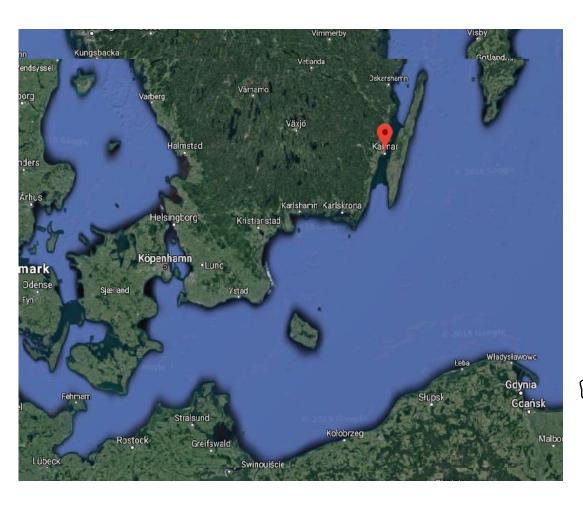
# Biogas in Kalmar municipality

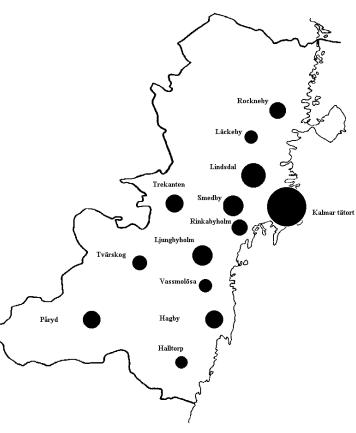
Exampels of public-private partnership to secure sustainable supply chains and rural development





#### Kalmar on the map





#### Swedish climate law 2017:720

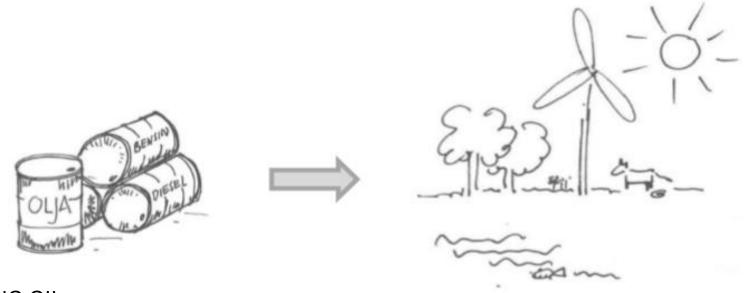
- To stop hazards to the climate system.
- Sweden must cut emissions.



- Long term goals.
- Report every year & Action plan every 4th year.
- Sweden is to become the the first "no fossil fuels nation of welfare" – combining growth and sustainability.
- No netto emissions by 2045, then minus emissions.



#### Local goal: No fossil fuels by 2030



NO OIL No diesel No coal No natural gas

Neither in the transport, industry or housing sector.

#### Public sector as frontrunner

- General fleet (private cars, light trucks): > 3 % on REW.
- Internal fleet: EV 60, biodiesel 150, biogas 150, diesel 100 (+ bikes and cargobikes). *No new cars on fossil fuels*.

Charging infrastructure, bike lanes, car-sharing, public buses.



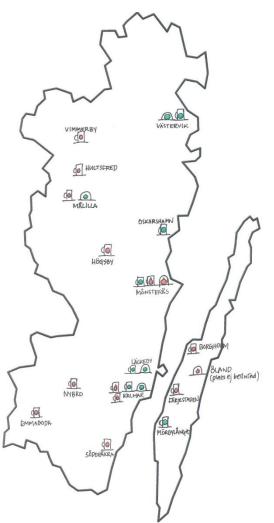
#### Biogas in the region - now and soon

#### Production

4 sites

2-3 sites in planning

Consumption
400 regional buses
1100 cars
ad. 100 small buses
from 1 jan 2020



Filling stations

6 filling stations LNG/LBG

10 more to come

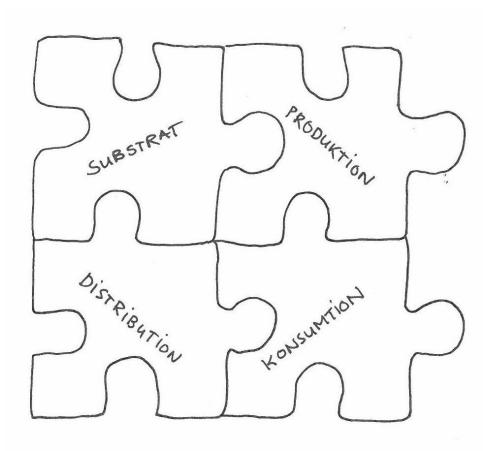
+ 1 LNG/LBG station

# Why bother with biogas?

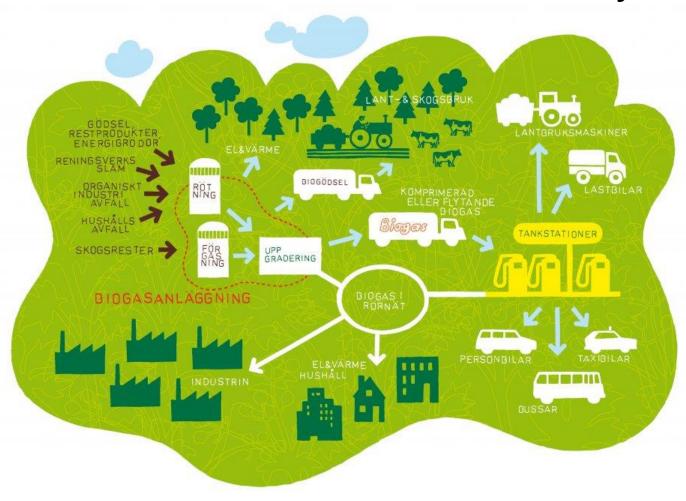




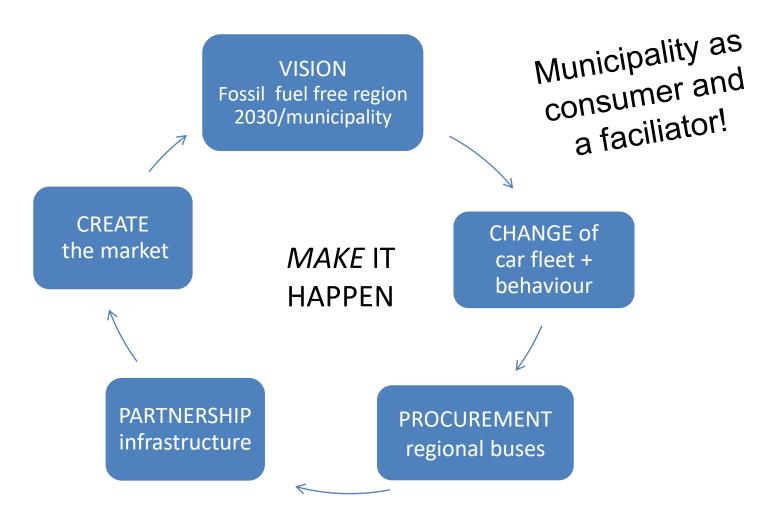
#### Like a jigsaw puzzle



## Biogas in a nutshell: Local, sustainable and easy



### It does not come on its own



#### Public procurement as a tool

- 400 buses public regional transport biogas first choice
- Secured a steady volume, enough also to bring forward 2 new filling stations in the region.
- Long term contracts and many small packages
- Less expensive than planned and no appeals



#### Production at More Biogas, Kalmar







#### And also for heavy trafic

LNG/LBG station opens in Kalmar early 2020

 Contract/joint effort between Kalmar and Gasum to increase the renewable part of the gas and create a market



#### Factors of success

- Shared vision and ambitions
- Brave polititians!
- Public sector to be forerunners for REW showcase
- Local and regional partnership broad cooperation.
   Biogas Sydost, managed by the Regional Energy Agency
- Marketing of the work and celebration of achived milestones
- Time and endurance among hard working officers...

#### Södermöre - a rising biogas area?

- A white spot on the map of renewables
- A rural area with many animal farms
- Approx 7000 inhabitants, 500 km2 area
- Mapping of farmer's interest + substrate volumes
- Opens meetings
- Transition of public car fleet
- Education for employees
- Location investigation

29,8 GH - Self sufficient on renewable fuels?





# How much manure is needed?

