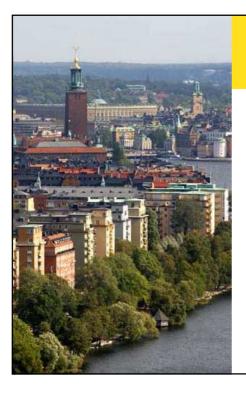
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### Clean Vehicle Strategy in the City of Stockholm

Eva Sunnerstedt City of Stockholm





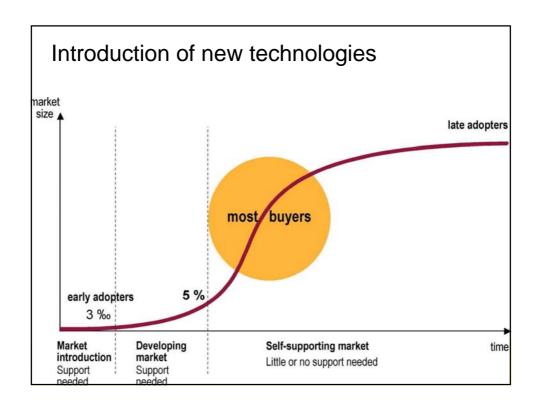
#### Clean vehicle !!??



- Global effects CO2
- Local emissions NOx, HC, PM
- Energy efficient
- Silent



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### How and Why?

- Transport important
- Vehicles are the largest polluters
- Clean Vehicles are not controversial
- Cheap and suitable way to reduce negative impact
- Biogas-waste problem to solve and money to make
- Local and national production of fuel possible
  - creates jobs
- Clean vehicels are just like other conventional vehicles

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#### **Clean Vehicle Strategy**

- Local authorities are key players to start a market development
- Use your procurement power
- Introduce step-by-step
- A long term perspective is necessary
- Incentives are very helpful
- Subsidies and tax relieves may be needed initially

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## 2) Demand clean vehicles in the city fleet

- The Stockholm City council has decided:
  - All new vehicles that are bought to the city fleet in Stockholm should be clean
  - 100 % clean vehicles in the city fleet by 2010





## 3) Work to overcome market obstacels

- vehicles
- fuelling stations
- service & maintenance
- national and local regulations
- incentives
  - free parking
  - no congestion charging
- information
  - web-site
  - newsletter
  - test fleet
  - sales promotion





# 4) Demand clean transport in **PROCUREMENTS** of **ALL** transport services

- i.e taxi, goods distribution





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#### **Political support** important



- Political Steering Group
  - Established in 1994
  - Help and support the introduction of clean vehicles
  - Short cut for fast decisions required in EC projects
  - One from each political party
  - Gives media attention
  - Pushes National politicians



#### **Economical benefits!**

- No tax on renewable fuels 2013
- Lower tax on company cars if they are clean 2011
- Lower vehicle tax for clean cars
- Free parking
- (No congestion charging)
- Clean taxi cars "cut the line" at Arlanda Airport
- Clean cars are demanded in various procurements
- Marketing values
- Spread your risks!
- State funding programs and EC funding for fuel production and investments in vehicles
- 85 % of all vehicles bought by state administrations should be "clean"
- 10 000 Skr for private users buying a new clean car.



6



### **Ethanol cars in Sweden**



Car

#### **Price**

• Ford Focus 1.8 FFV sedan 169 900 kr • Ford Focus 1.8 FFV kombi 173 900 kr • Ford Focus C-max FFV 174 900 kr



• Ford S-max and Mondeo - on its way





• Saab 9 3 Biopower 237 000 kr Saab 9 5 Biopower Sedan 249 000 kr Saab 9 5 BioPower Combi 259 000 kr



• Volvo S40 1.8F 203 900 kr Volvo V50 1.8F 213 900 kr

Volvo C30 1.8F

• Volvo V70 2.0 - on its way



• Peugeot 307, Citroën C4, VW Golf, Renault Megané on its way in 2007

### Biogas vehicles in Sweden



#### **Price incl VAT** Range Volvo V70 Bi-fuel 289 000 kr 270 + 320 km Volvo S60 Bi-fuel 264 900 kr 290 + 340



169 900 kr 400 + 150 VW Caddy Ecofuel VW Touran Ecofuel 234 000 kr 300 + 190 VW Transporter bus 360 000 kr 150 + 370



330 + 170 Opel Combo CNG 163 900 kr Opel Zafira CNG 210 000 kr 350 + 160





 Mercedes E200 NGT 400 000 kr 300 + 720 Fiat Punto Bi-Power 166 000 kr 260 + 740• IVECO Daily CNG 330 + 0





### Electric hybrids in Sweden



#### Bilmodell

• Toyota Prius HSD 260 000 kr

Pris

• Honda Civic Hybrid 237 900 kr



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### City cars in Sweden

- maximum 120 g CO2/km









#### Bilmodell

Citroen C1Citroen C3 HDi

Kia Picanto Eco

Toyota Aygo

• Peugeot 107

Smart Fortwo

#### Pris

86 900 kr 159 900 kr

105 000 kr

95 900 kr

110 000 kr

97 000 kr



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# Growing number of fuelling stations!

<u>Sweden</u>

Gas 80 Etanol 792

**Stockholm** 

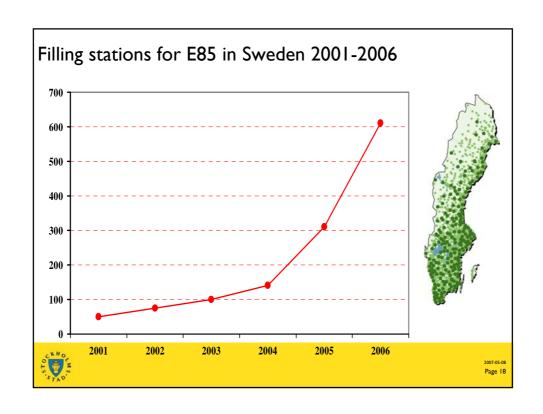
Biogas 10 Etanol 110

From April 2006 all large fuelling stations need to provide one renewable fuel

- 2 400 (out of 4 000) stations in 2009







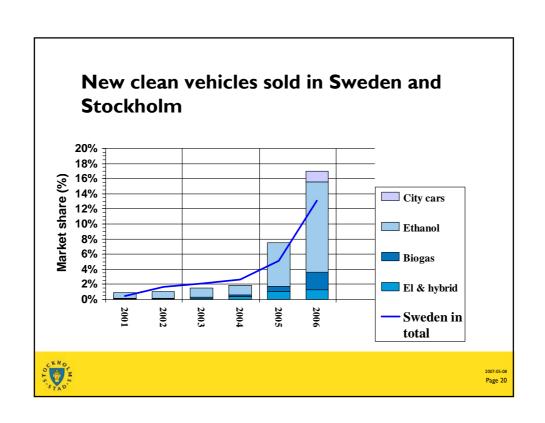


### **Happy drivers**

- 94 % recommend others to drive clean
- Few of no technical problems
- Same need for service as conventional vehicles
- Environmental policy in a company important for the purchase



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#### What is next?

- European co-operation necessary to get a large market
- More production capacity of clean fuels in Europe
- National and European definition of clean vehicles
- Biofuel directive should be compulsory
- Hybrid vehicles running on biofuels
- Heavy Vehicles





### Seeing is believing!

# Welcome to Stockholm for Clean Vehicles and Fuels 2007!



- European Symposium
- Exhibition
- Study tours
- 8-9 november 2007



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### Thank You!

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