

European Road Transport and Climate Change

National perspectives - activities in Sweden

**ERTRAC Conference
Brussels 2007-09-26
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Climate policy - political priorities

- **The number one environment problem**
- **Global approach essential**
- **Economic means has to be used**
- **New Climate Regime top priority 2009**
- **Broad national agreement needed**

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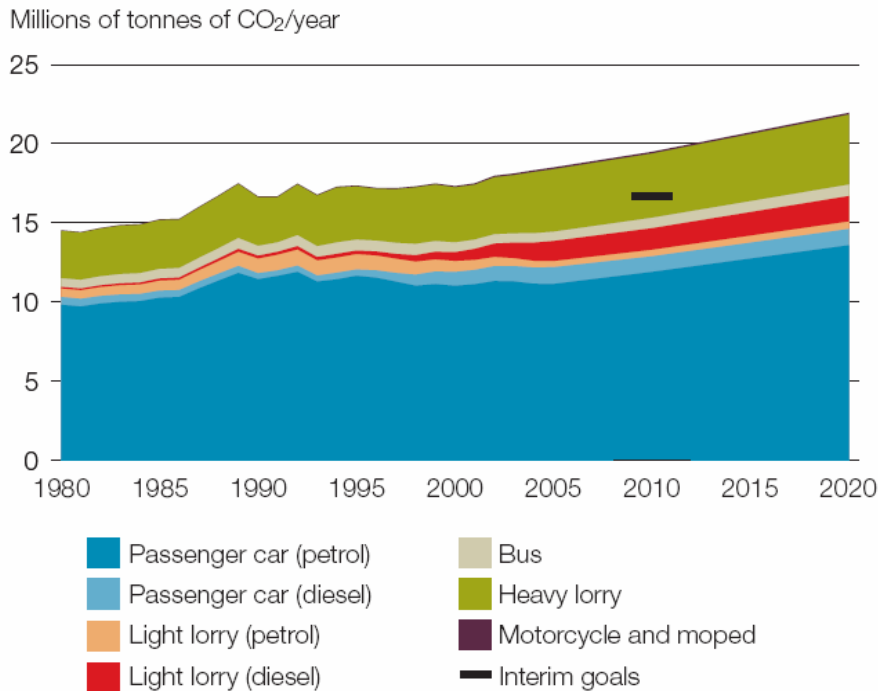
Climate initiative 2006

- **Commission on Sustainable Development,**
- **Scientific Council for Climate issues**
- **all party Parliamentary Committee**
- **Climate Bill 2008**

CO2 emission 1

- **Sweden will meet Kyoto targets**
- **40% decrease of CO2 emission since 1970**
- **7% decrease of CO2 emission between 1990-2005**
- **Transport - 41 % of total CO2**
- **Road transport - 93 % of CO2 from transport**

CO2 emissions 2 - road transport



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Measures to decrease CO2 emission from road transport

- Promotion of renewable fuels
- Promotion of low carbon vehicles
- Promotion of efficient transport systems
- CO2 related research and development

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Promotion of renewable fuels

- No energy or CO2 tax on biofuels 2004- 2013
 - filling stations have to provide biofuels
 - 5 % FAME in diesel
 - 5 % ethanol in gasoline (Sweden wants 10 %)
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- Biofuels stands for 3.15 % of fuel consumption

Promotion of low carbon vehicles

- company cars get 60-80% lower income tax
 - vehicle excise tax based on CO2-emission
 - exemption from congestion tax in Stockholm
 - 85 % of state cars must be low carbon type
 - free parking in big cities
 - 10 000 SEK grant when bying low carbon car
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- 15 % of new cars 2007were low carbon cars

Promotion of efficient transport systems

- **infrastructure investment and maintenance**
- **local environment investment programmes**
- **development program for public transport**
- **development of freight logistics**
- **ECO- driving and lower speed (safety and environmental measures in symbiosis)**
- **Sustainable city, urban and regional planning**

CO2 related Transport R&D

- **pilot plant for ethanol from cellulose**
- **pilot plant for synthetic gas from black liquor**
- **150 MSEK 2008-2010 to develop second generation of biofuels (Budget 2008)**
- **The Green Car project**
- **Emission research program**
- **Excellence Centers for fuels, vehicles etc.**

The future ?

- **Getting worse? Yes!**
- **Help from other sectors? No!**
- **More pressure on road transport? Yes!**
- **Single technological solution soon? No!**
- **Tougher legislation? Yes!**
- **Money from the government? No!**
- **Economic efforts? Yes!**
- **Give up? NO!**

The Future !

What to do in the short run?

- **improve efficiency, efficiency, efficiency!**
- **introduce 2nd generation of biofuels**
- **support public transport**
- **safety and environment win-win measures**
- **legislation and economic means**

What to do in the long run?

- **same, but more transport system efficiency**
- **promote optional techn. breakthrough (R&D)**
- **develop efficient and sustainable cities**
- **?**

A modest proposal...

**ERTRAC
should develop a**

LONG TERM CO2 EMISSION SCENARIO

with corresponding

STRATEGIC RESEARCH AGENDA

ok?

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