

Beispiel Jämtland

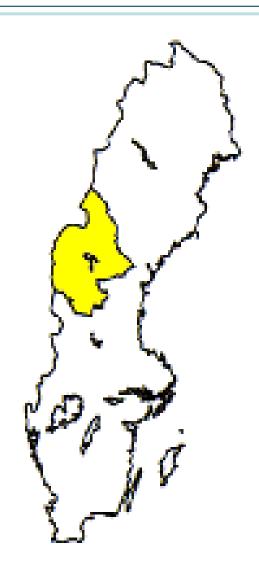


20 September 2007Jimmy Anjevall, Jämtland County Energy Agency





Jämtland County



127 000 inhabitants

50 000 km² (10% of Sweden)

2,5 inhabitants/km²

8 Municipalities



Regional Energy Agency

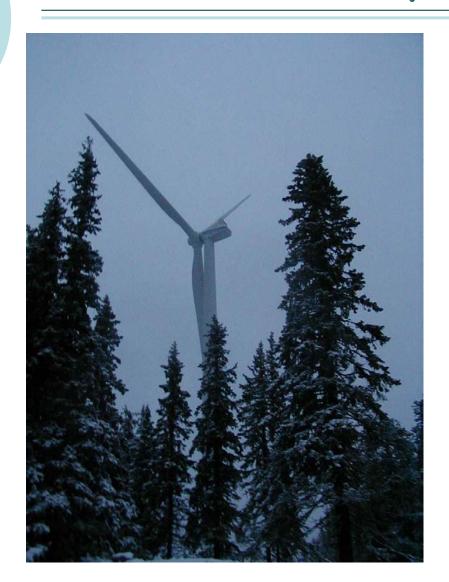


- Financed by the 8 municipalities and the Swedish Energy Agency
- Board of politicians and industry
- 3 employees
- Working with energy efficiency and renewable energy sources
- Outlining regional objectives





Electricity production



Total production: 12,5 TWh

Hydro power: 12,3 TWh

Wind power: 0,04 TWh

CHP (Biofuels): 0,2 TWh



Heat production



2,3 TWh

1,1 TWh

0,7 TWh

0,2 TWh

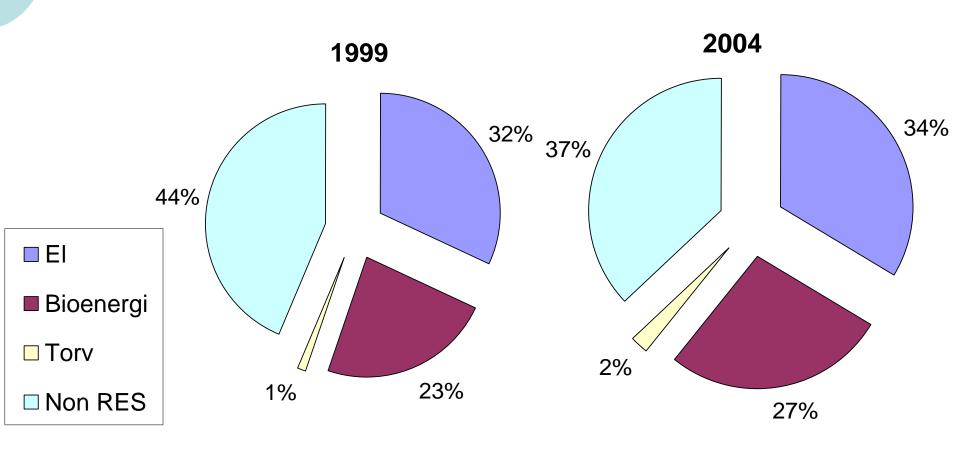
0,1 TWh

0,1 TWh

0,1 TWh

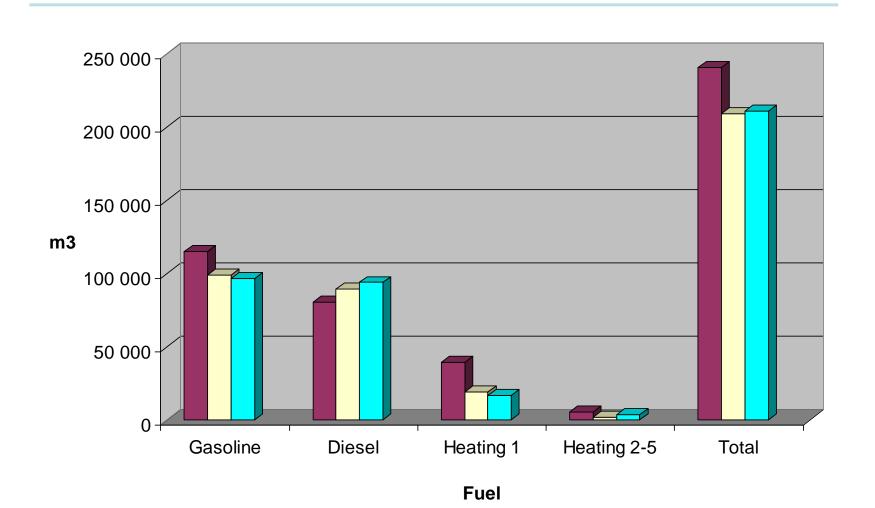


Share of renewables



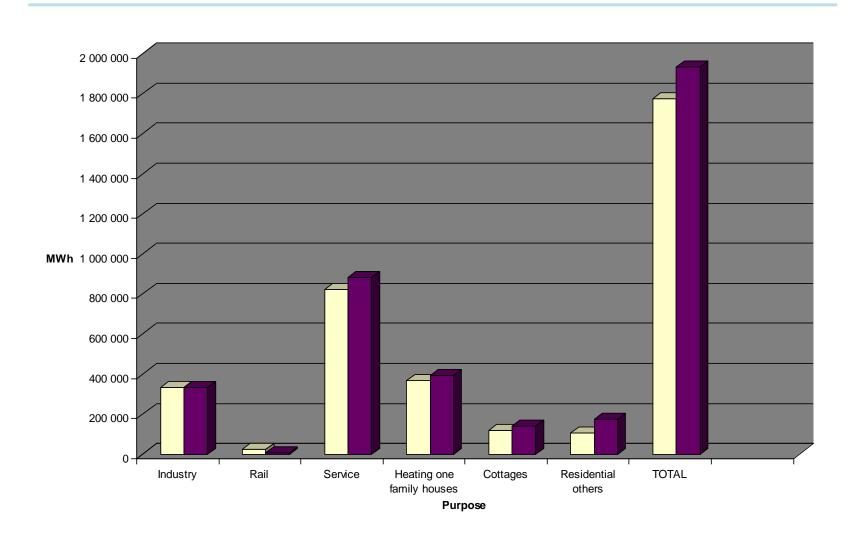


Regional oil deliveries





Electricity consumption





Achievements so far (+)

+Power: 100% domestic and RES

+Heat: 2/3 bioenergy/waste heat

+Transport: 3% RES (ethanol)

+CO₂: - 20% (1990 – 2004)

National/international attention
Sustainable Energy Europe
Eurosolar 2006
Green motorists





Negative trends/predictions (-)



Oil deliveries starts to increase again



Regional objectives

Jämtland County - non fossile fuel region

GHG/capita: -50% (1990 to 2025)

Wind power: 1 TWh (2015)

Distribution systems for alternative fuels

No "single use" of heating oil in 2010



Present work areas.....



Increase the use of biofuels in middle-scale heating plants (50 kW – 1 MW)

Increased use of thermal solar energy in houses and commercial buildings





Present work areas.....



Continued information concerning EPBD (left)



Saving energy in office buildings by changing behaviour (above)

Information for one-family houses with electricity heating (below)



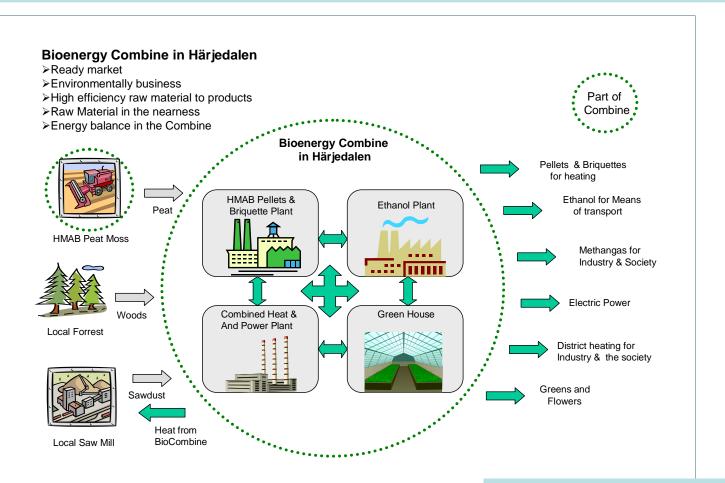


Future work areas.....





Future work areas.....



CHP, ethanol and biofuel production