

# Clean vehicles & Fuels in Stockholm

**Jonas Ericson**

Clean Vehicles in Stockholm



140.000 clean vehicles  
16 %!

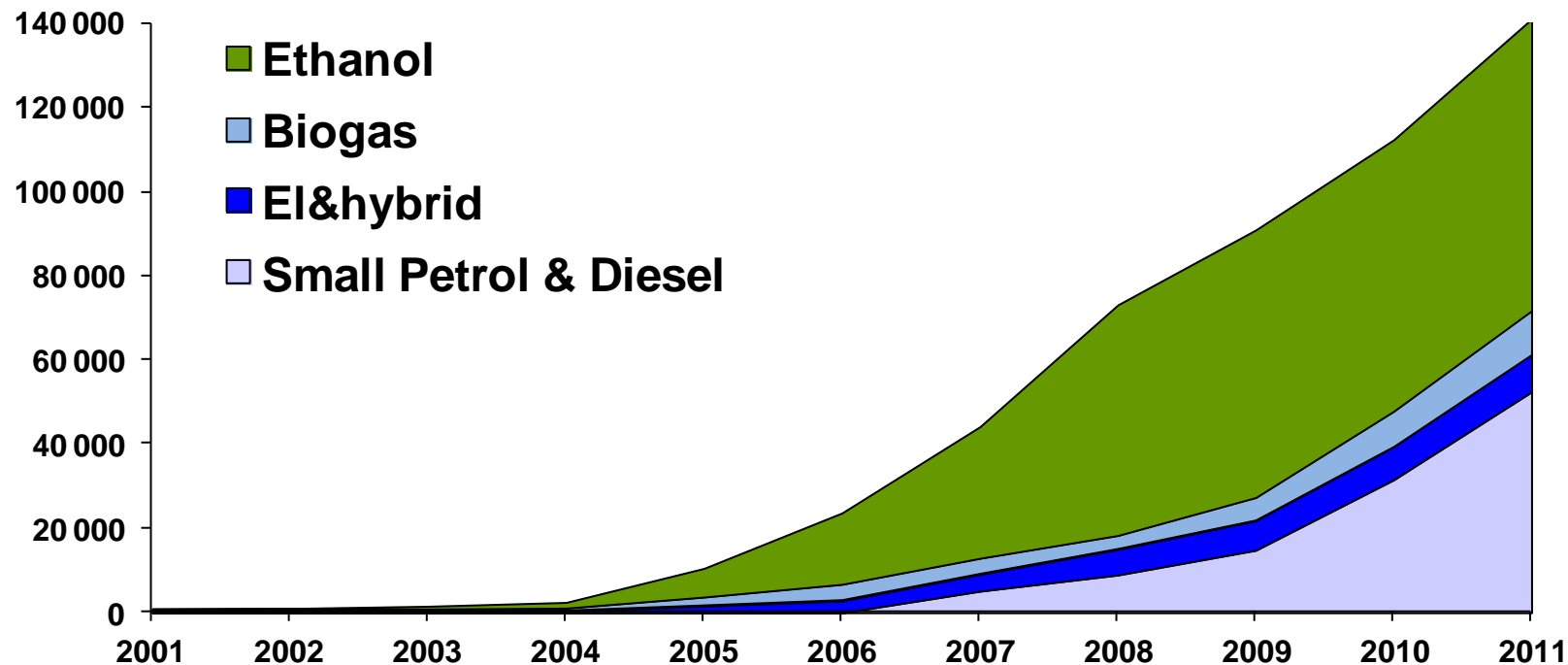




**$\approx 300,000$  ton CO<sub>2eq</sub>**



## No of Clean Cars in Stockholm



**How?**



# Start with Municipal fleet light duty vehicles

## Stockholm City Council decision 2011:

By 2014:

- 100 % clean municipal fleet
- 85 % Clean fuel in the tanks
- 50 % of **all** vehicles sold clean
- 16 % renewables
- 10 % of all trucks sold clean





# Make the cars Joint procurement! available!

- 1994-5 National Electric vehicle procurements (100 +200)
- 1996 International EV procurem. (500)
- 2000 Ford Focus Ethanol (3,000)
- 2002 Clean vehicles (5,000)
- 2008 Ethanol Van (3,000)



- Introduction on market
- Develop new technology
- Introduce battery leasing
- 10-50 % Lower price
- Doubling fuel stations

# Fuels

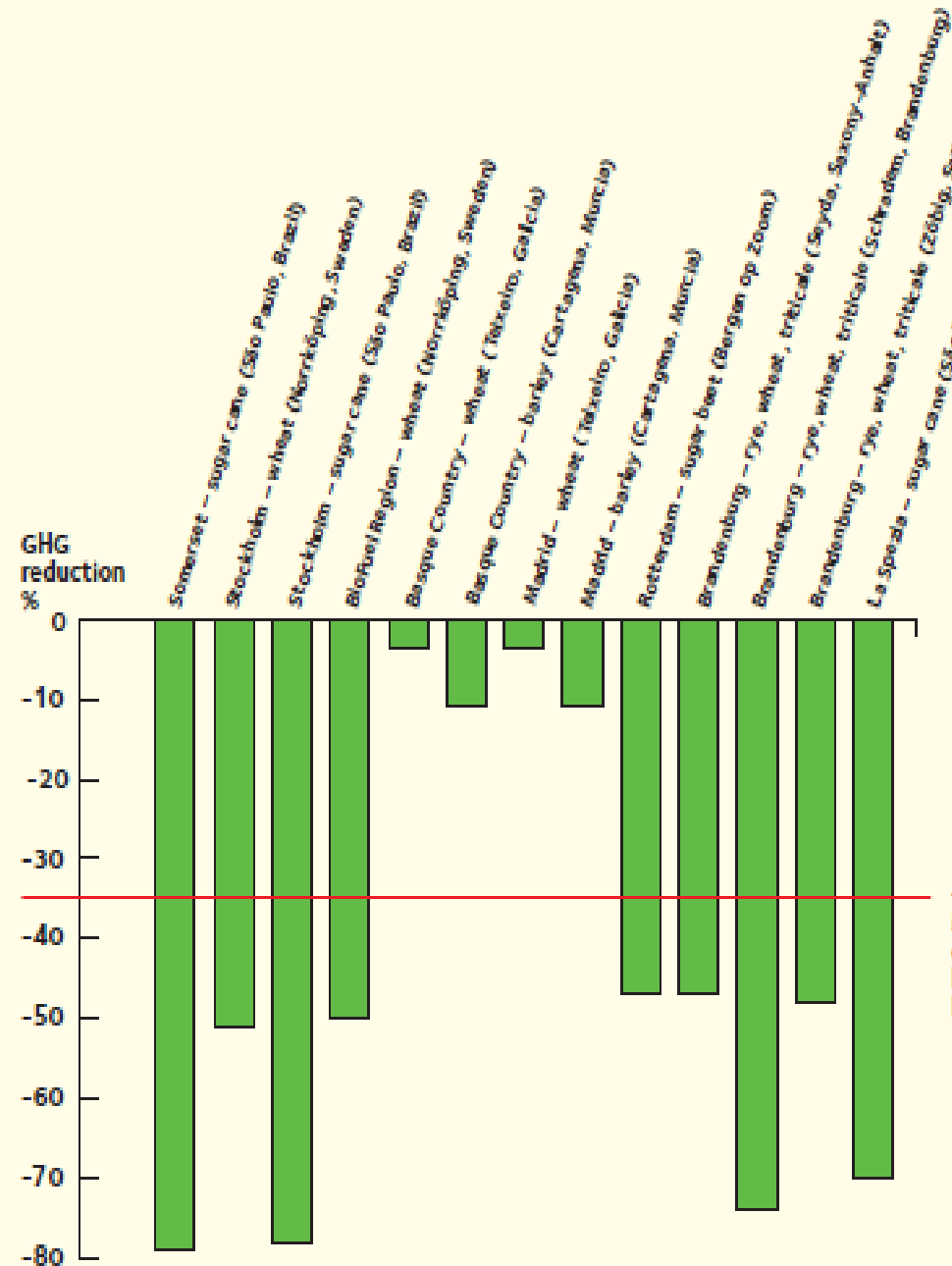
## Biomethane

- Produce biomethane
- Find a distribution system

## Ethanol

- Find good producer
- Promote fuelling stations

Greenhouse gas savings by bioethanol used in BEST 2





# National incentives

Mayors of Stockholm, Göteborg, Malmö met with ministers over and over again - for more than 10 years

## Result:

- Long term tax discount for biofuels/vehicles
- Special discount for Company cars
- Mandatory clean fuels at fuel stations
- Government procure clean vehicles
- Definition of clean vehicles
  - Free parking and other local incentives
  - Grants for Clean Vehicles





# Local incentives

- ✓ No congestion charges
  - ✓ No parking fees
  - ✓ Test fleet
  - ✓ Taxi priority
  - ✓ Subsidies for special vehicles
- 
- Permission to use bus lanes
  - Access to restricted areas
  - Designated parking spaces



**Address the  
market**





# Greening transport through procurement

## Companies working for the city

- Public transport
- Waste collection
- Taxis
- Courier service
- Disabled transport
- School transports
- Sick transports
- Security guards
- Moving
- Internal mail service

The Coca-Cola logo in its classic red script font.The Scandic logo, featuring the word "Scandic" in a red sans-serif font on a light beige rectangular background.The DN.se logo, with "DN" in a large, bold, black sans-serif font and ".se" in a smaller, black sans-serif font.The SVT logo, with "SVT" in a blue, outlined, sans-serif font and a blue flower-like graphic to the right.The IKEA logo, with the word "IKEA" in a bold, yellow, sans-serif font and a registered trademark symbol (®) to the right.The DHL logo, with the letters "DHL" in a bold, red, italicized sans-serif font on a yellow background, with horizontal lines on either side.

**Analyse the market –  
find potential adopters**

- Coca-Cola
- Scandic Hotels
- Dagens Nyheter
- Swedish television
- IKEA
- Danzas

”At least one clean vehicle”

# Information

- Campaigns
- Demonstration events
- Advertising
- Newspapers, TV
- Web
- Telephone advise





# The Results



140.000 vehicles  
16 %!

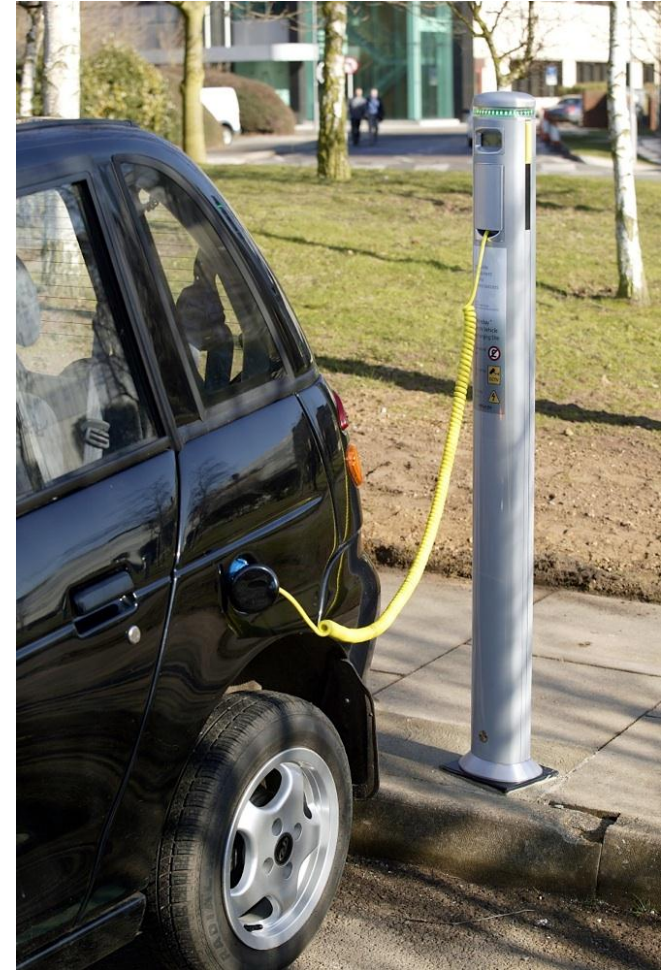


**Going  
electric**



## Set the targets!

- Target: Fossil fuel free by 2050
- Vision "Electric Vehicle City 2030"
  - *City traffic almost emission free*
  - *Access to recharging where needed*
  - *Renewable or CO<sub>2</sub> free electricity*
  - *Stockholm sets an example in terms of electric vehicles and recharging infrastructure*
- Strategy for electric vehicles
  - *Actions for city administrations to promote EV use*



## Joint procurement!

- 296 organisations buys
- +1,250 vehicles/year
  - 800 cars
  - 450 vans

**Σ 6,000 Electrical vehicles**



## Set the example!

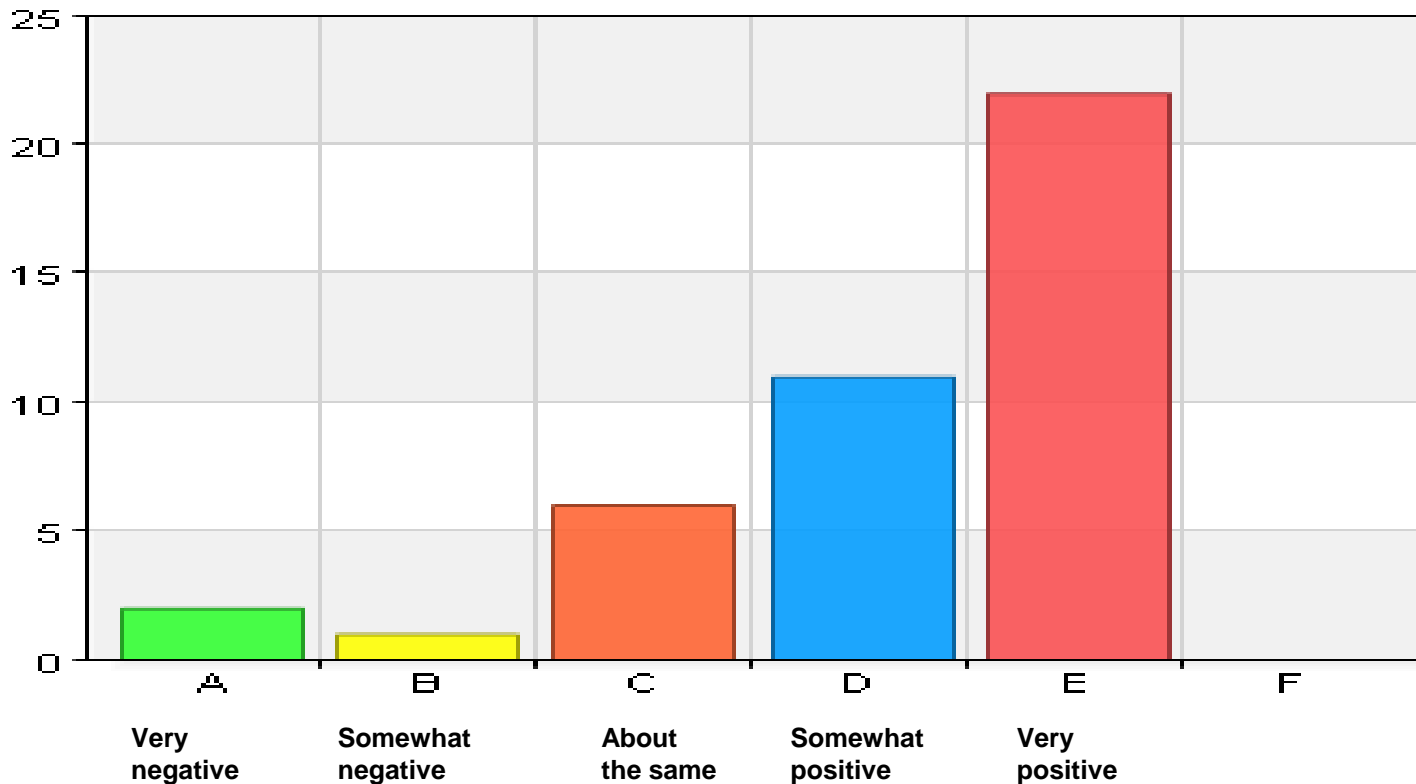
## Testfleet of 50 Evs in operation

- 29 Mitsubishi iMiEV
  - 14 Fiat 500 EV
  - 3 Peugeot iOn
  - 2 Citroën C Zero
  - 2 Volvo C30
- pool cars
  - rental cars
  - service vehicles
  - demonstration vehicles
  - caretaking for sick-at-home,
  - real estate service.

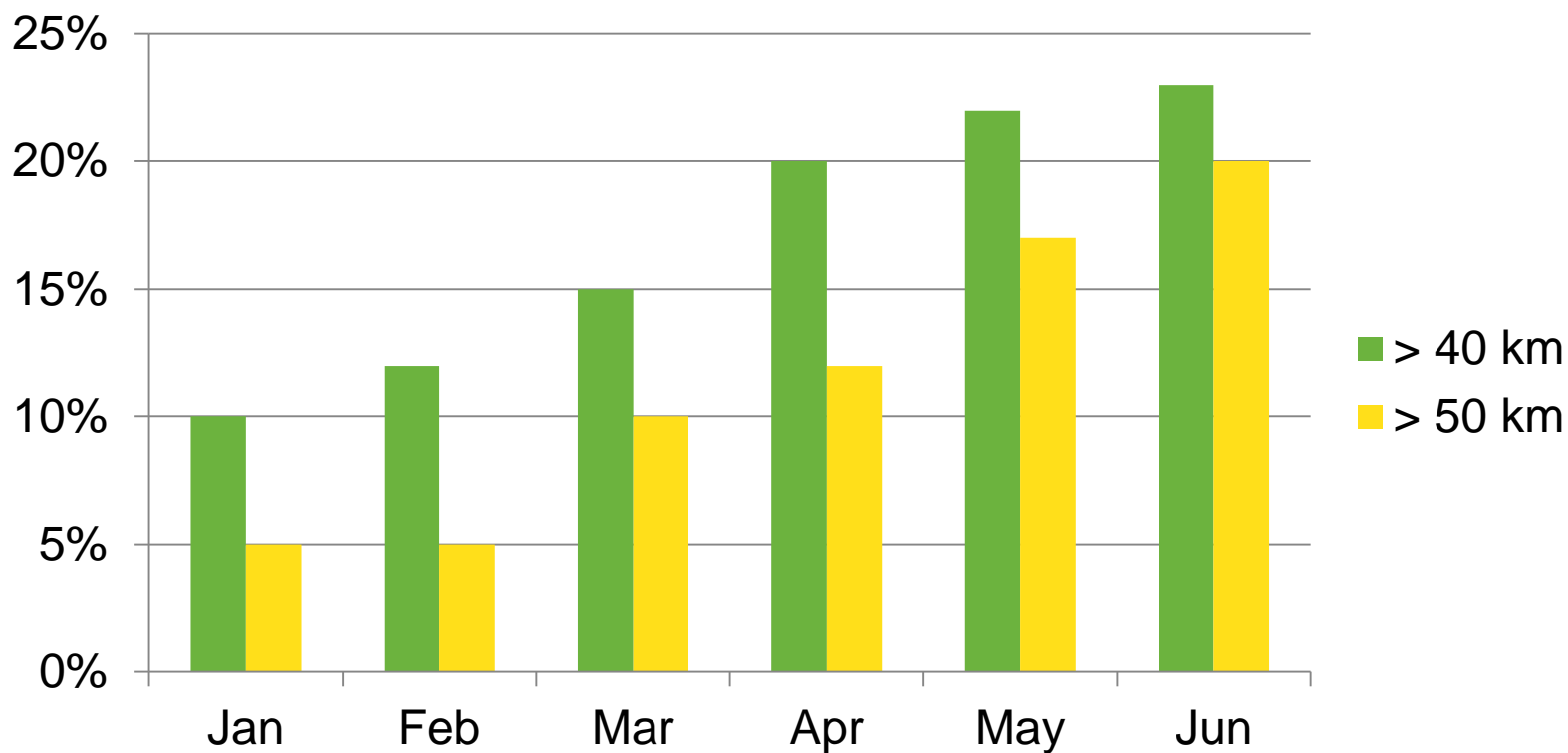




## 78 % more in favour of electric cars today than before



## Trip length







# Clean Vehicles in Stockholm



+ 3 fast chargers at airport  
+ several private normal chargers





Incentives!

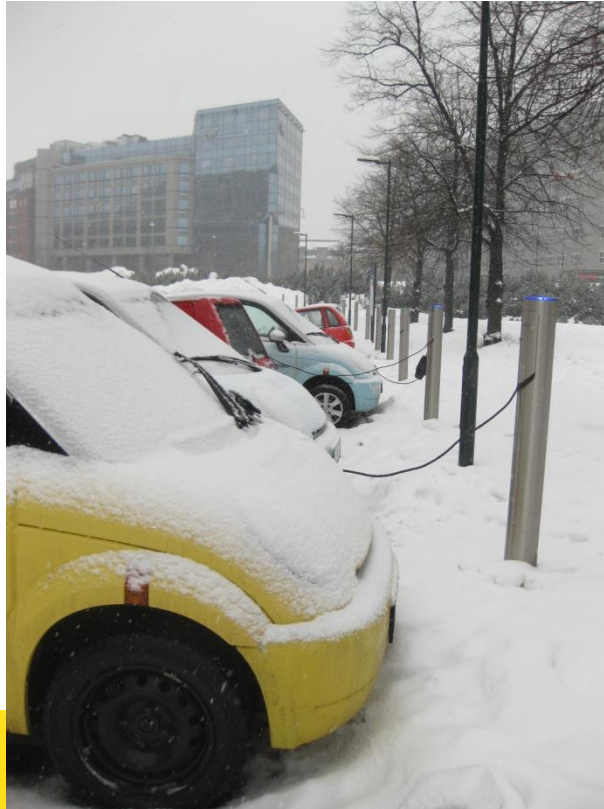
> 10,000 free public parkings

**Learning  
from others**



## Oslo

- Highest number of EVs per capita (except Monaco)
- Incentives!





# Most important in Oslo



# Conclusions

# CITIES are Key players

Big local fleet owner

Fuel producer

Fuel infrastructure

Tax incentives

Local Incentives

Transport buyer

Independent info

City	Central gov	Industry
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# Thank you!

## Jonas Ericson

Jonas.Ericson@stockholm.se

Tel +46 850 828 946