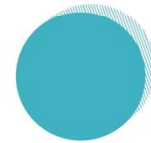
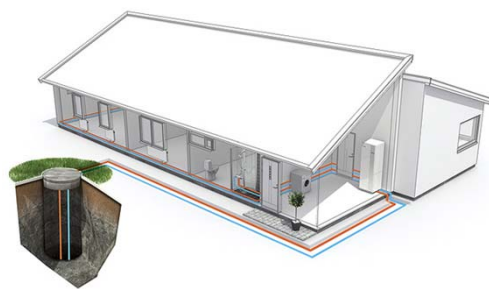


Mountain and Geothermal Power

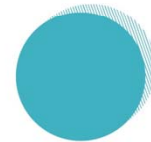
Tony Klinkmann
Joakim Höstman
Sebastian Lindberg
Sebastian Nordling



Mountain and Geothermal Power



- One time cost
- Free energy source
- Enviromentally friendly



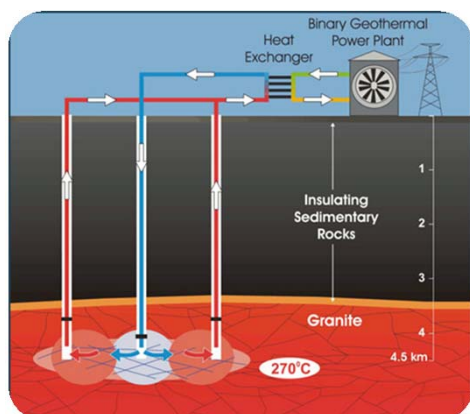
Geothermal Power



- The bedrock is stored thermal energy mainly comes from the sun.
- The temperature of 50-200 meters depth is between 2-8 degrees celsius and its almost the same whole year

YA!
Yrkesakademien
i Österbotten

Geothermal Power



- Geothermal power benefits
- Geothermal power is a free energy Source.
- Geothermal fits just about everyone
- In a efficient way to lower their Heating bills.
- The cost will pay you back in 5-10 years.

YA!
Yrkesakademien
i Österbotten

Geothermal Power



- While digging the collector hose
- pay attention to following things
- Drains, Cables,
- Water and sewer lines
- Make a tube map for example to avoid
- problems in case of future diggings
- and that they can be made without the
- plant taking damage.

YA!
Yrkesakademin
i Österbotten

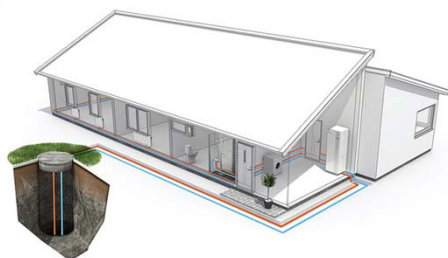
Geothermal Power



- When collecting soil heat pump affected by the local climate in your yard it could mean poorer growing conditions and the incorrect design of other nuisances.
- -If you go and put dimensions in wrong way it can cause subsidence

YA!
Yrkesakademin
i Österbotten

Geothermal Power

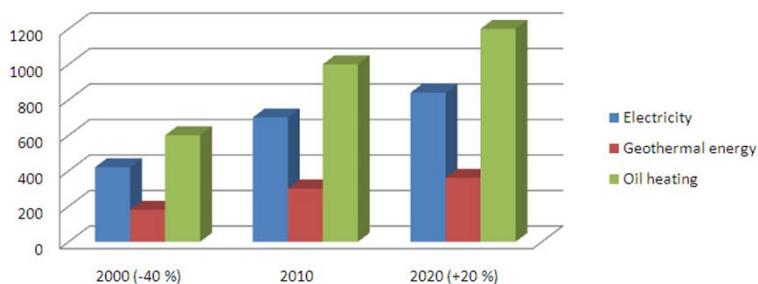


- There is always the candidate that is ultimately responsible for the heat pump
- Do not cause harm to human health or environment
- As a guideline for geothermal holes with 127mm diameter it is possible to withdraw maximum of approximately 140kWh per meter

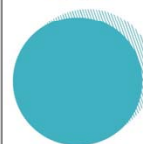
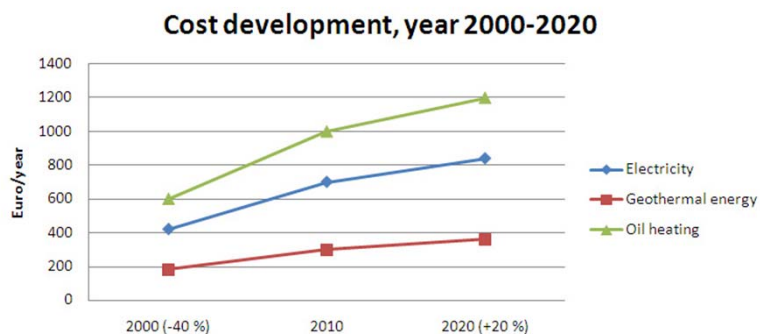


Geothermal Power

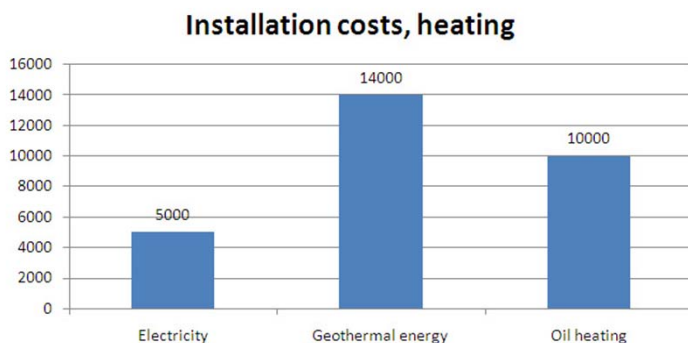
Heating costs 120 m2, €/year



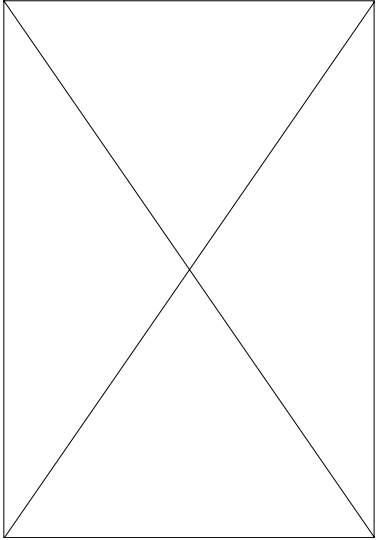
Geothermal Power





Geothermal Power



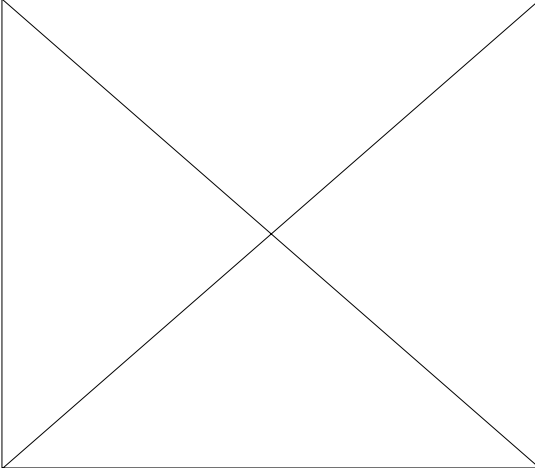
Geothermal Power





- Heat pump System inside



Geothermal Power



- Geothermal temperature
- <http://www.youtube.com/watch?v=e1r7fXO0QII&feature=related>



For next time in Germany

- Taking closer look to a enviromentally friendly energy house being built by one of our schools.
- Continue researching for more opportunities in geothermal energy.
- To Discover more benefits by using a enviromentally friendly house.

