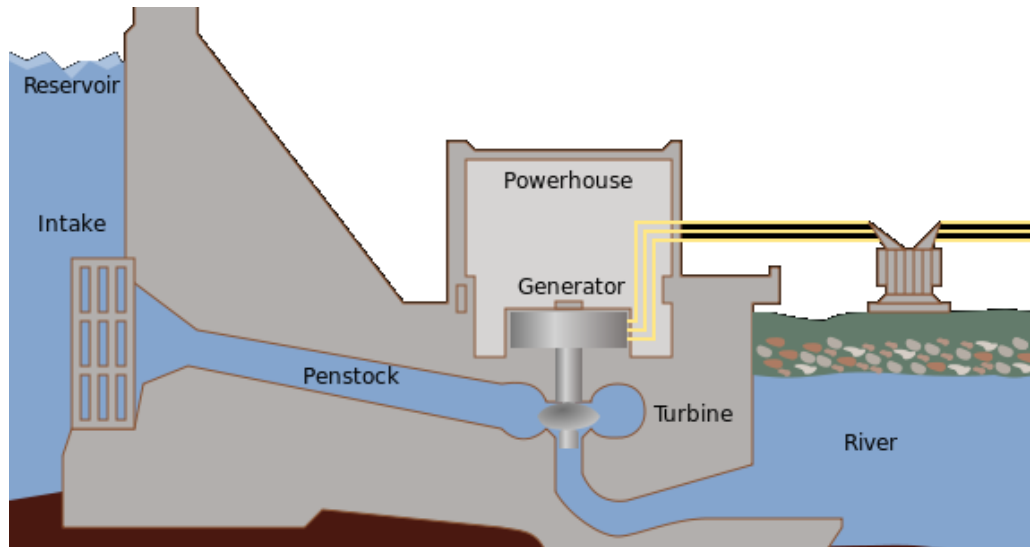
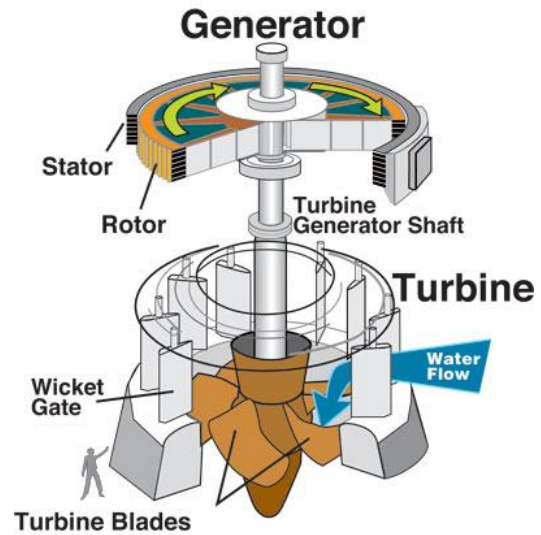




# RENEWABLES IN VARDE MUNICIPALITY



Made by team Denmark



# Hydroelectric power



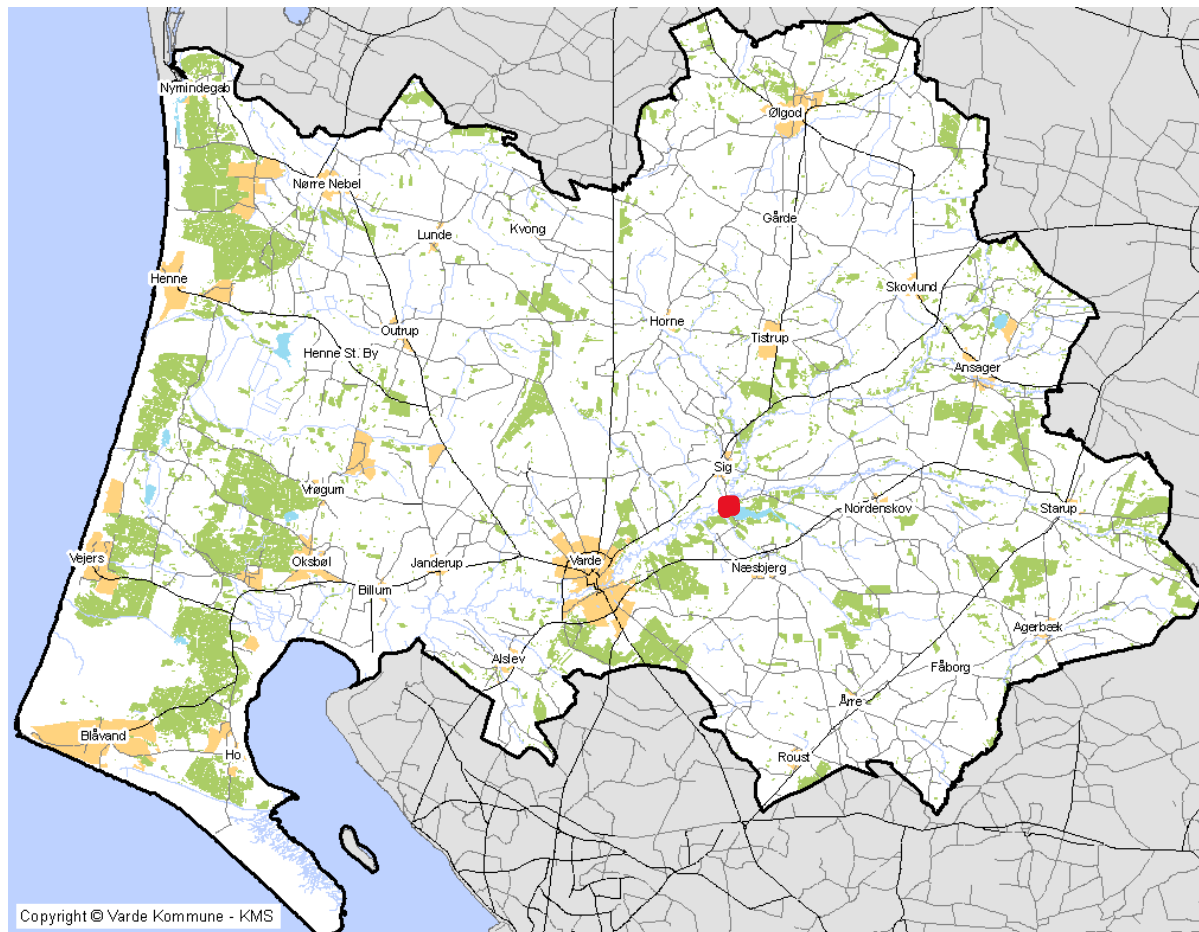
In the same way as the turbine in a wind turbine. When the turbine spins, turn the shaft and rotor. As the rotor inside the generator spins, an electric current is produced. The electric generator thus converts mechanical, moving energy into electrical energy.



# Where is it?

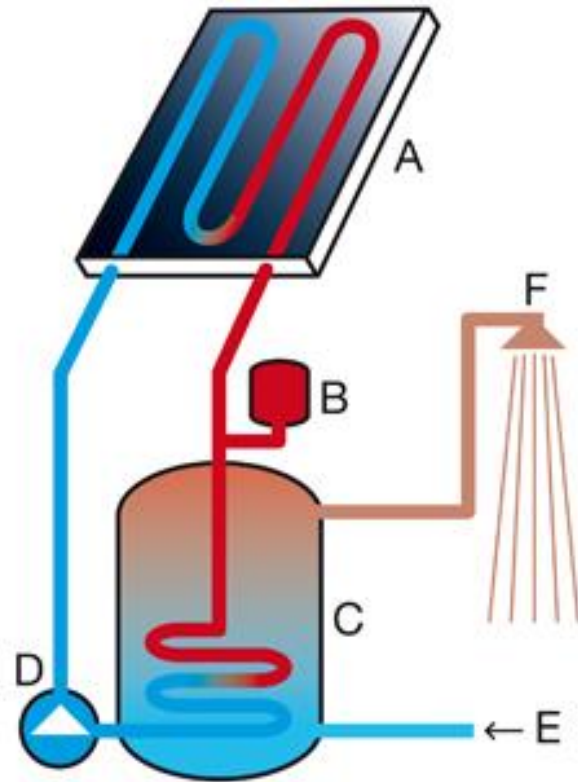


It is about 2 kilometer from Sig.



- KARLSGÅRDVÆRK
- THE LAKE AT THE KARLSGÅRDVÆRK

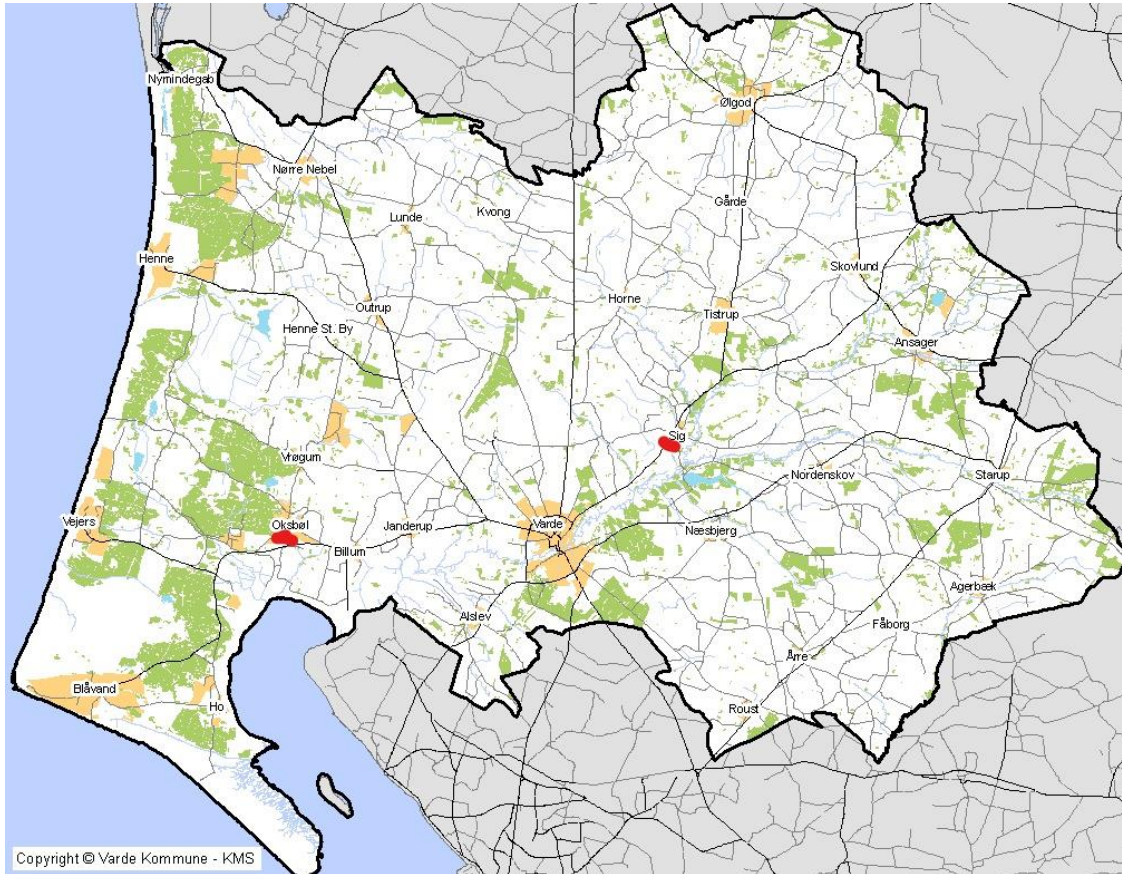




# Solar collector



Solar heating system is a closed system used to make hot water. It works by the sun shining on one or more solar panels that sit on the roof of a house. The heat from the liquid in the pipes heats the water, which is led out to the tap. Once the liquid has cooled, it is pumped back to the solar collector.



Where is it?



There is in Sig and in Oksbøl.



- Here can you see the pump and the solar collector.





# Heat pump

WHAT  
IS A  
HEATPUMP  
AND HOW  
DOES IT  
WORK??

A heat pump is a versatile machine that absorbs air and takes out the heat energy. With a closed cycle and with help of an compressor and refrigerant it can heat up cold air it can make the air even hotter, heat up water or air.

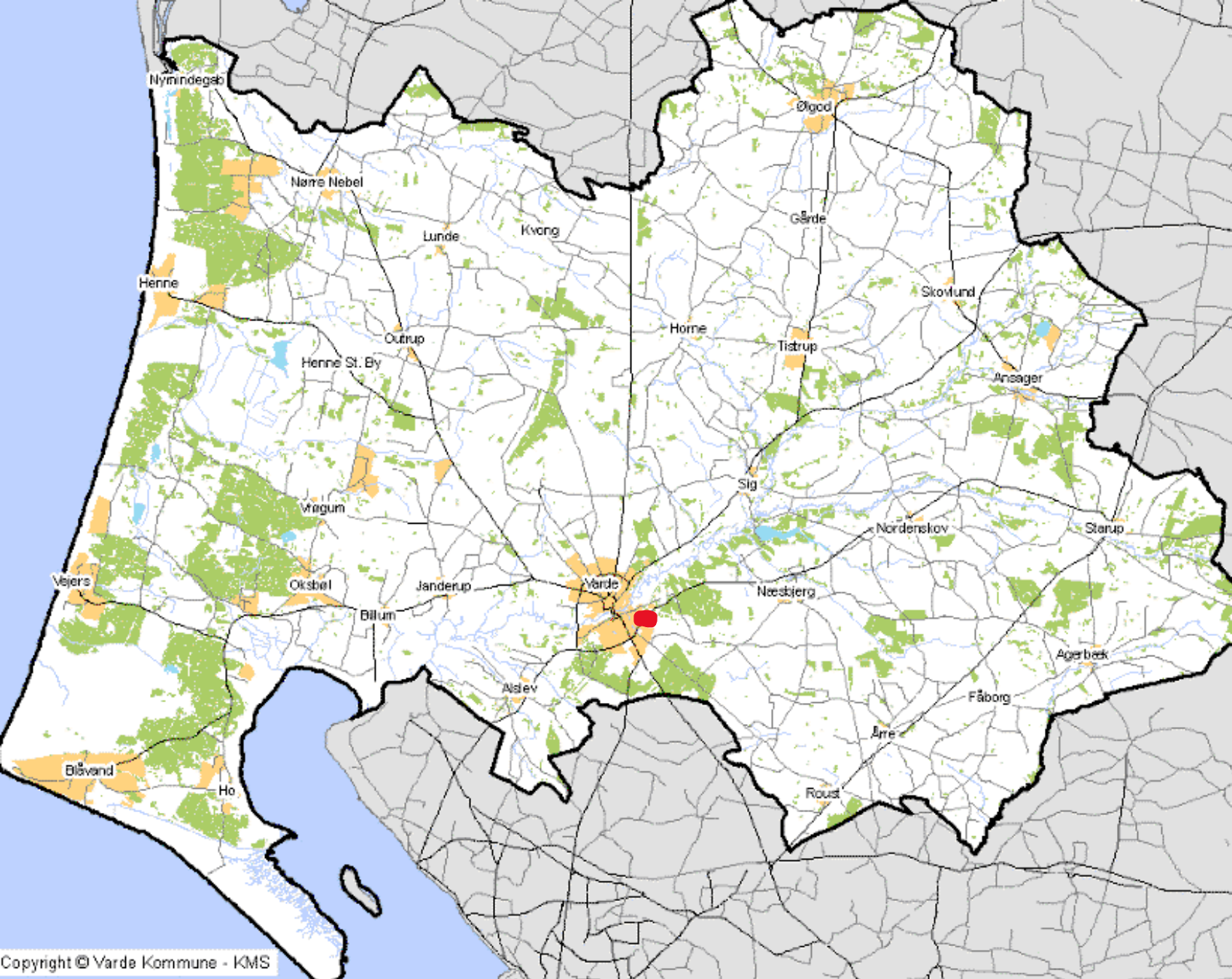


Model of heat pump dirt to water.





## Map over Varde municipality





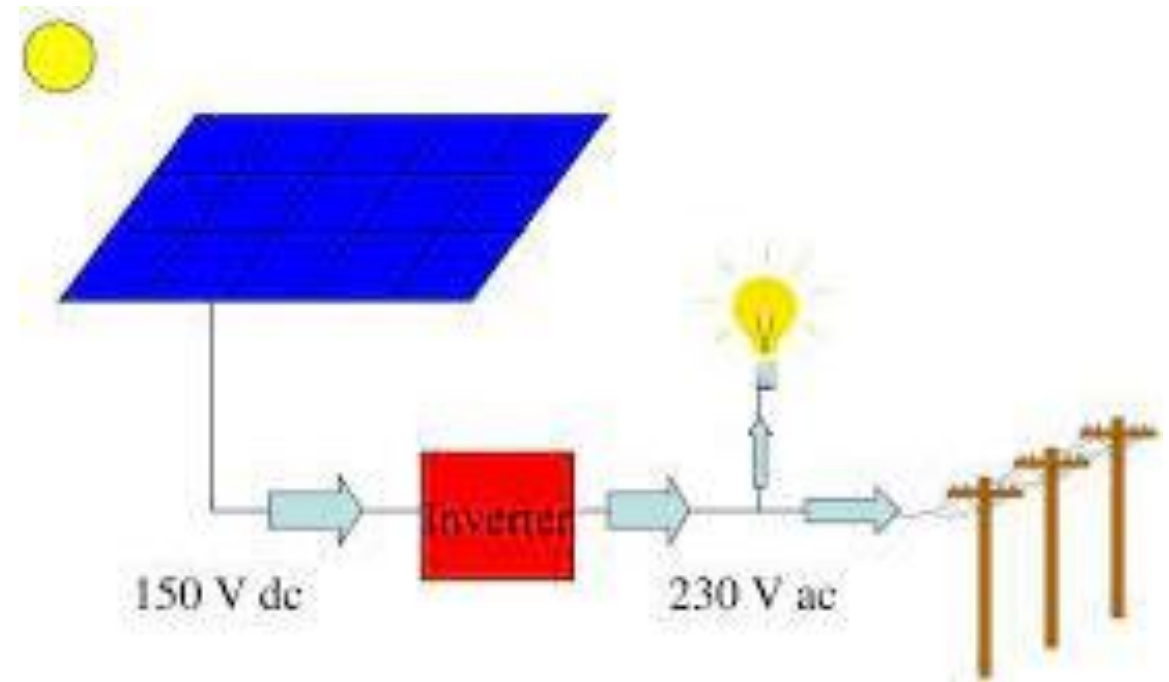
Pictures of our heat pumps  
Don't mind Mikkel

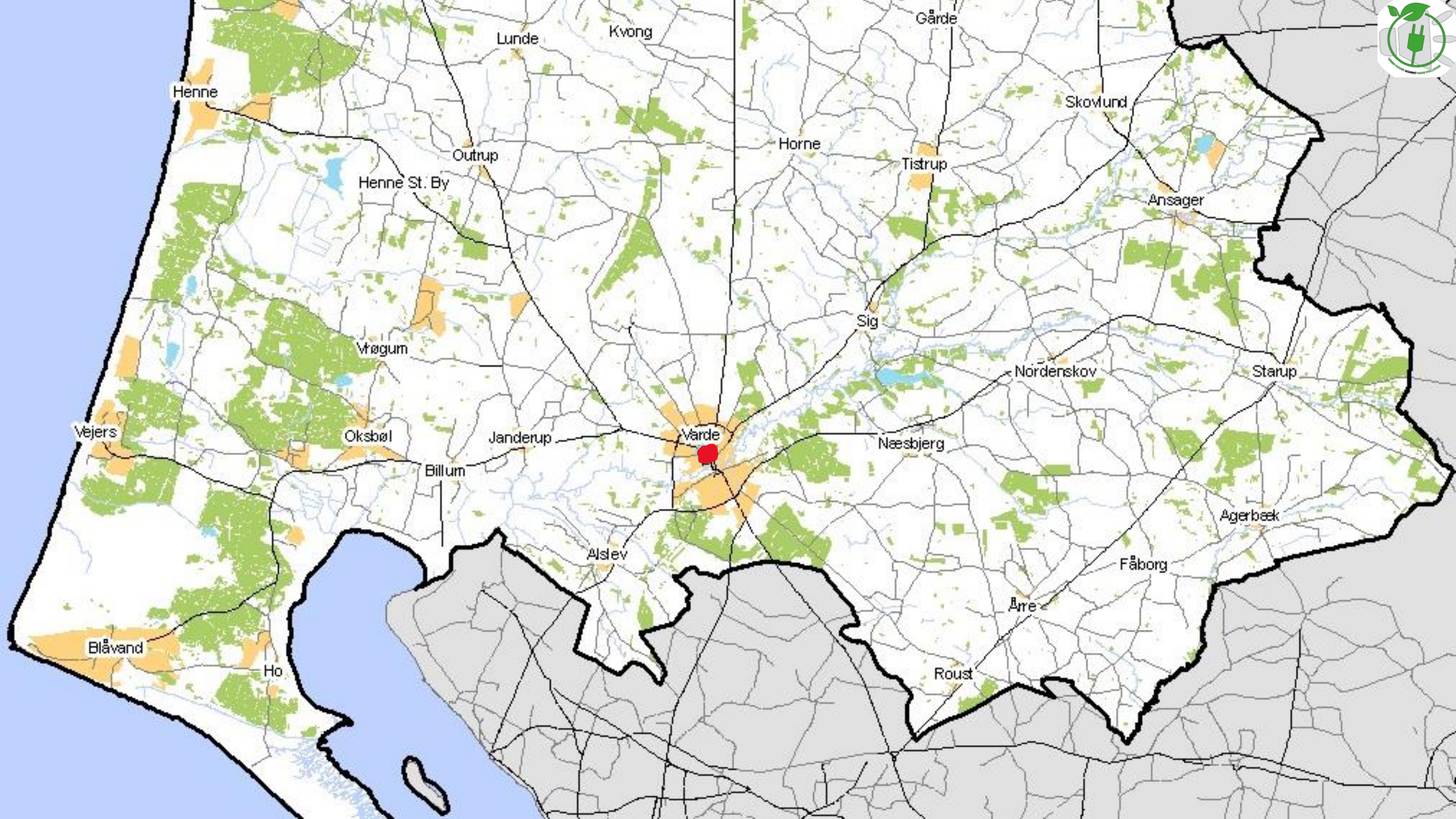


# SOLAR POWER



Solar power works by converting energy from the sun into power. There are two forms of energy generated from the sun for our use- electricity and heat. Both are generated through the use of solar panels, which range in size from residential rooftops to 'solar farms' stretching over arcses of rural land.







Abildvej nummer 14  
Hjertingvej nummer 29

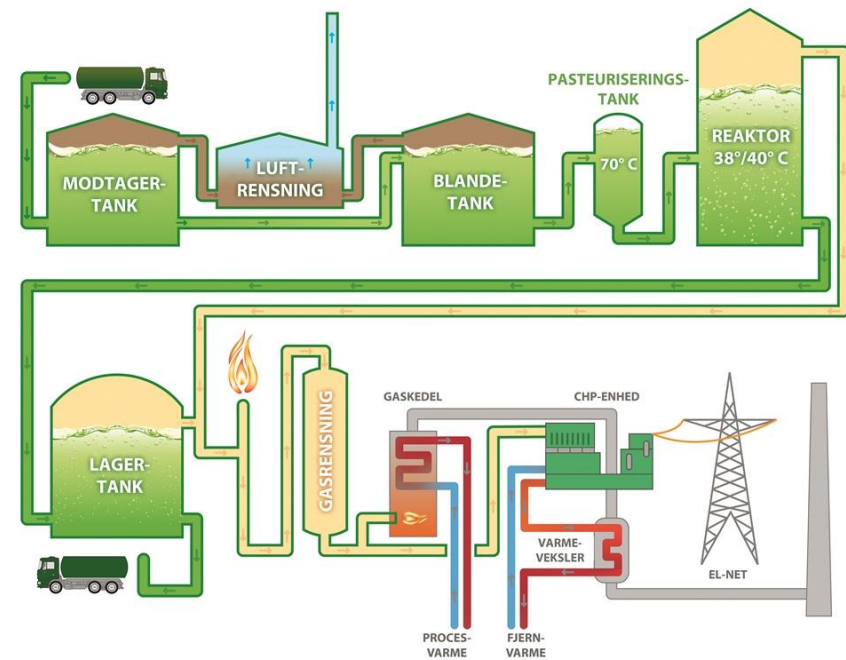




# Biogas

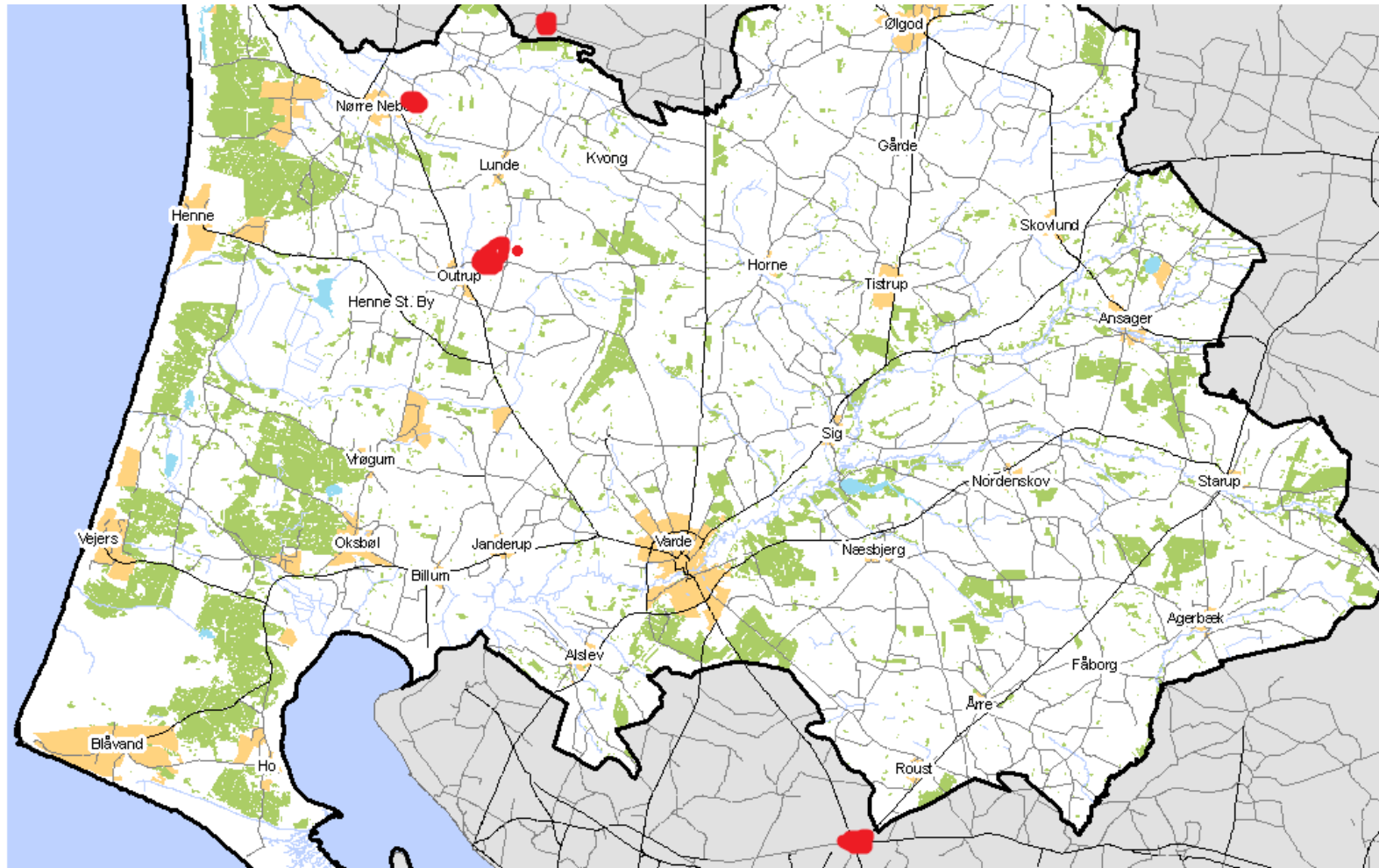
## How works it?

Biogas works with, when you have some food rest and some manure, you burn it and then you can use it to a oilburner. You can also use it to propellant in some vehciels or ships.





Here is some biogas in varde Commune





# Pictures

THIS IS KORSKRO



And this is also korskro







# Wind turbines



- Instead of using electricity to make wind (like a fan) wind turbines use wind to make electricity. The wind turns the propeller/blades of a turbine around a rotor, that spins a generator and makes electricity.



Here are the wind turbines in  
Varde commune





The Wind turbine is at  
96 Lerpøtvej.