

St1 vision: "To be the leading producer and seller of CO₂-aware energy"

Our goal is to

- Develop and commercialize functional and environmentally sustainable solutions
- Deliver these solutions profitably

Each solution must be

- Technically ready for use today
- Ecologically and ethically sustainable
- Logistically feasible



St1 home market

ST1

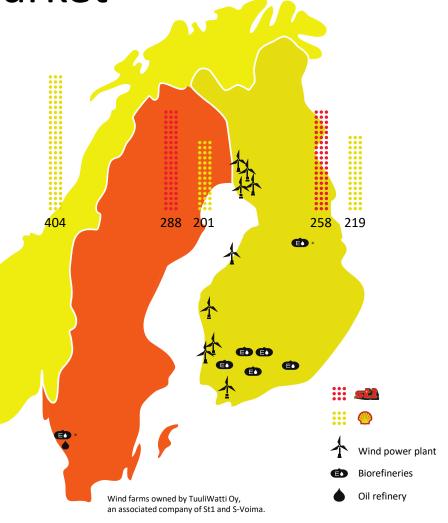
Home market consists of Finland, Sweden and Norway. Headquarters in Helsinki. Employs more than 770 people. Operations are strengthened by strategic long-term partnerships in various areas.

STATION NETWORK

Total of ca. 1300 St1- and Shell-sites in Finland, Sweden and in Norway.

ENERGY PRODUCTION

Biorefineries producing wastebased advanced ethanol. Industrial wind power plants. Geothermal pilot heat plant under construction. Oil refinery in Sweden.



IVIANNET SHANES 2016		KEY FIGURES 2018
FINLAND		Net Sales, MEUR
Petrol	23%	C QQT
Diesel	19%	6,885
Light fuel oil	21%	
SWEDEN		Profit for the period, MEUR
Petrol	19%	55.3
Diesel	15%	22.5
Light fuel oil	22%	
NORWAY		Return on Equity, %
Petrol	23%	7.0
Diesel	20%	7.0

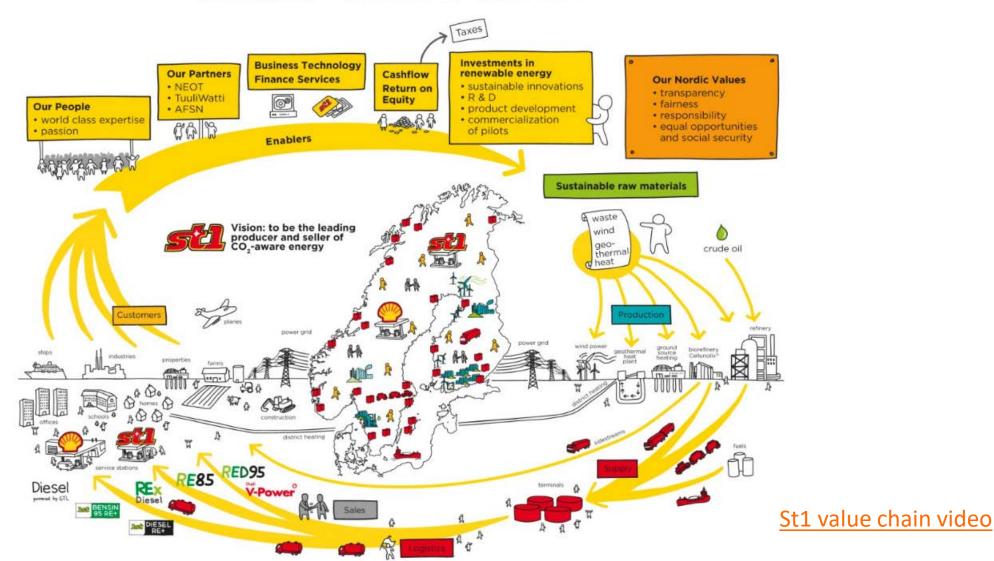
22%

Marine gas oil

MARKET SHARES 2018



VALUE CHAIN



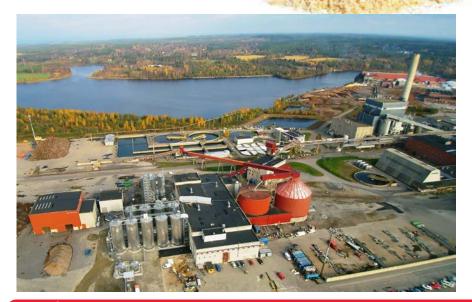


St1 Biorefinery Business Development & Production



St1 Cellunolix® process is optimised for softwood saw dust

Saw dust



Energy

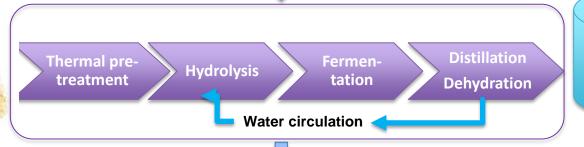
- steam
- electricity

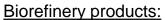
Additives

- enzymes
- yeast
- chemicals

Utilities

- water
- · cooling water







Waste water

- anaerobic digestion
- existing waste water treatment plant
- water systems



Ethanol

99.7%

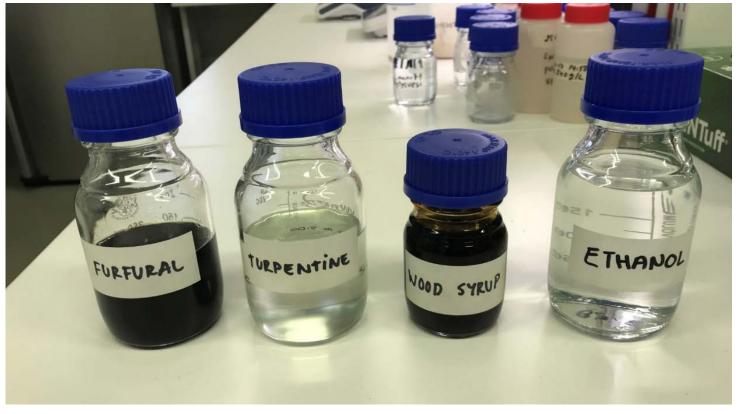


St1-ASEMA



Cellunolix® Products

Sustainable & biobased solutions for different uses and applications







St1 Advanced Ethanol Production in Circular Economy

- Over a decade St1 has developed waste based advanced ethanol production concepts for various waste feedstocks.
- Biorefinery concept and technology development is done hands-on from lab to pilot and furthermore to demonstration scale ending up to a commercial replication.
- Current development focus is in
 - new feedstock
 - Process enhancement
 - own enzyme onsite production
 - biorefinery side products to valuable renewable products.
- Development is made in partnership with world class commercial and academic partners.





