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Gotland

A Sustainable Island in the Baltic Sea

Inverness 25 September 2009. Bertil Klintbom, Municipality of Gotland

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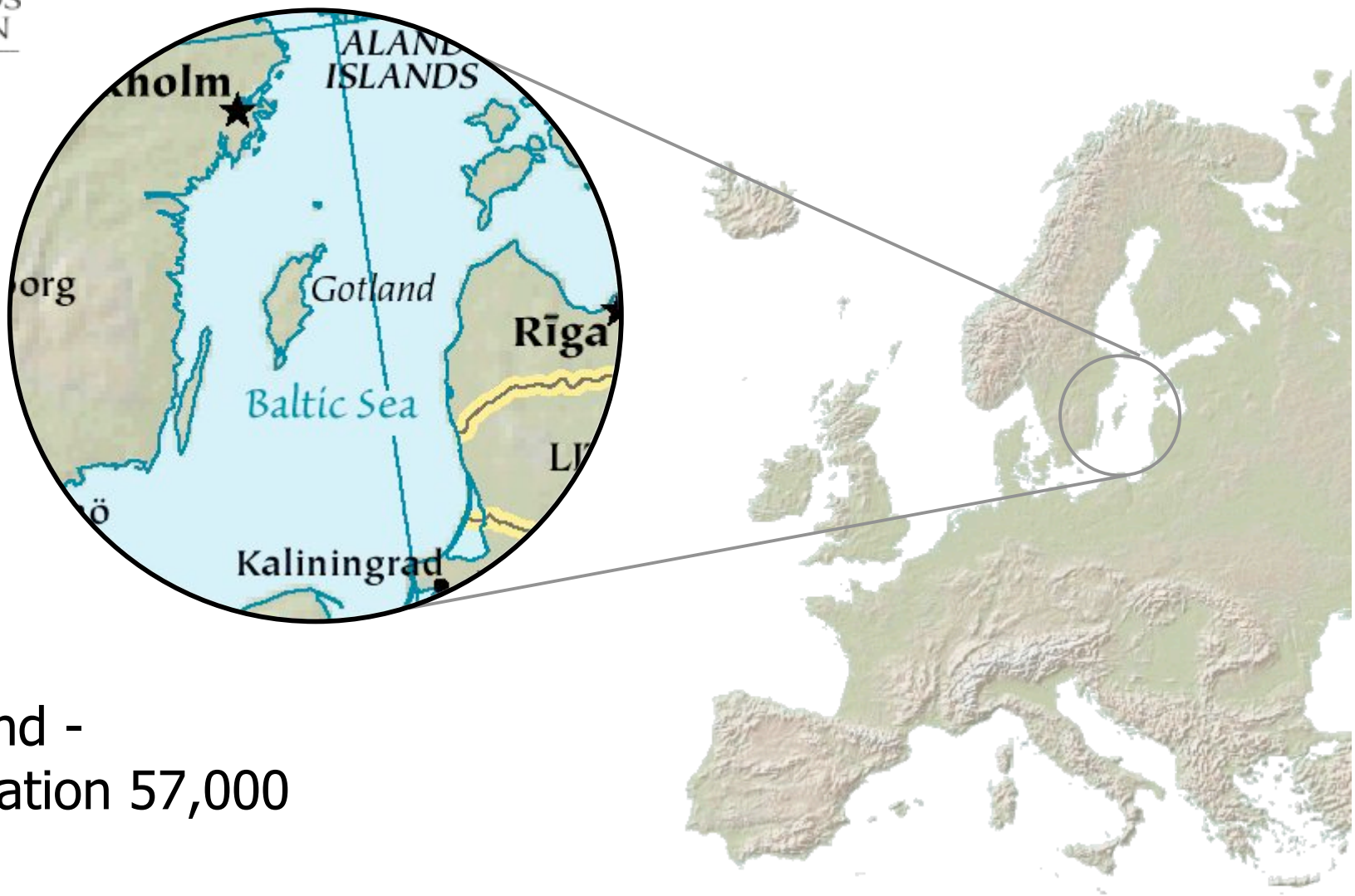
In the Baltic, where?



Gotland -
Population 57,000

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Some energy facts about Gotland today

- Total energy consumption is 4400 Gwh/y
- The islands oil import is decreasing
- 65% of the energy use comes from fossil fuels
- The two main users of fossil fuel is the cement industry and transportation
- Tourism increases the population during summer

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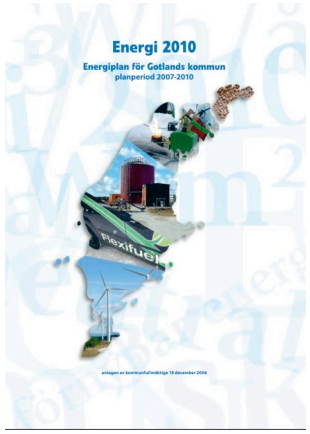

The political process

1992 Rio Summit -Agenda 21
1994 A 3-year Eco municipality project starts
1996 The first Environmental program approved
1998 Gotland approves the first Agenda 21document
2004 Energy Plan 2010 approved
2007 Revised Energy Plan 2010
2008 Revised Environmental program approved
2008 Vision Gotland 2025 approved and implemented

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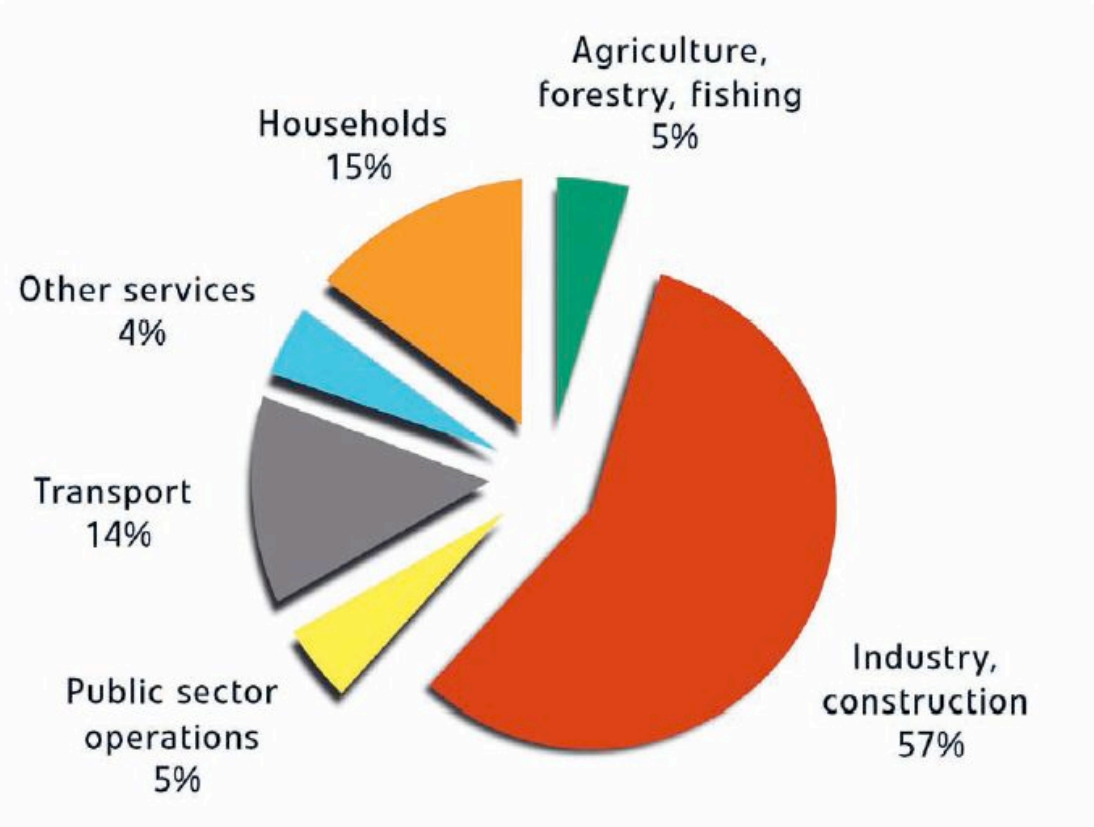
Who uses the energy?



Source: Statistics Sweden's municipal energy balances for 2003

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Transports, a big challenge

Ferry leaving Port of Visby

Several companies has flights to Gotland

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Energy 2010, Gotlands new plan for the future

We believe that the ecological and sustainable society can be reached by,

- reducing use of materials that are found in nature and are non-renewable

- reducing pollution from production and use of energy

- by preserving natures own renewable production and variety

- by developing a society with effective sustainable use of resources to fulfil mankind's basic needs

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Our vision for the future

- The visions foundation is that the entire society will work together and shares the ambition to create a sustainable and ecologically based island
- The goal is a sustainable society with sufficient energy 2025
- The use of renewable energy sources will contribute to society when it comes to social and economical growth for the island
- The work carried out on Gotland will contribute in a positive way and help slow down the climate change

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Strategy 2007- 2010

- Reduce the need for fossil fuels
- Organise the need for transports and develop systems for Sustainable Communications
- Lower energy needs in buildings
- Technical equipment should be chosen carefully

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Figures set out for 2010

- Maximum fossil fuel used for electricity, heating and transportation shall not exceed 55%
- Installed Wind energy systems shall reach at least 160 MW
- District heating shall use at least 95 % renewable and recycled energy sources
- The amount of renewable energy used for transportation shall as a minimum be 8%.
- A new vision for 2025 shall be approved with ambitious targets

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Renewable Energy on Gotland

Solar Power

Bio Energy –Wood chips

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Biogas, the future for transports?

We believe so and the city buses will run on locally produced biogas spring 2010 and the municipality has approved a biogas strategy for Gotland

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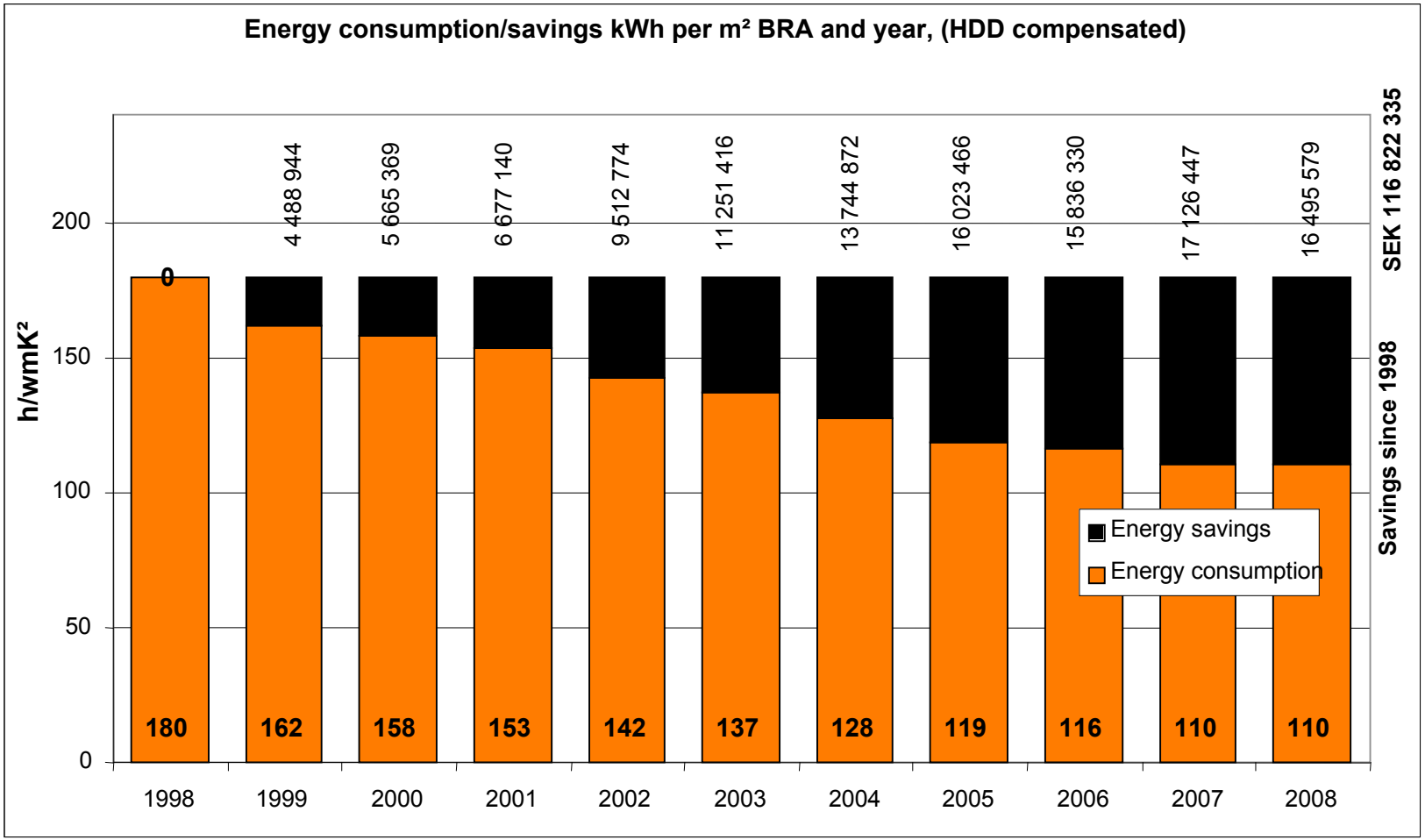
Energy consumption for space heating 1998-2008



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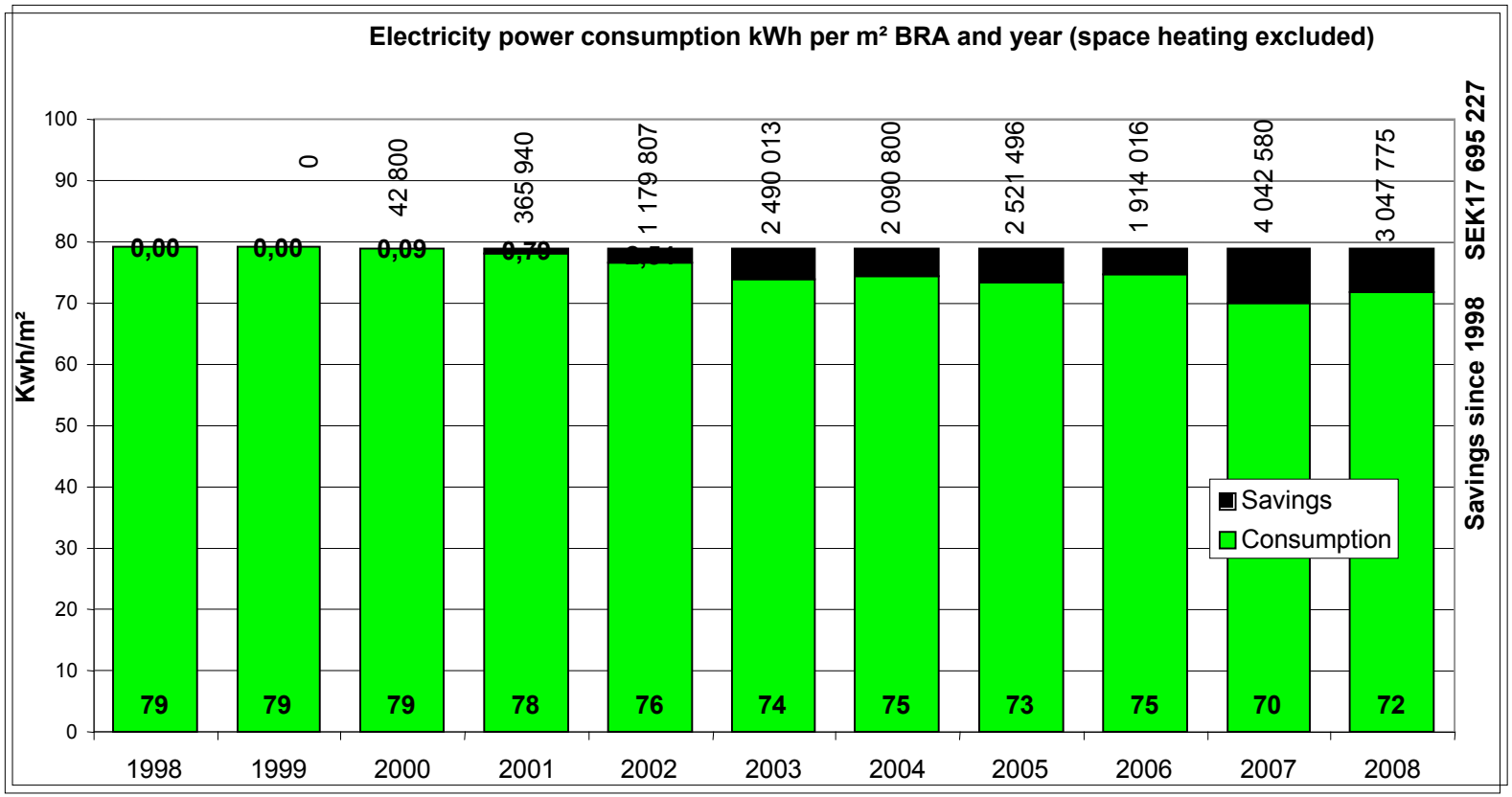
Electricity power consumption 1998-2008



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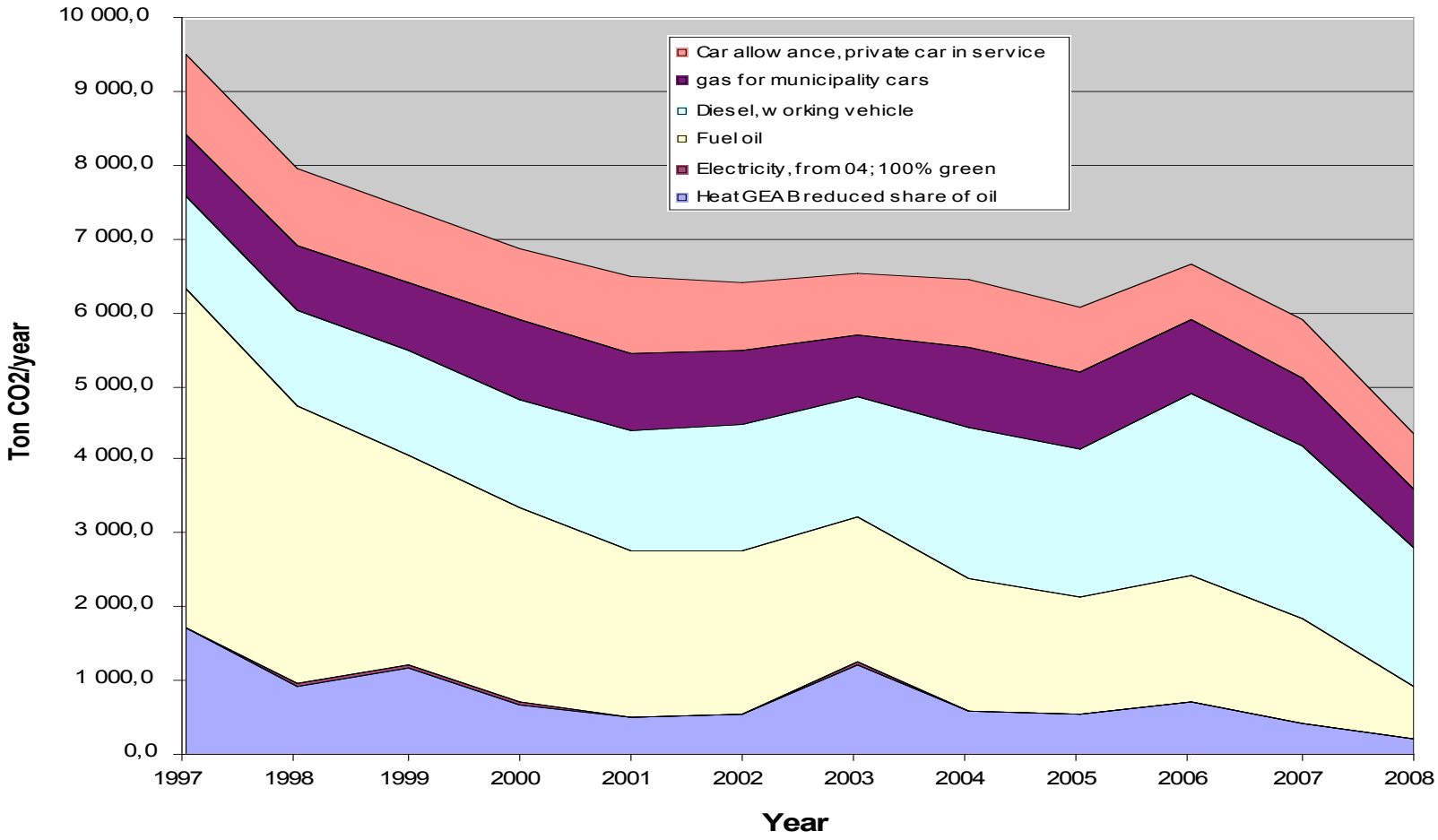
Reduction in CO2 emissions from fossile fuels caused by the Municpalities activities



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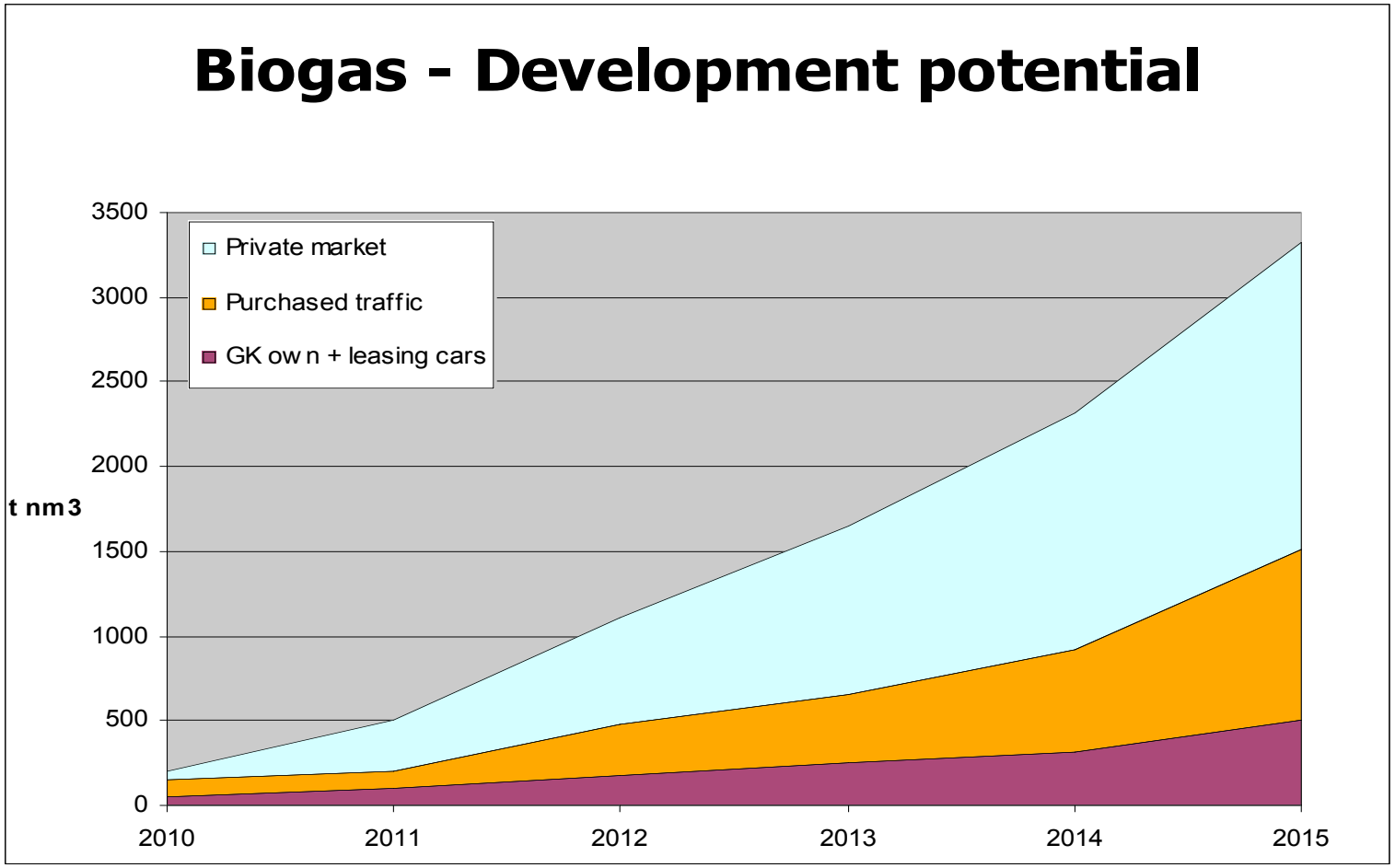
Biogas - Development potential



Year 2012 – minimum 3%

Year 2015 – minimum 8%

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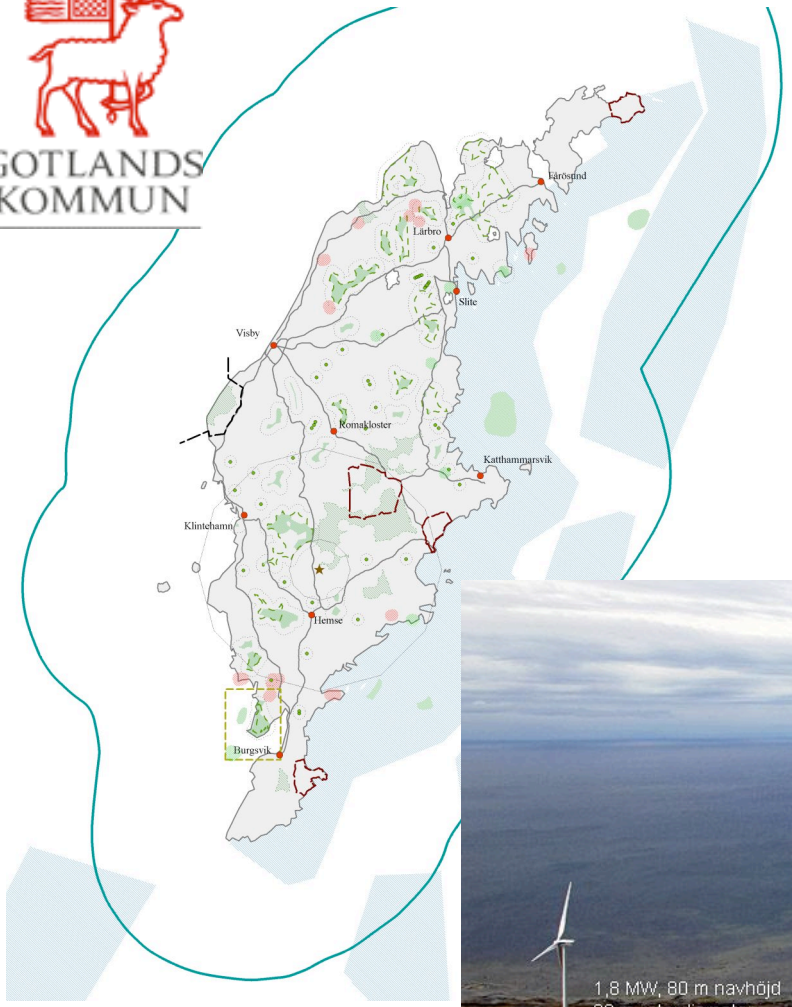

Wind power in the future!

- Target - 2,5 TWh Could mean 500 turbines!

Ferry vessels today

Vision for 2020, Biogas/LNG

- Low emissions
-CO2 reduction with app. 20%
-Biogas locally produced

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www.gotlandsbolaget.se

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Vision for 2030-and beyond, Hydrogen

Emission free transports to Gotland!

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Thank you for your attention!

District heating plant in Visby, capital city on Gotland

www.gotland.se

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