



City of Växjö

Växjö - the Greenest city in Europe



Carl-Olof Bengtsson
Former Mayor of Växjö

This is Växjö

Municipal profile

- Population 79 979 (May-08)
- Land area 1674 km²
- Forests and 200 lakes
- Centre of trade and education
- 7 600 companies
- City budget 300 million Euro



From environmental problem to a resource



Lake restoration made Växjösjön, central lake, to a beautiful and useful area.

Water from fresh water supply lake helps to improve the water quality.

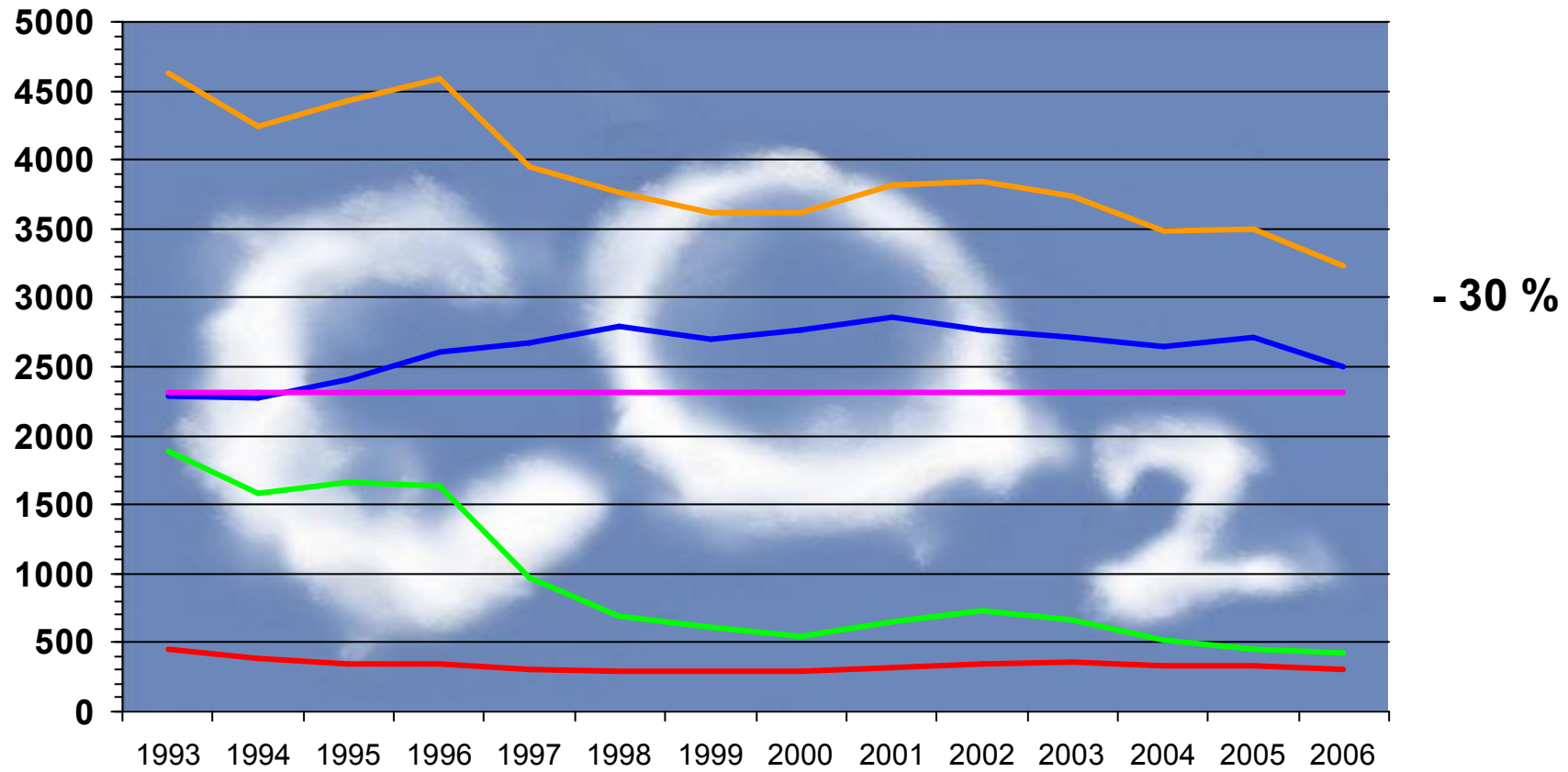


More environmental history

- **VEAB** – the municipality's energy company, bio energy and district heating, 1980's
- **Local small scale district heating in villages** since 1990's
- **Cooperation with the NGO Swedish Society of Nature Conservation** 1995-97
- **Decision to be Fossil Fuel Free Växjö**, 1996
- **104 MW biomass waste co-generation power plant**, 1997 (picture)



Emissions of fossil CO₂ (kg/inh)



— Total — Transport — Heating — Power — Goal 2010

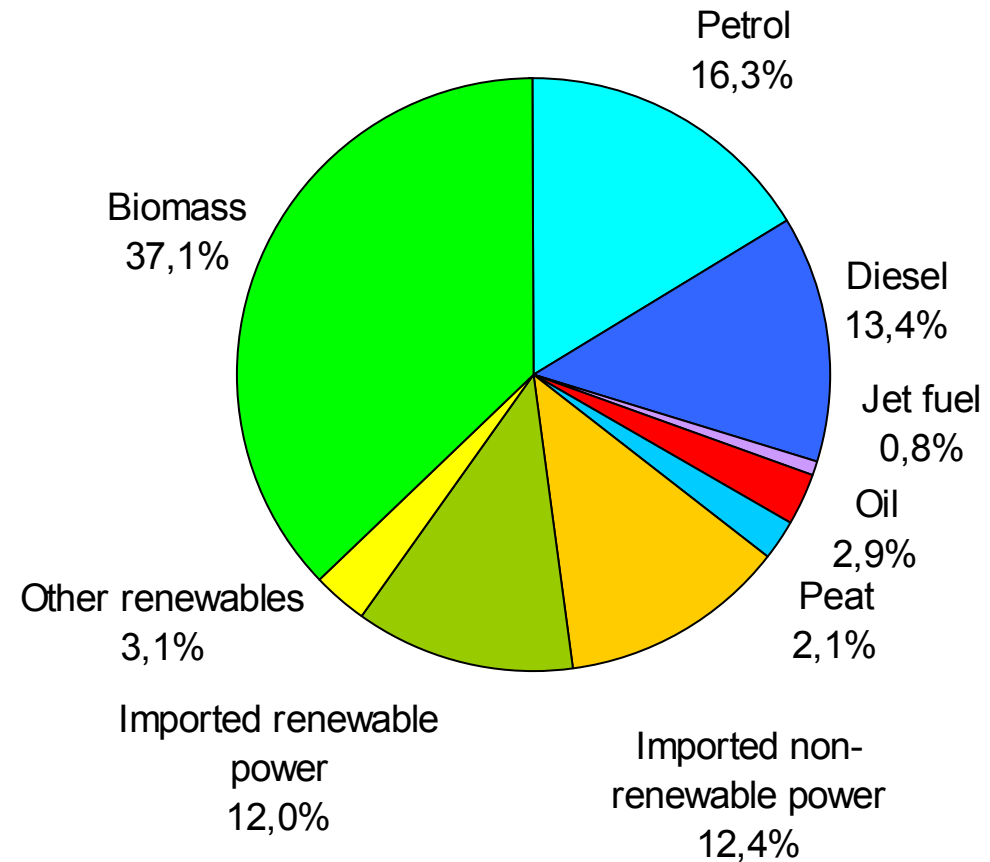
Energy supply 2006 > 50% renewables



2007 in Brussels
Sustainable Energy Europe
Award 2007 in the category
Sustainable Community.



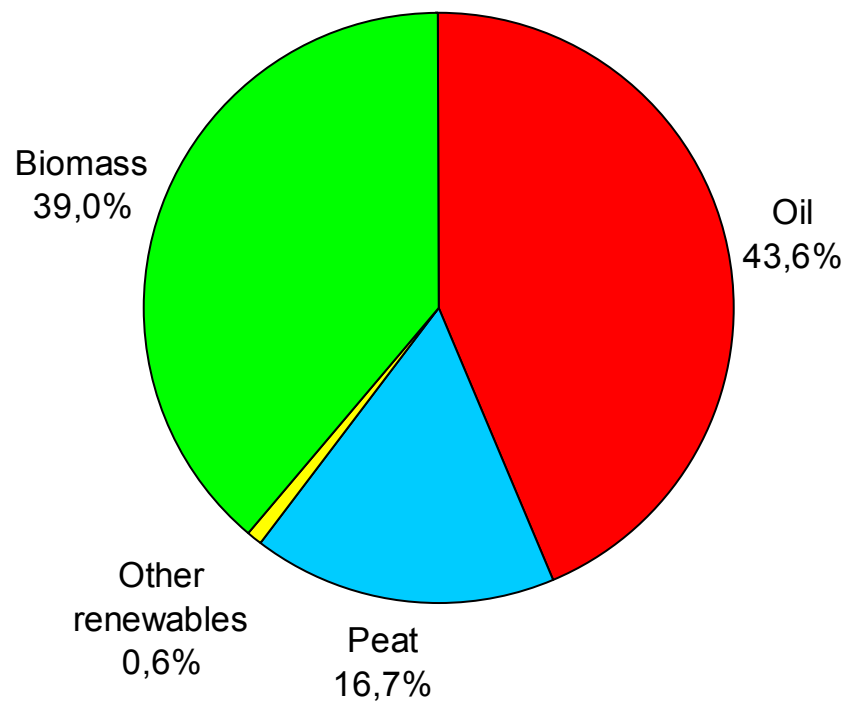
Total 2422 GWh



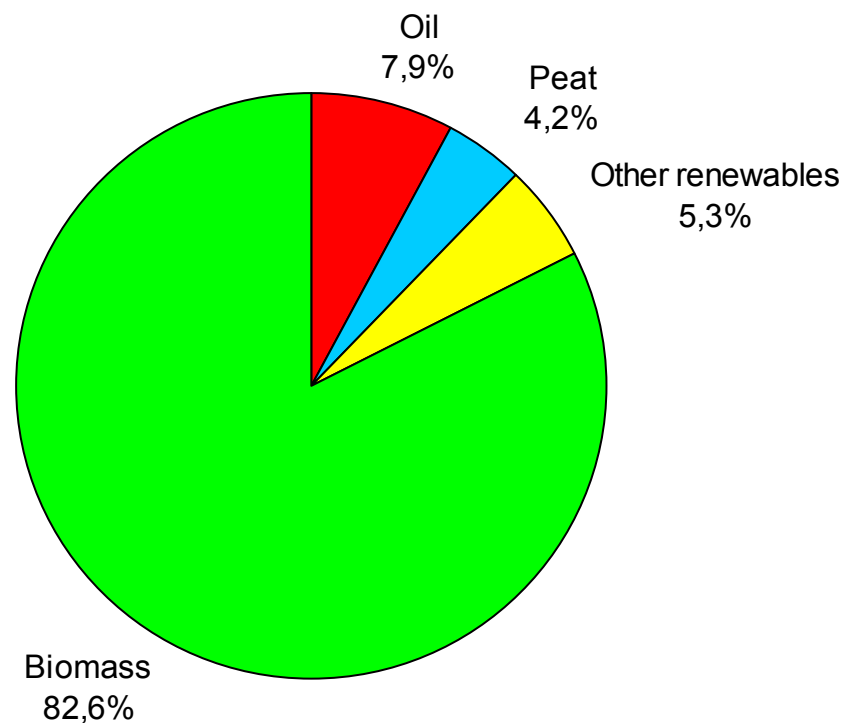
Energy for heating 1993 and 2006

(electric heating not included)

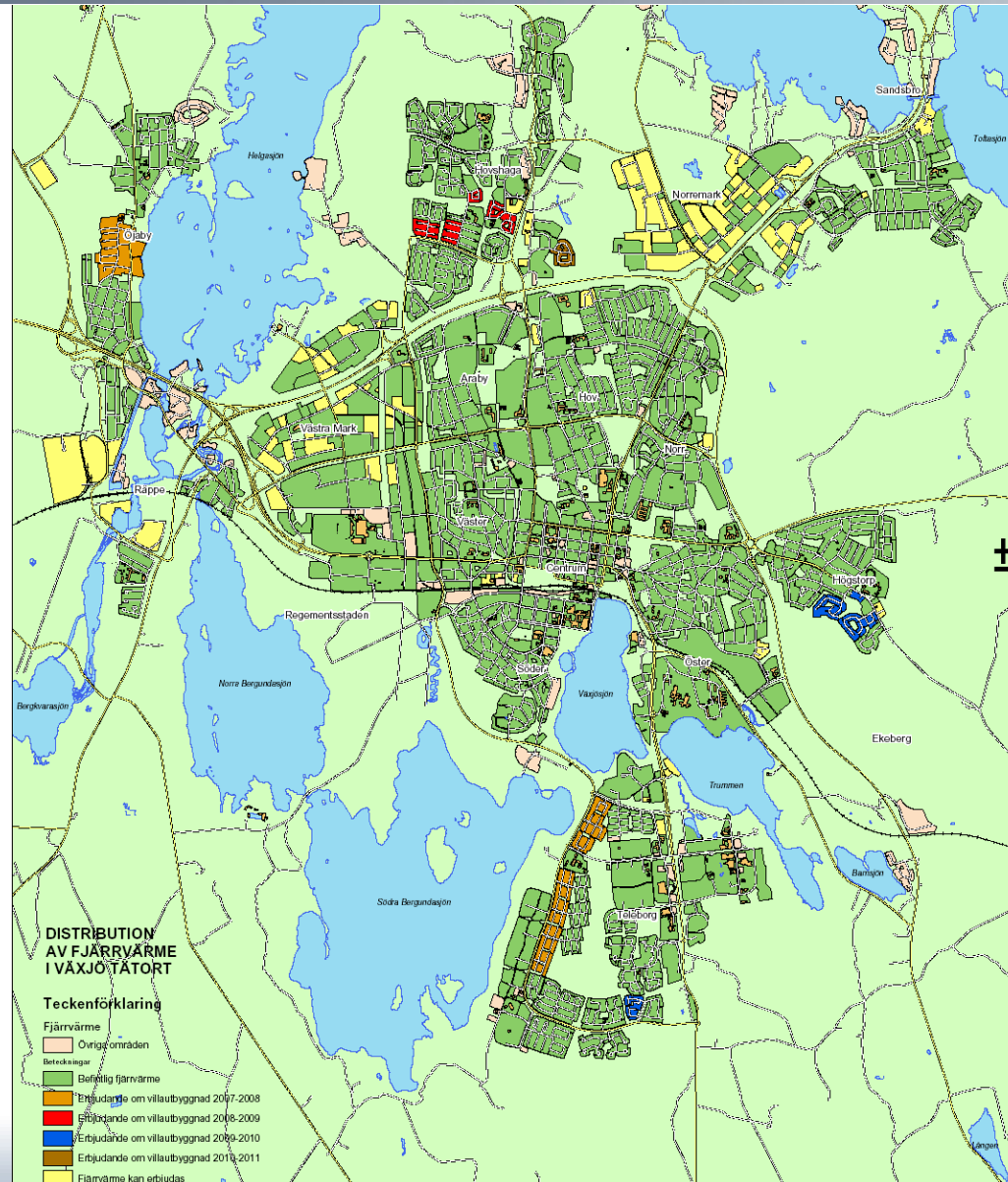
1993 (736 GWh)









2006 (877 GWh)



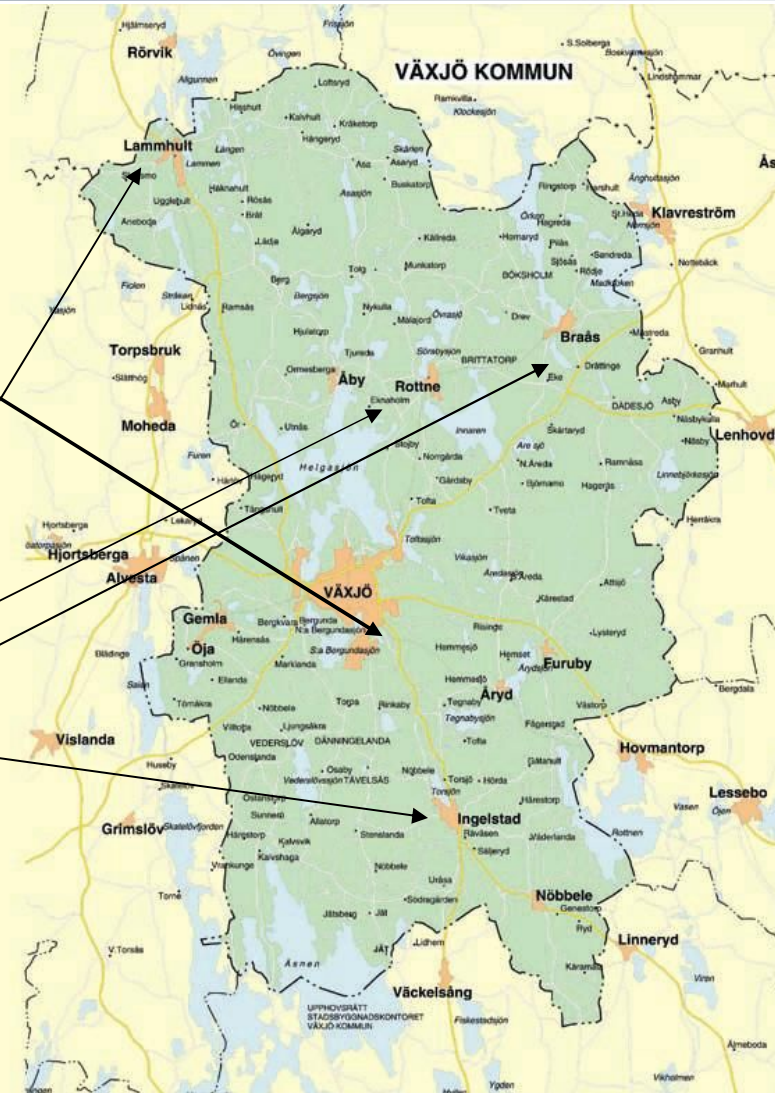
District heating in Växjö



-  Existing
-  Expansion 2007-2008
-  Expansion 2008-2009
-  Expansion 2009-2010
-  Expansion 2010-2011
-  Available

**Large-scale bioenergy
CHP plant (Sandvik II) -
district heating in major
parts of Växjö.**

**Small scale district
heating bioenergy plants
in the villages of
Lammhult, Braås, Rottne
and Ingelstad.**



Future projects

- Biogas from biological household waste and sludge in city buses
- 2nd generation biofuels from gasification of biomass waste, DME, FT-diesel etc.
- District cooling
- Joint venture with industry to sell know-how and products, climate protection
- Wooden energy efficient houses – carbon sink, CO2 effective production process



Large companies that want to develop in the greenest city in Europe



VOLVO

ATEA

GETINGE

ALSTOM

ABETONG
HEIDELBERGCEMENT Group



ROTTNE Industri AB

Other benefits than environmental

- New jobs in the whole bio-energy chain
- Domestic fuel makes us less vulnerable
- People get comfortable heat and fuel for low price
- Companies develop on a fast growing market
- The university's bio-energy centre
- PR - environmental tourism and technical visits
- Society prepared to leave the fossil based economy for the bio based economy

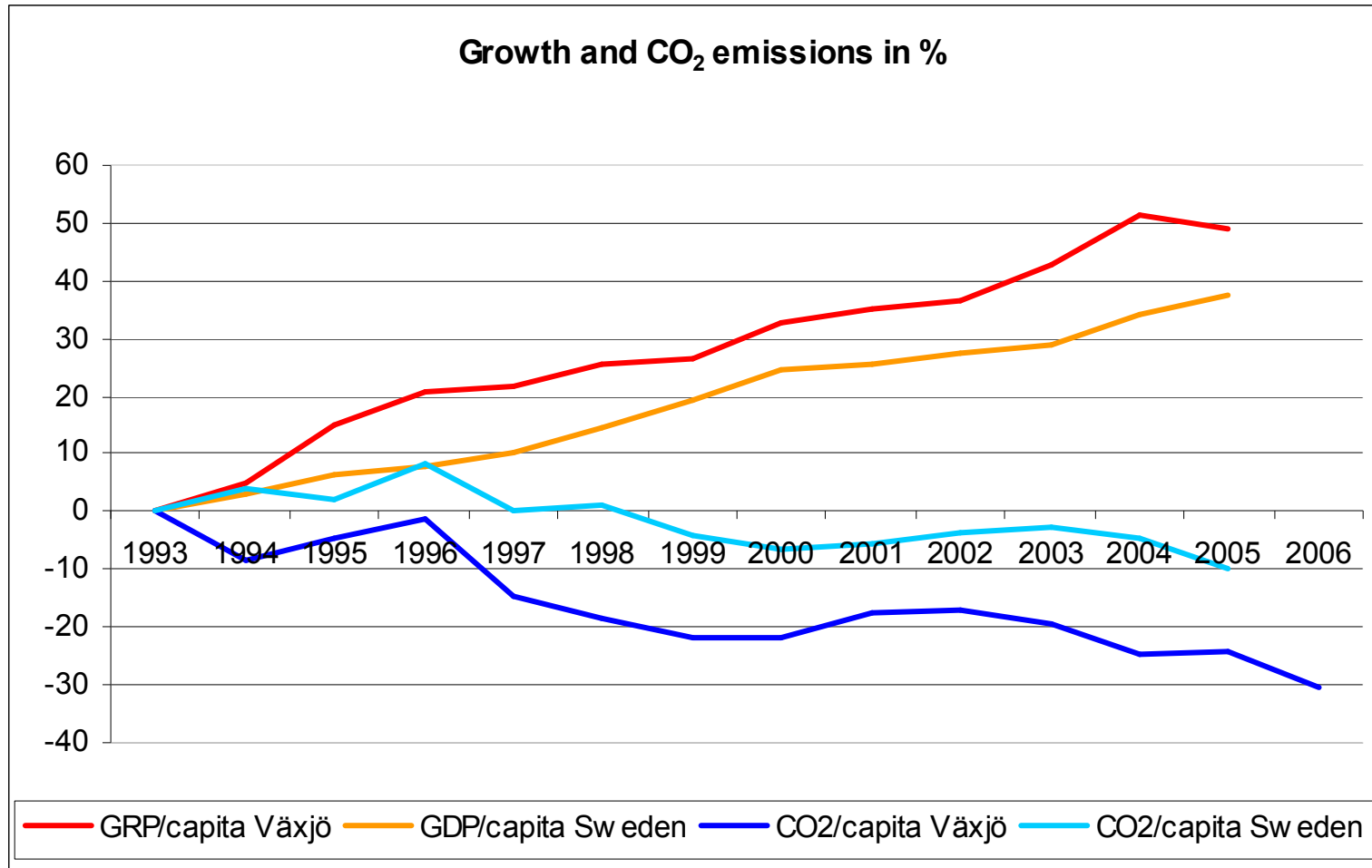


Advice

- Dialogue with and involvement of with industry, university, NGO and citizens
- Set measurable and long term goals
- Strive for political consensus to achieve long term stability



Växjö and Sweden has decoupled



Thank you for listening!



For more information

www.vaxjo.se

www.vaxjo.se/english

www.msnbc.msn.com/id/21134540/vp/24243707#24243707