

# Promoting the Uptake of Gaseous Vehicle Fuels, Biogas and Natural Gas, in Europe GasHighWay



# NGV market in the Czech Republic



**28<sup>th</sup> of January 2010, Malmö, Sweden**

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# Presentation structure

- n Vehicle population
- n NGV number development
- n Filling stations
- n Prices of gas
- n NG cars available
- n Companies
- n Organisation
- n Legal framework

# Current NGV population in the Czech Republic

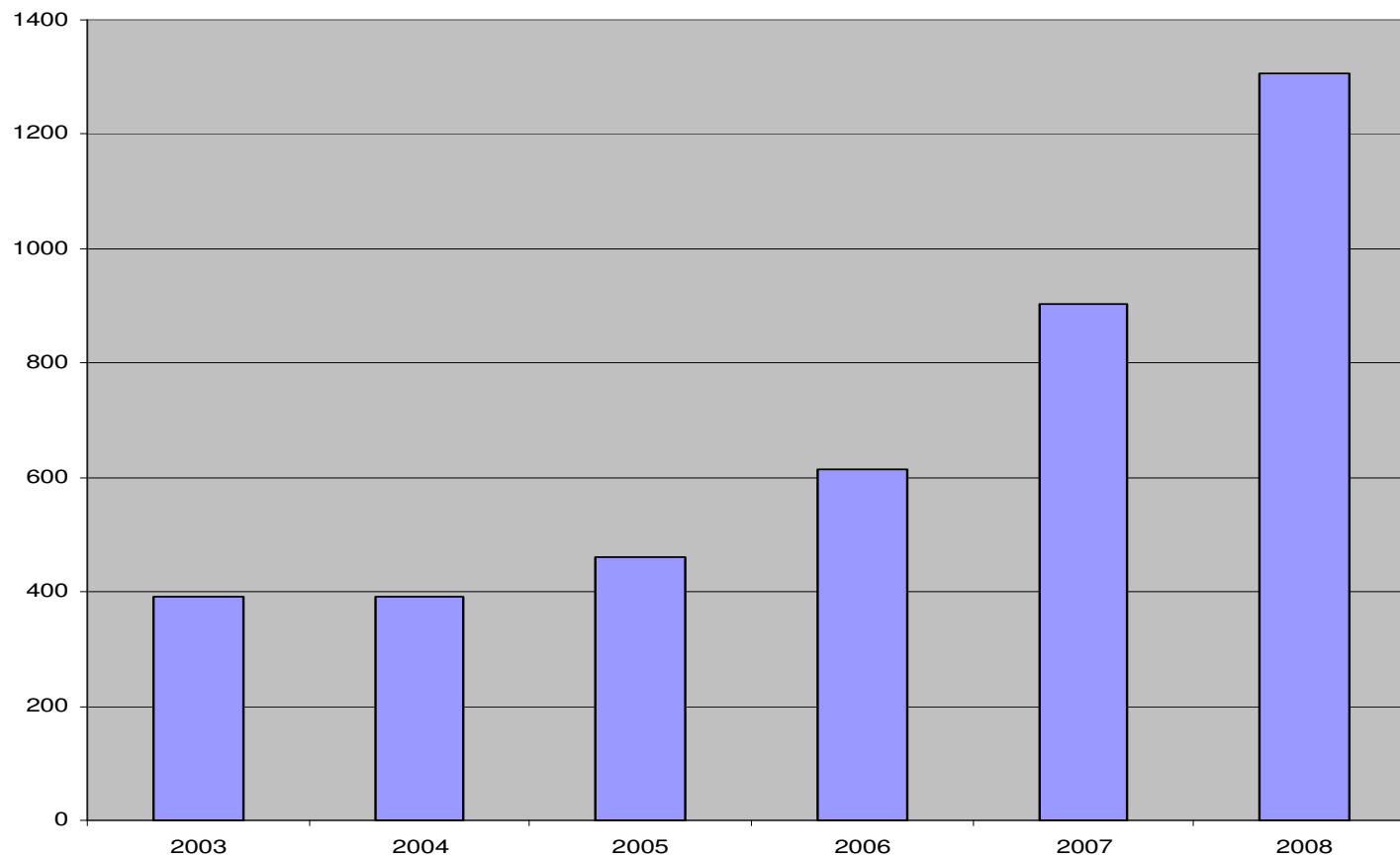
In total 1500 vehicles, out of this number 250 buses

- n Total human population 10,221 mil. people, total vehicles per 1000 people is 492 (compare to Germany 558), total number of vehicles 5,033 mil.
- n In total over 1500 NG vehicles, where 1300 are passenger cars or vans, 250 buses, 17 waste collection trucks
- n This represents 0,03% of NGV share, 0,02% in passenger cars, 1,06% in buses (compare to Germany 0,17% total, 2,01% buses)
- n Main NGV fleets
  - § Transportation companies in bigger cities/towns
  - § Gas companies
  - § Companies in CNG business (Installers of filling stations, producer of cylinders, ...)

# Development of NGV in the Czech Republic

Average year to year change 30% for last 5 years

Czech Republic



# Filling station

Currently 20 public filling stations, additional 3 are in construction



## Prices of gas

- **Running cost on NG are on average on 50% compared to petrol and 75% compared to diesel**
- n Price of petrol 95 Octan = 29,65 CZK = 1,12 EUR/l
- n Price of diesel = 28,07 CZK = 1,07 EUR/l
- n Price of CNG on public stations = 22,50 CZK = 0,86 EUR per kg or 16,50 CZK per m<sup>3</sup> = 0,63 EUR
- n (all price levels as of 7.1.2010)



## Available NG Cars

- All major car maker original vehicles available on the market, about 10 converters with prices from 1.500 to 2.100 EUR

Fiat (8 models): Doblò, Doblò Cargo, Doblò Cargo Maxi, Ducato, Fiorino Combi, Grande Punto, Multipla, Panda Panda

Volkswagen (8 models): Caddy, Caddy Life, Caddy Maxi, Passat Limousine TSI, Passat Variant TSI, Touran, Touran TSI, T5

Opel (4 models): Combo, Combo Van, Zafira, Zafira Turbo

Mercedes-Benz (4 models): B 170 NGT, Sprinter NGT -van, minibus, truck chassis, soon also E 200 NGT

Iveco (3 models): Daily -van, minibus, truck chassis

Ford (2 models): C-Max, Focus



# Companies

- Interesting producer base for NG industry present in the Czech Republic

Producers of buses

- Tedom [www.tedom.cz](http://www.tedom.cz)



- Iveco [www.karosa.cz](http://www.karosa.cz)



- SOR [www.sor.cz](http://www.sor.cz)



• Producers of cylinders

- Vítkovice Cylinders [www.vitkovicecylinders.cz](http://www.vitkovicecylinders.cz)



# Companies

Interesting producer base for NG industry present in the Czech Republic

- Producers of CNG compressors
  - MOTOR JIKOV Strojirenska a.s. (home filling stations 5 m<sup>3</sup>/hour) [www.jikovcng.cz](http://www.jikovcng.cz)
  - Aquacentrum Praha s.r.o. (filling station up to 25 m<sup>3</sup>/hour) [www.cngcentrum.eu](http://www.cngcentrum.eu)



- Filling station installers – diverse smaller companies
- CNG conversions – diverse smaller companies

# Organisation

## New establishment of NGVA in the Czech Republic

- n Newly founded NGVA (Czech) as national technology platform

### Members:

- § Leading CNG industry players
  - § Czech Automotive association (with its 150 members including Skoda Auto, ..)
  - § Czech Technical University, Faculty of combustion engines
  - § Czech Chemical – Technological University
- n close co-operation with Czech Biogas Association
  - n EU subsidy project initiated
  - n Suppliers promotion
  - n Other promoting activities by gas companies

# Legal framework

## Government actions encourage use of NGV in the Czech Republic

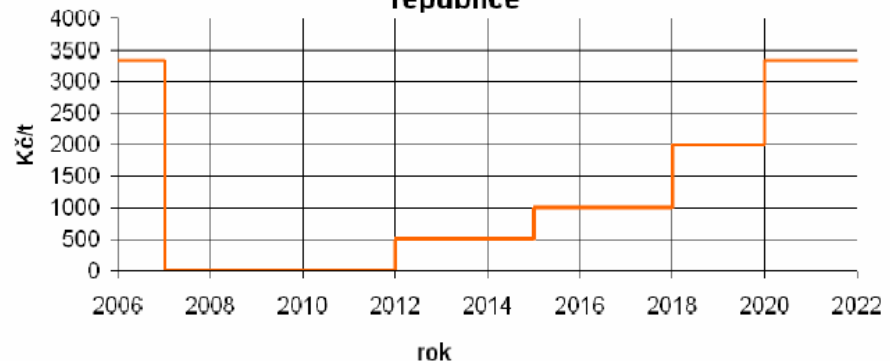
- n Agreement of Government and Gas companies to build by 2020 100 CNG filling stations

- n Stabilisation of consumer tax on CNG

- n zero until 2011

- n at 2020 3,5 CZK/kg = 0,13EUR

Spotřební daň na CNG určený k použití, nabízený k prodeji nebo používaný pro pohon motorů v České republice



- n Subsidy of 50% of extra cost on CNG bus by Government, additional approx. 25% by gas companies

- n Zero road tax for vehicles up to 12 t

- n Program to achieve 25% content on EEV in governmental/municipal use in passenger cars (CNGV are considered EEV)

# NGVA

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## ASOCIACE NGV

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