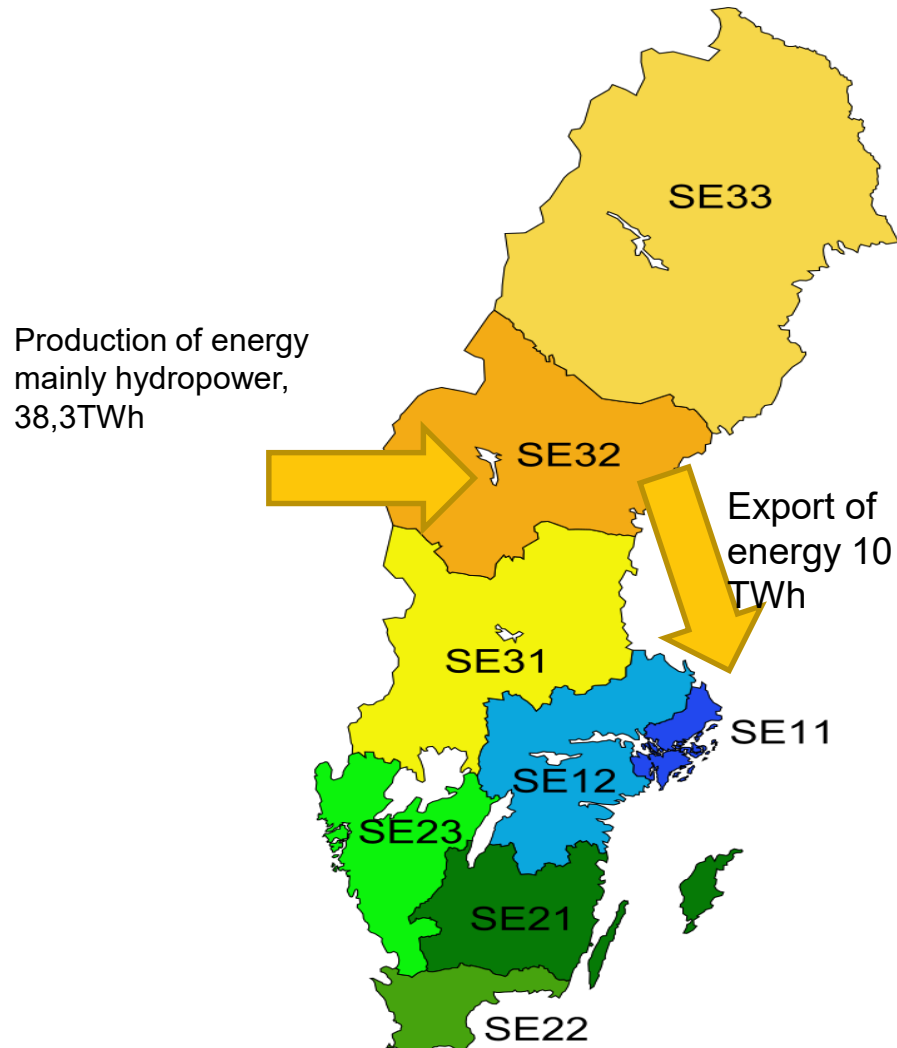


SE32 Middle Norrland, Sweden



- 76 709 km²
- 375 000 inhabitants
- 2 Regions Jämtland/Härjedalen and Västernorrland
- 67% Forest
- Hills and skiing area in the west
- Per capita income is little lower than national average and higher than EU 28 average
- Regional economy based on forestry, natural resources, advanced manufacturing and tourism.

Middle Norrland Region:

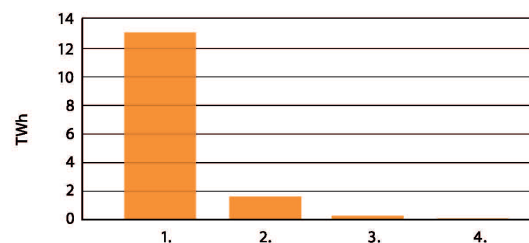


Energy balance in Middle Norrland:

Production of energy, *mainly hydropower, wind, solar, heatexchange and biofuels*: 38TWh
Use of energy in the region: 30 TWh

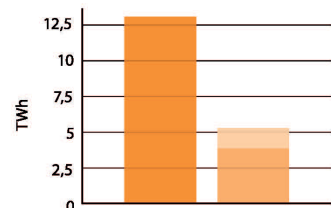
Jämtland/Härjedalen (TWh 10¹²)

Elproduktion i Jämtlands län 2017



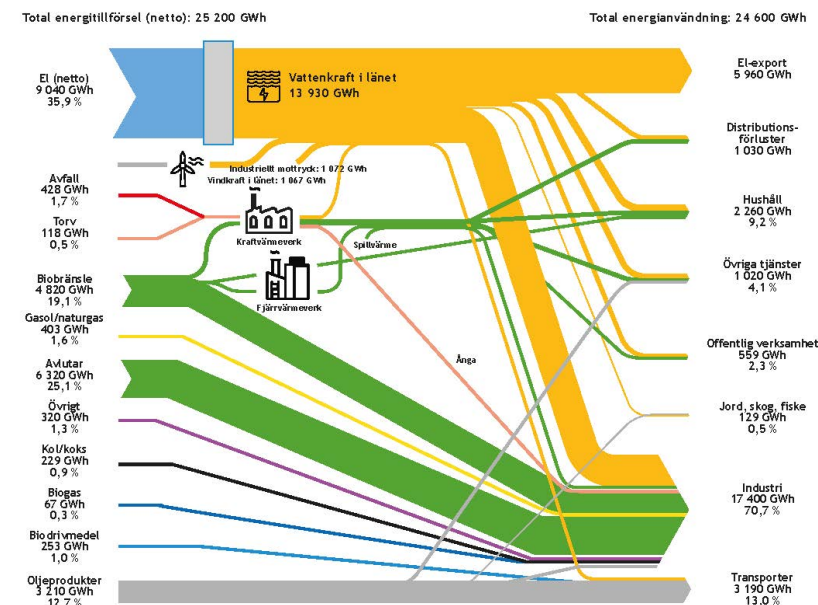
1. Vattenkraft; 12,9 TWh
2. Vindkraft; 1,7 TWh
3. Kraftvärme; 0,19 TWh
4. Solkraft; 0,005 TWh

Elproduktion kontra energianvändning i Jämtlands län 2016



- Total elproduktion; 13,1 TWh
- Energianvändning av fossila drivmedel; 1,4 TWh
- Energianvändning av övrig energianvändning; 3,9 TWh

Västernorrland (GWh 10⁹)



Figur 3. Total energitillförsel och energianvändning för Västernorrland 2015. Vattenkrafts- och vindkraftsproduktionen samt industriellt mottryck är inkluderade för att visa på storleksordningen i länet. I "El (netto)" ingår produktionen, men el-exporten är exkluderad. I energianvändningen är el-exporten och distributionsförlusterna ej inkluderade.

Energy policy targets for Sweden and the region Middle Norrland

50 per cent more efficient use of energy in 2030, compared with 2005



70 per cent less emissions from transports 2030 compared with 2010



100 per cent renewable electricity to 2040

2012 = 50%

No net emissions of greenhouse gases to 2045



Middle Norrland same targets, but have added two goals

- ***Fossil free transports by 2030***
- ***10% lowering of allowances of greenhouse gases annually between 2020-2030.***

The two regions goal is connected to the Swedish and are listed below:

Visions, goals and focus areas for Middle Norrland 2020-2030

- *Free from fossil fuels 2030.*
 - *A reduction of greenhouse gas of 10 % annually between 2020-2030.*
1. Fossil free fuel in transportation and working vehicles.
 2. Forest as a source for energy and catcher of carbon
 3. Use of renewable energy
 4. Climate smart food
 5. Effective transport society and fossil free transportations
 6. *Sustainable consumption*
 7. *Future electrical systems*
 8. *A sustainable building and property sector*
 9. *A long term bio economy*

How will the Middle Norrland reach its goals and visions?

1. **Follow the policy set by the Swedish government and priorities set by the Swedish Energy Agency!**
2. **Utilise the European Regional Fond for developing the region**

The Transformation to CO2 neutrality – Will it creates new businessmodels ?

Thank you
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