



# St1 solving global energy challenges

St1 Vision is to be the leading producer and seller of CO<sub>2</sub>-aware energy

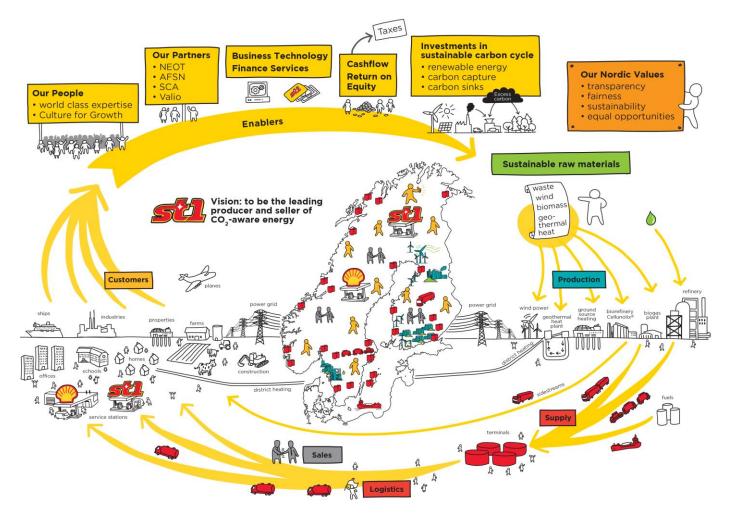
In the spirit of our vision, we research, develop, produce and invest in the energy transition to be able to provide our customers with  $CO_2$ -aware energy while creating positive societal impact

Our operations are strengthened by strategic long-term partnerships in various areas

#### **GROUP STRATEGY:**





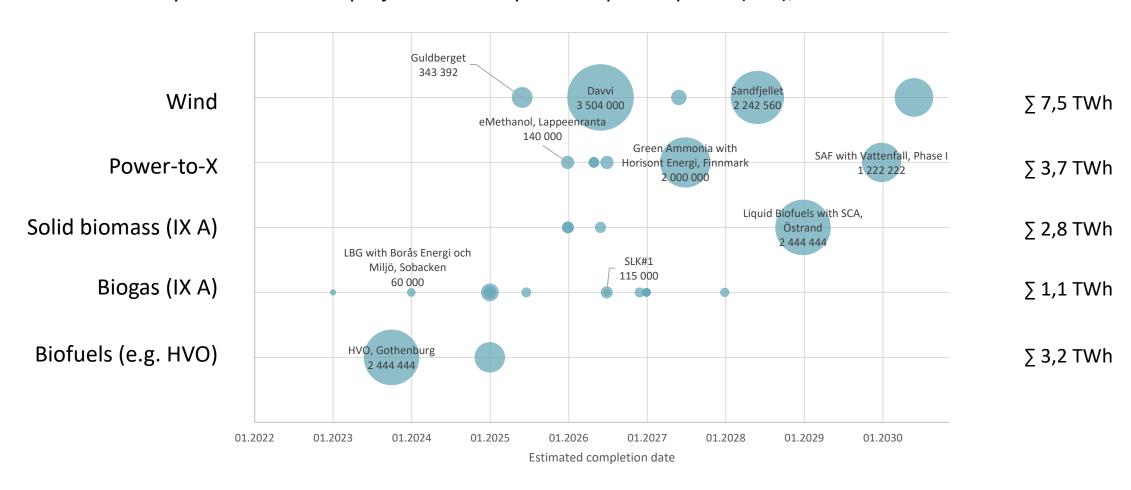


www.st1.com



### Sustainable energy projects 2022-2030

Preliminary values based on projects in concept development phase (G-1), and further

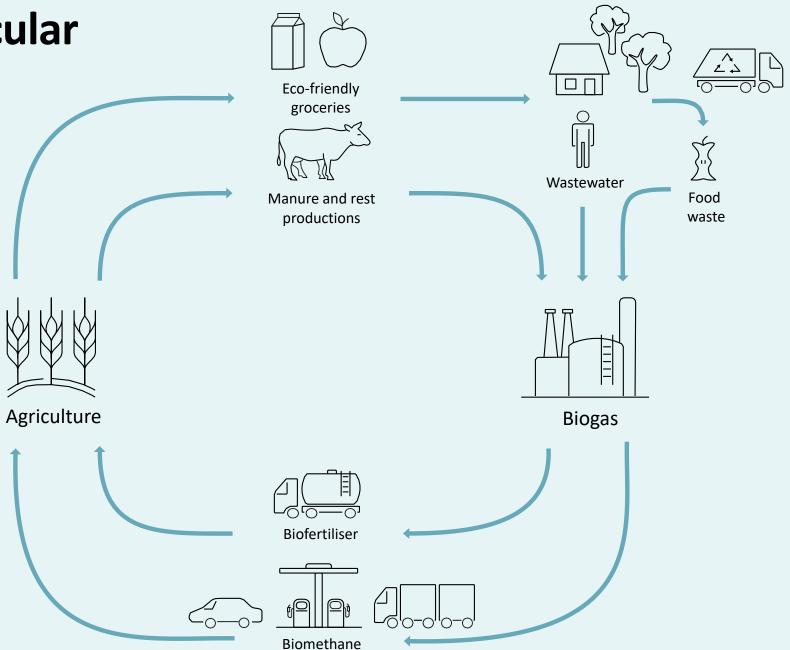


# Transport: Short vs. long term actions





Biogas circular economy









## Biogas business in Sweden

- In Sweden, St1 is a leading biogas player in the traffic segment.
  - St1 has six biogas production and upgrading units, two of which are partly owned companies.
  - St1 is in the construction phase of a biogas upgrading and liquefaction refinery in Sobacken, Borås. The biorefinery is expected to commence operations by the end of 2023.
- In Sweden St1 imports and exports biogas and deliver it to customers through several sales channels.
  - St1 has a distribution network of 50 public filling points and 20 bus depots.





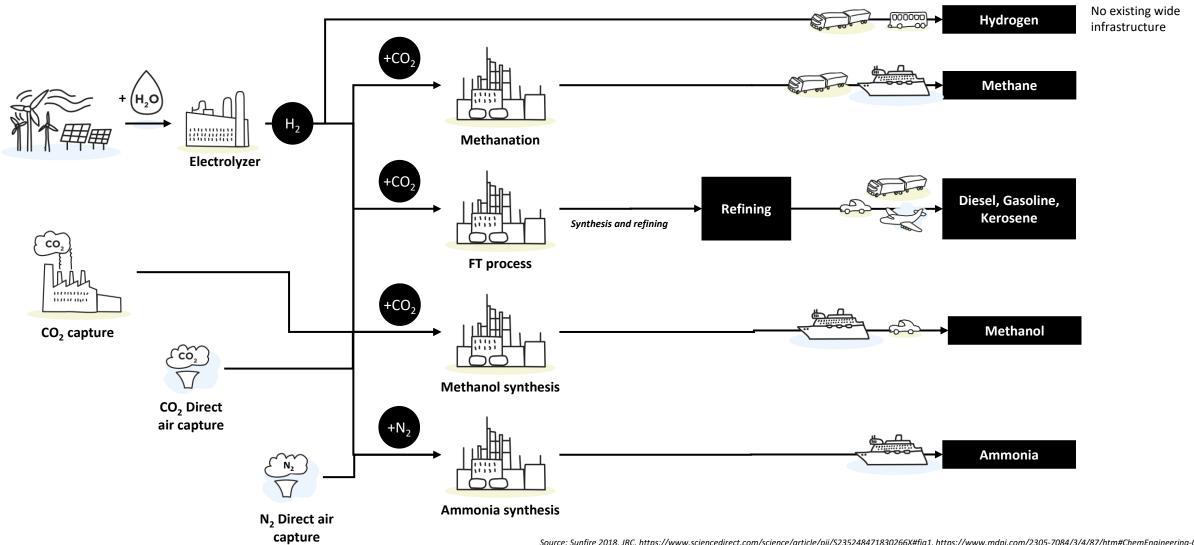
### **Biogas business in Finland**

- In Finland we have established a joint venture Suomen Lantakaasu Oy with food company Valio with the aim at producing biogas from dairy farm manure
  - Suomen Lantakaasu Oy is planning to build Finland's biggest biogas production plant in Kiuruvesi.
  - The planned annual production capacity of the plant is 125 GWh, and the goal is to be operational by 2026.
- St1 is building biogas filling stations for heavy traffic in Finland
  - The first LBG filling stations will be opened in Mäntsälä and Hämeenlinna littala at the end of the year 2023.
  - St1's goal is to build a nationwide network of biogas filling stations for heavy traffic.



### **P2X Routes for transportation**









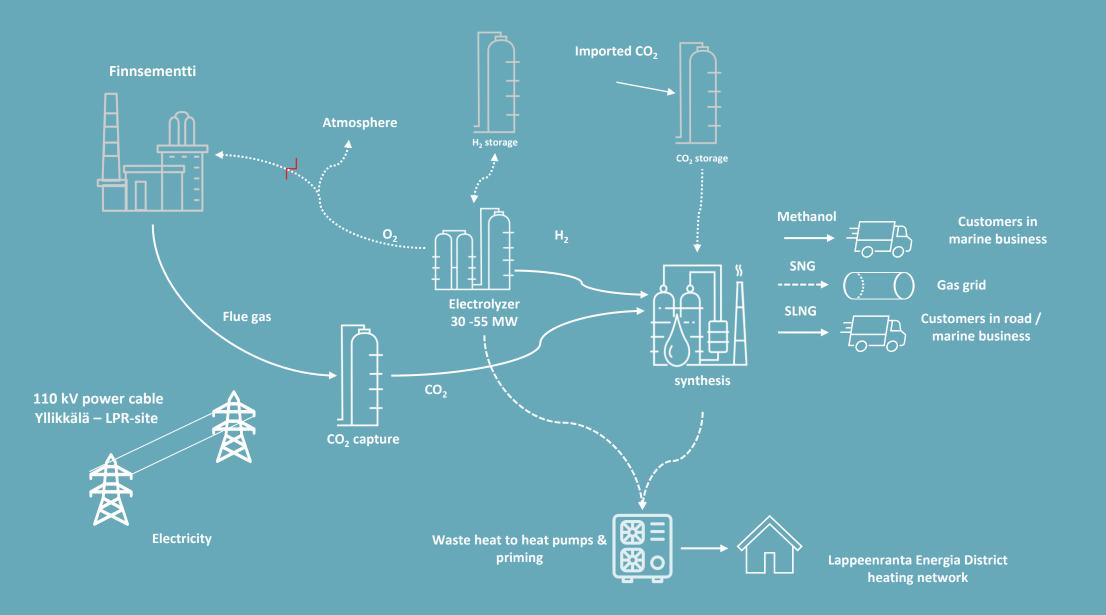


# Lappeenranta P2X project



#### **Lappeenranta Power to X**







#### Lappeenranta P2X project

- P2X business development support St1 in reaching vision & finding new sustainable business from wind to fuel customers.
- The aim is to build a new eFuel facility to Lappeenranta.
- eFuels creates new value chain responding to the growing demand on green marine fuel, road fuel mandates and chemical industry feedstocks originating from growing mandates in EU and customers' climate targets.
- We will increase our competence to design and optimize eFuels production as well as understand the markets and customers better. We will also create valuable partnerships.
- Project has proceeded in EIA (Environmental Impact Assessment) phase. EIA program was sent to the Finnish authority (ELY-keskus) on Monday 31st of October 2022.

#### High-level timeline

Pre-basic 03/2023- 08/2023

Basic engineering starts 09/2023

Final Investment decision 2024 (environmental permit ready)

Commissioning and start-up 2026

