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City of Haarlem and surroundings towards sustainable transportation

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Content

• Reasons
• Why natural gas
• Project goals
• Implementation
Reasons

- Problems with local air pollution (soot, benzene, NOx, etc.) caused by motorised vehicles.

Due to bad air quality
- Increase of health risks
- Buildings and monuments badly affected (estimated costs: EUR 0.7 Million/year)
Modern technology

Czech passenger car Wikov running on compressed town gas – around 1936
Modern technology

Bus running on non-compressed town gas in Prague 1944-5

Emission reduction

Reductions with limited number of vehicles
(<<1% of total):

- CO2: 740 tons/a
- NOx: 11 tons/a
- CO: 12 tons/a
- PM: 1 ton/a

Ultimate aim: 10% NGV’s in year 2020
Implementation

- Decision by the local government to implement NGV in the city itself
- To overcome the chicken and egg problem
- To convince fleet owners, local companies and private owners

How was it implemented

- One project team responsible for the selection of new vehicles
- Set up a specification list for vehicles
- Preference for OEM
How was it implemented

- Refuelling station installed at the sites of partners
- Accessibility to public not first priority
- Training of drivers
- Training for engineers in workshops

Additional project started

- Subsidy for private users
- Public refuelling station needed
- 350 private cars in 3 years time
- In co-operation with local car dealers
Financial figures

Total amount invested: EUR 4 Million
(incl. manpower, training, PR, etc.)

Pay-back times:
refuelling stations 10 years
trucks 9 years
light duty + private cars 3-4 years

Project goals

• If you do want a change just start with yourself, at your own company or in your city

• City of Haarlem and surroundings as an example for other regions in the Netherlands
Driving on Natural Gas

“Today’s fuel for a cleaner tomorrow”

dutCH4

Turn key CNG projects