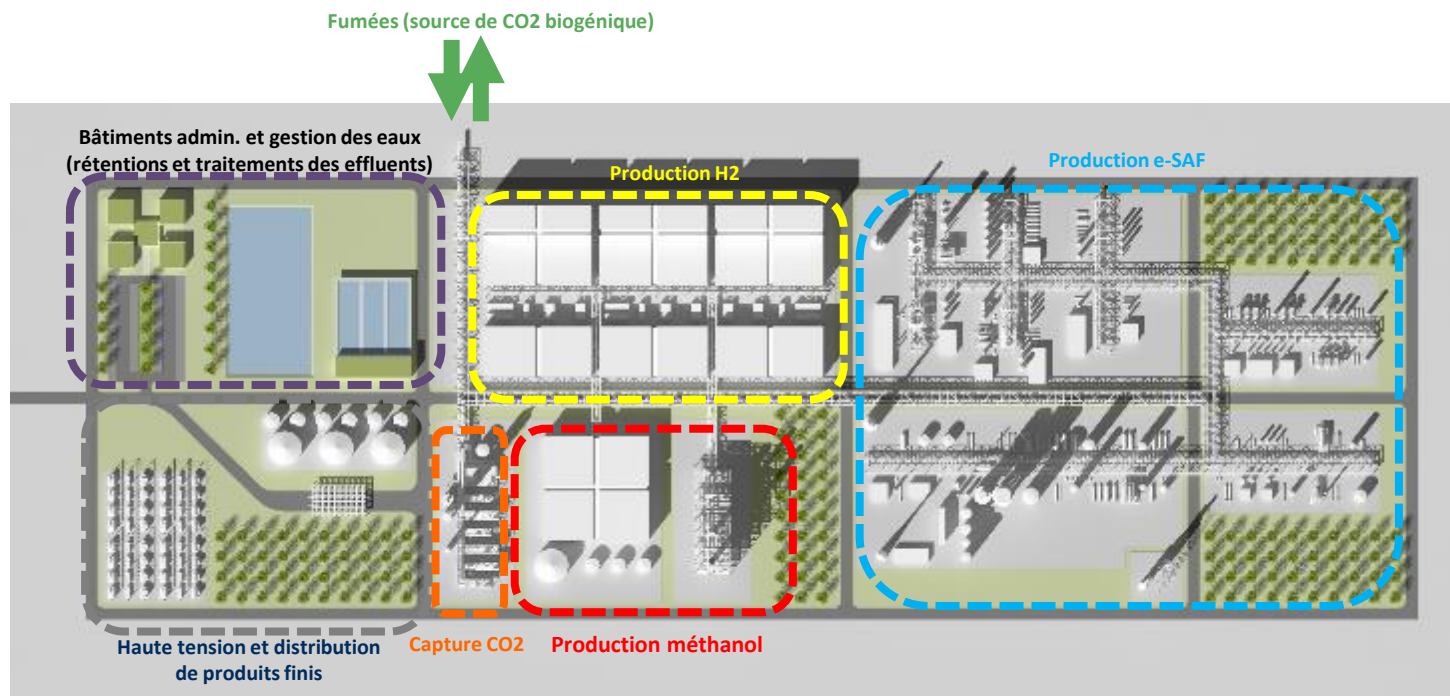
Key success factors

- Availability of the land: surface area, timeline, characteristics
- Availability of renewable electricity
- Electrical grid connection
- CO₂ supply as feedstock of the process
- Raw/demineralized water sourcing, mainly for hydrogen production
- Effluents discharge possibilities

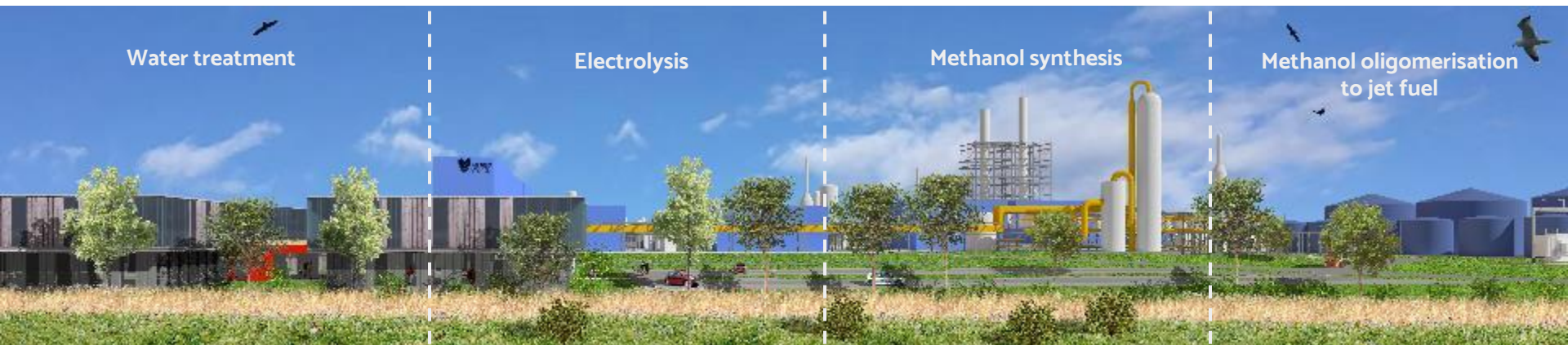
Preliminary sketch



Preliminary sketch



Architect view



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