

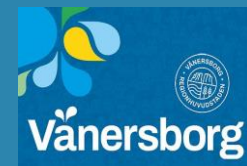


Swedens electricity production 2021

Energy- and climate advisor

Patrik Dokken

Trollhattan – and Vänersborg municipality



- Hydro electric 70 TWh 42 %
 - Nuclear 50 TWh 30 %
 - Windpower 27 TWh 17 %
 - Cogeneration 15 TWh 9 %
 - Solar power 1 TWh 0,6 %
-
- Total production 165 TWh
 - Total use 140 TWh
-
- Net export 25 TWh 15 %
-
- To run all passenger cars with electricity would require about 12 TWh/year

Electricity production in Sweden 2021



LADDBARA FORDON I SVERIGE

APRIL 2022



338 619
LADDBARA PERSONBILAR



710
ELBUSSAR



9 516
LÄTTA LASTBILAR



2 424
MOTORCYKLAR



104
Tunga lastbilar

62% LADDHYBRIDER

38% ELBILAR

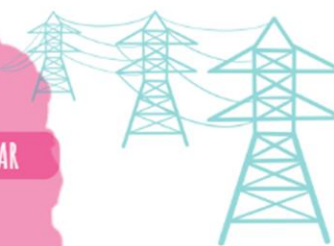
LADDBARA BILAR UTGÖR

7%

AV PERSONBILSFLOTTAN

56 %

TILLVÄXT SENASTE 12 MÅNADERNA



...SOM KAN ANVÄNDAS
TEX FÖR ATT BALANSERA
ELSYSTEMET

8 250

MWh BATTERIKAPACITET



2 702
PUBLIKA LADDSTATIONER

14 679

LADDPUNKTER, VARAV

1 630

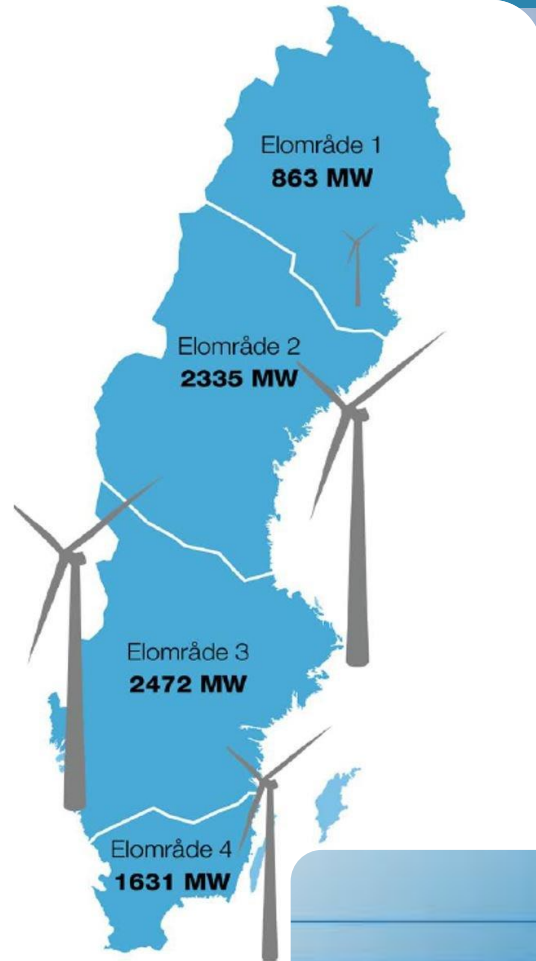
MED SNABBLADDNING

VILL DU VETA MER?

BESTÄLL FÖRDJUPAD STATISTIK AV
POWER CIRCLE - ELBILSSTATISTIK.SE

POWER CIRCLE
Electricity for sustainable energy

Offshore wind power with Hydrogen storage



Forecast

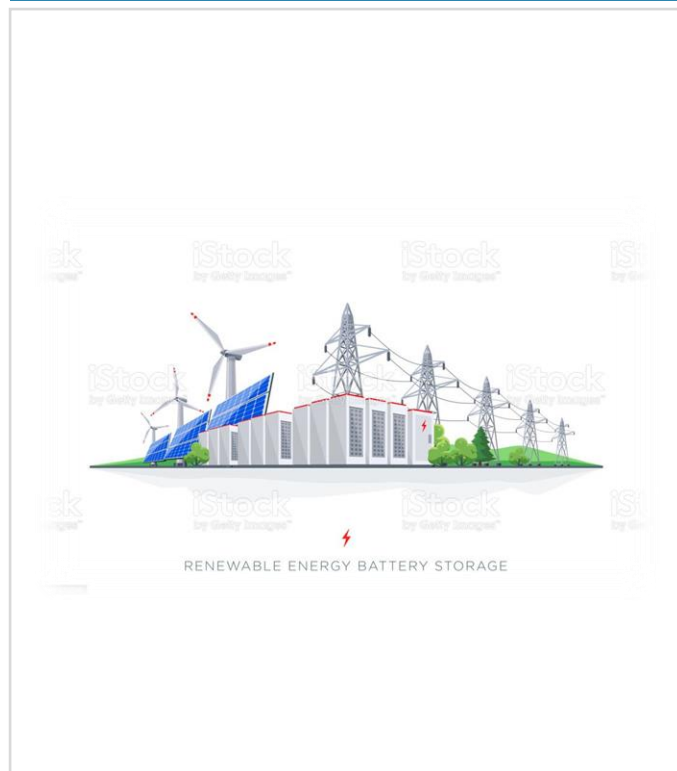
- 165 TWh-330 TWh 2040
- Up to 500TWh 2040



Lack of power but not lack of electricity

Battery – and Hydrogen storage

North ↔ South



Solar power



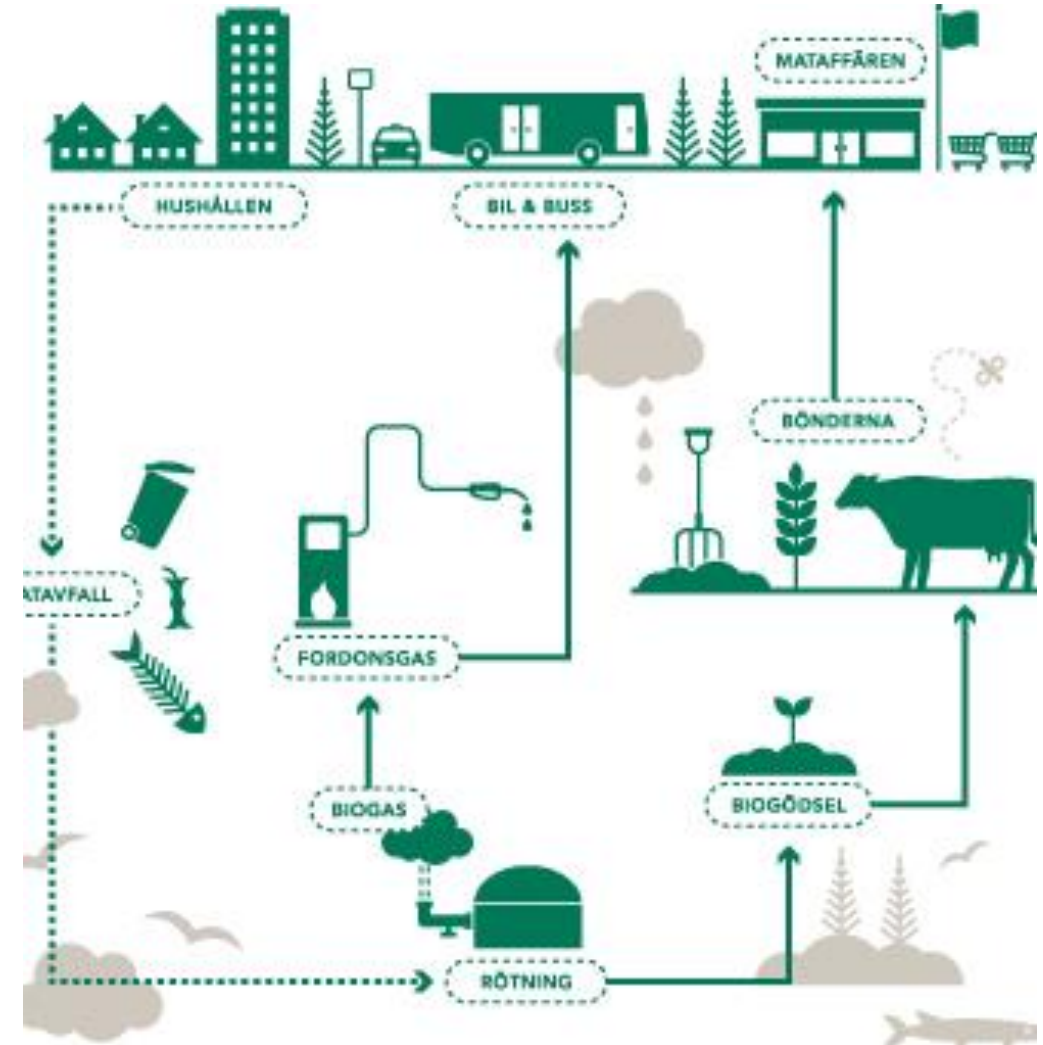
- Doubled number of facilities 2020-21
- Grants 14,55% or max 5000 euro/person/year
- Battery storage 50% or max 5000 euro/person/year

Is biogas an option instead off fossilgas?

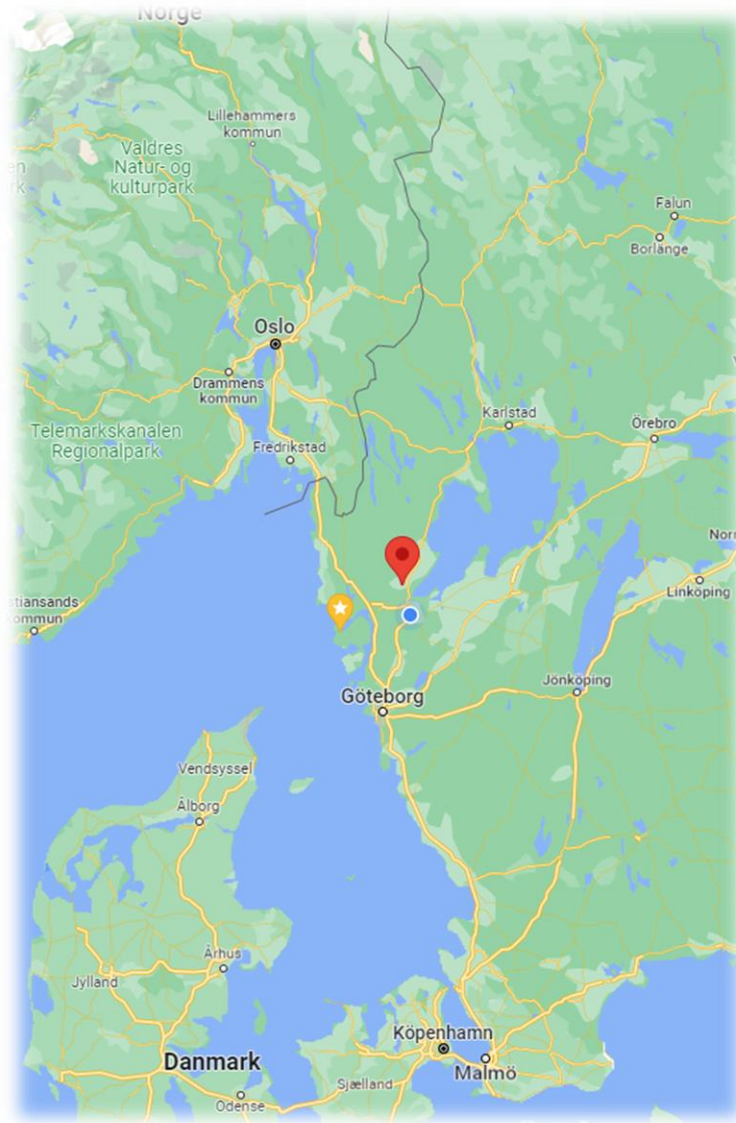
Conversion?

- South of Sweden
- Fyrbodal

Biogas plant



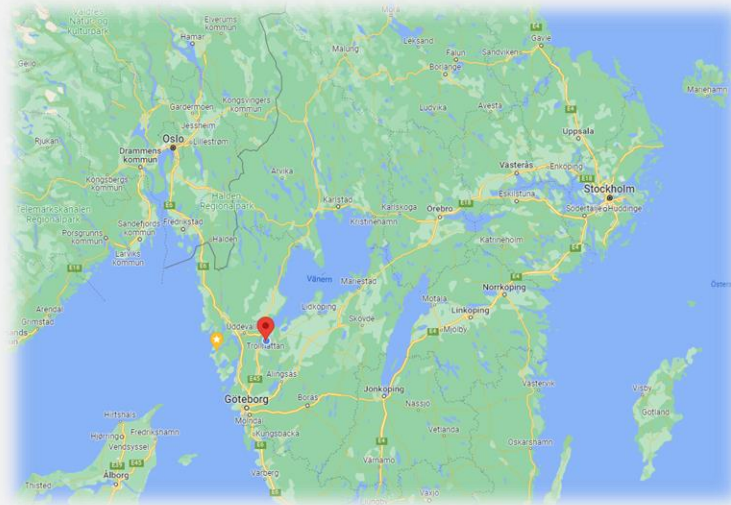
Vanersborg municipality



- Old statistics
- The hydropower plant at lake Vänern outlet supplies 33 000 households with electricity.
- The municipality of Vanersborg has six wind turbines so far and they are interesting to build more.
- Biogas is mainly used as a vehicle fuel, but can also be used for electricity and heating. The recycling station in Heljetorp produces 112 000 liters of fuel every month. Biofertilizer is a by product and an effective fertilizer
- District heating from a steelplant
- Solar power 107 w/person, 40000 inhabitants
- Transport: every year, about 2 million tonnes of goods are transported across Lake Vänern.



Trollhattans municipality



- Hydro
- Solar power 120 w/person, 60 000 inhabitants
- District heating
- No wind power

