

Natural gas as a vehicle fuel “the need for speed in Europe”

United Nations Economic Commission for Europe
Geneva, 21/01/2015

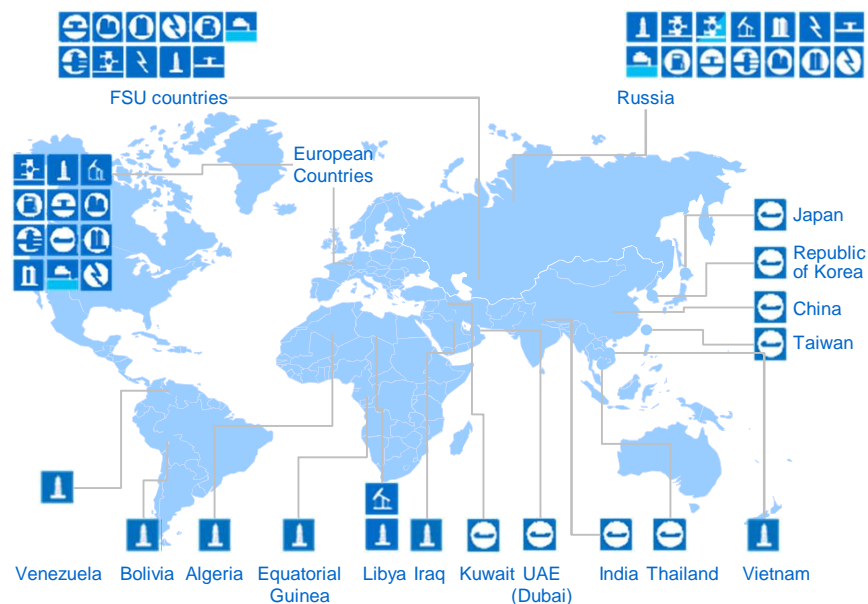
Timo Vehrs
Director Business Development
GAZPROM Germania GmbH

Timo.Vehrs@Gazprom-Germania.de



- The largest natural gas exporter to the EU
- A major player in the international oil trade
- A major player in electric power generation in Russia
- Key promoter of natural gas as a vehicle fuel

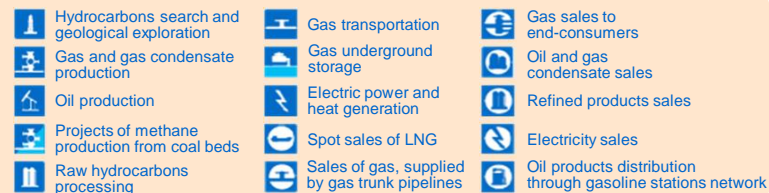
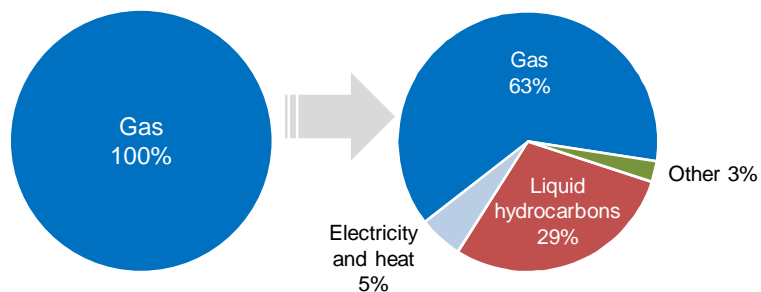
Gazprom activity in Russia and abroad



Gazprom revenue structure

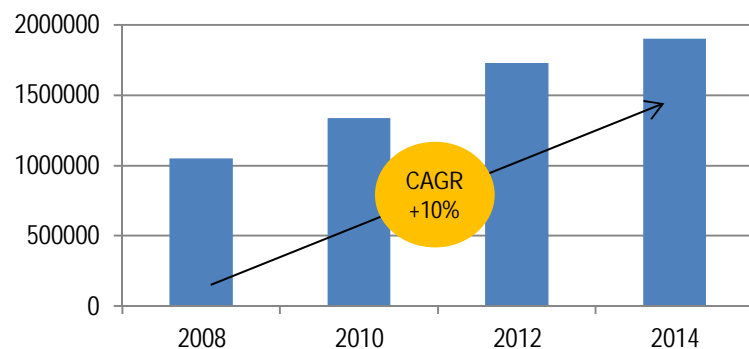
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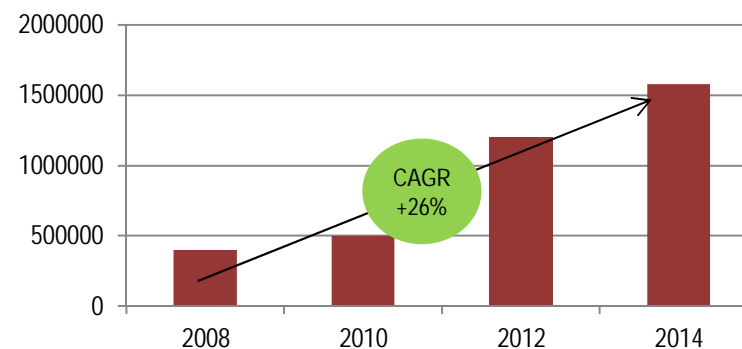


NGV is developing rapidly ... also in Europe?

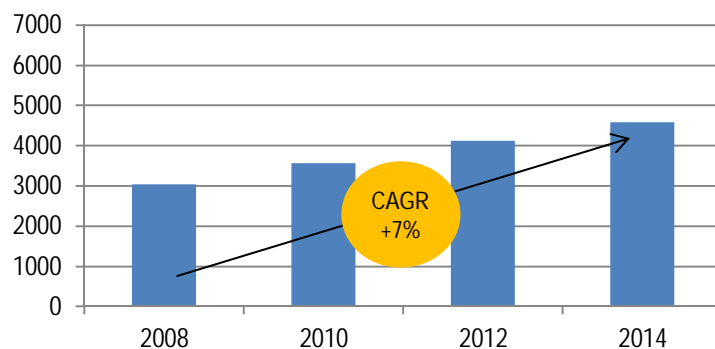
NGVs EU



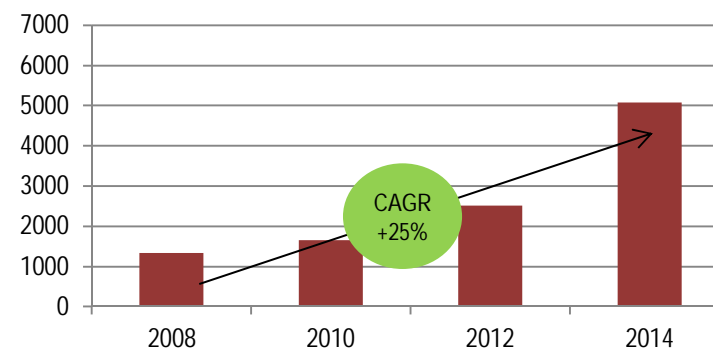
NGVs China



Stations EU



Stations China



Source: NGVA Europe

Europe is in a heterogeneous state of development ... need for coherent supporting action

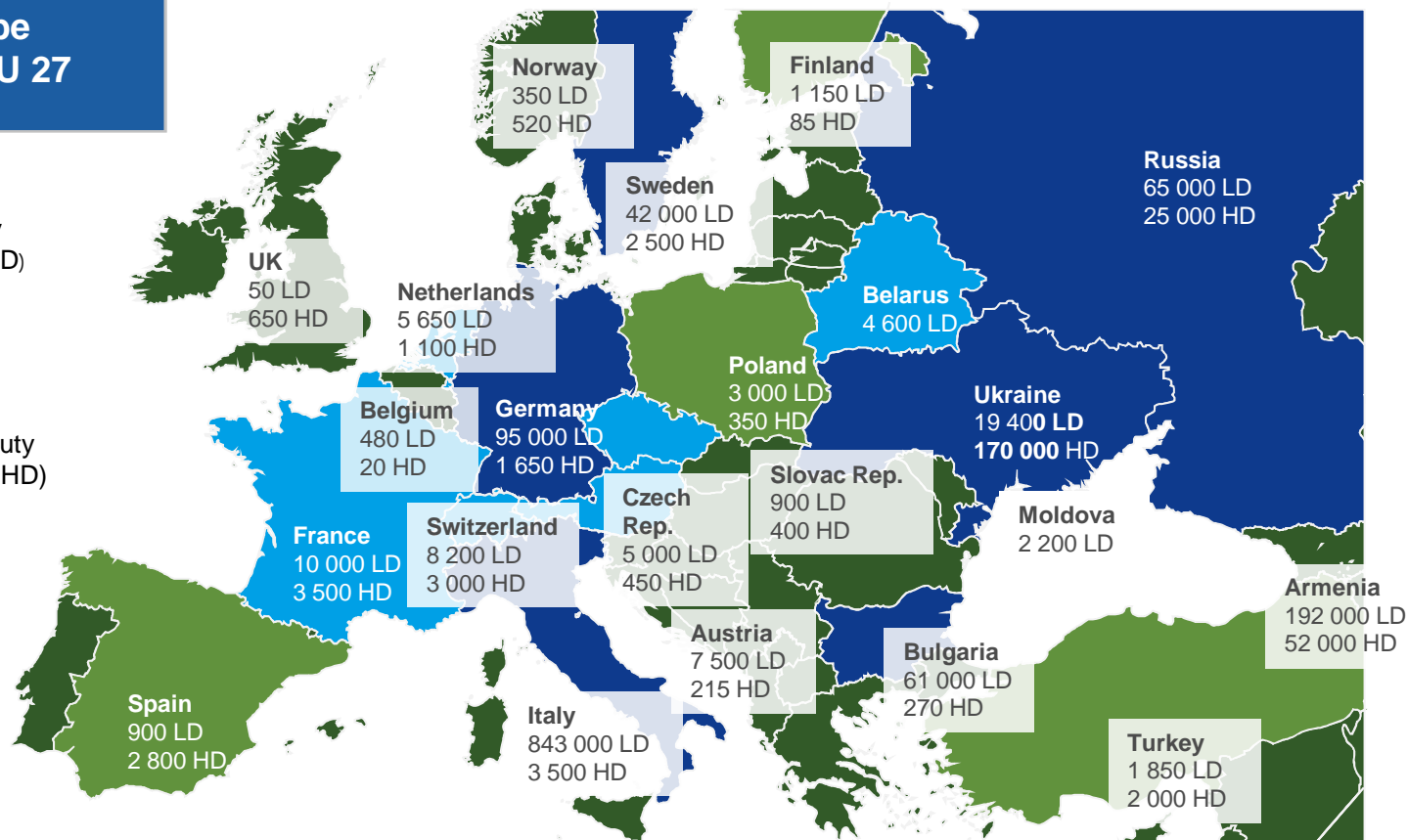
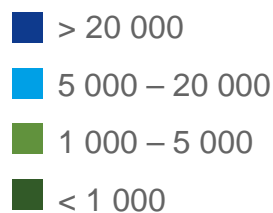
1,9m NGVs in Europe
1,1m NGVs in the EU 27



Light Duty
Vehicle (LD)



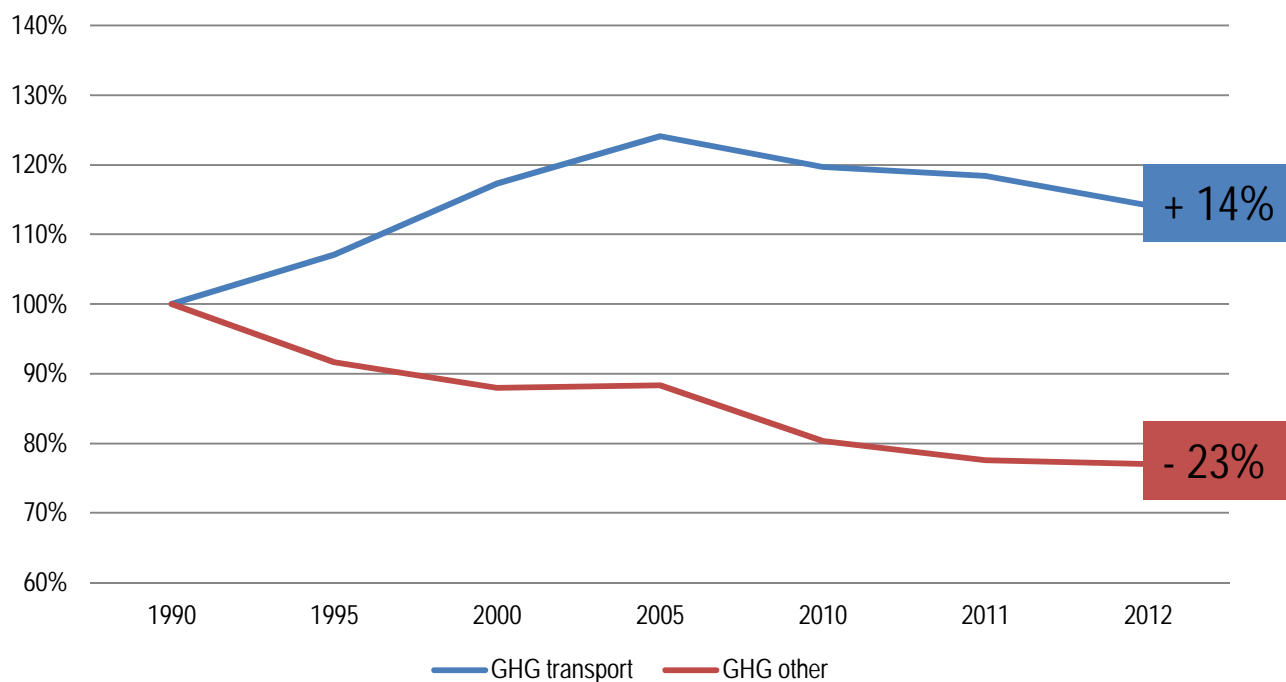
Heavy Duty
Vehicle (HD)



Source: NGVA Europe

Greenhouse Gas Emissions EU-28

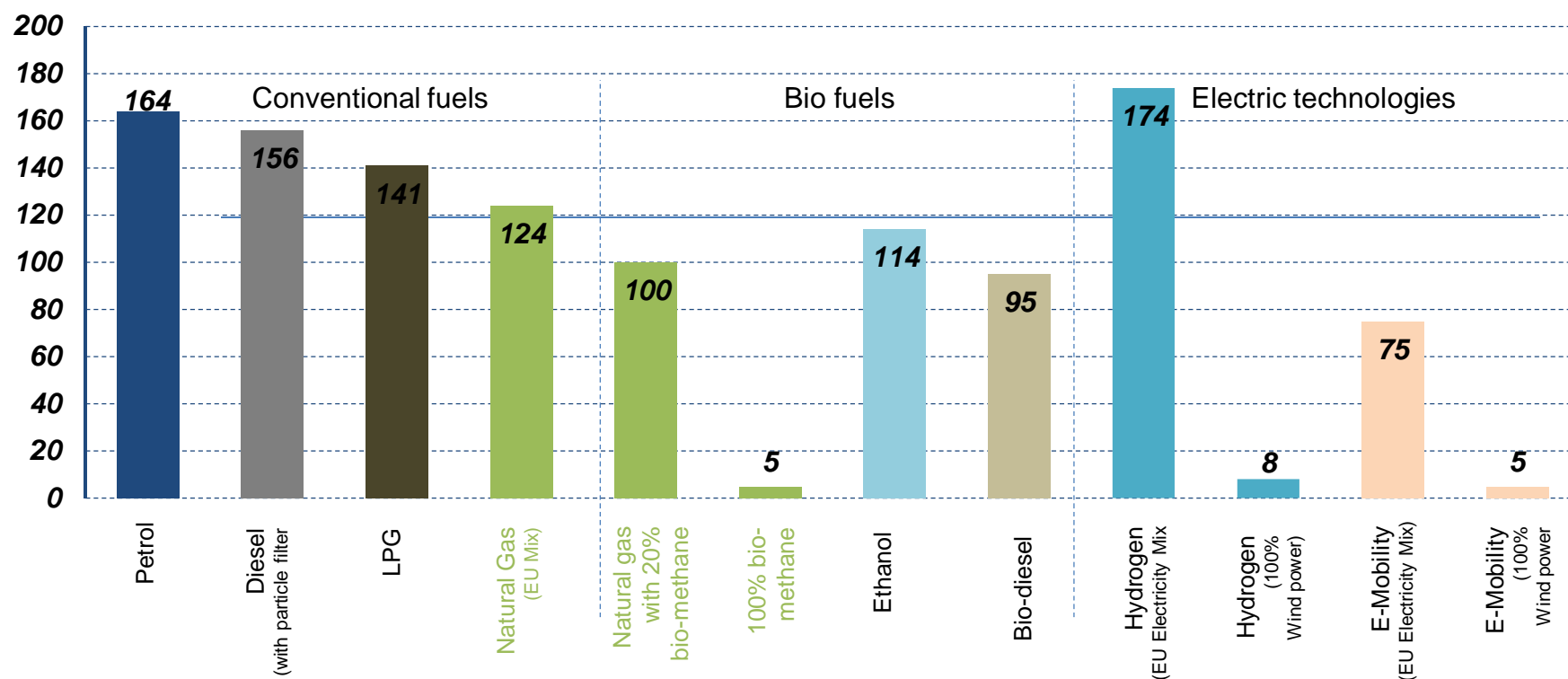
Development since 1990 until 2012 in %, 1990 = 100%



Source: Eurostat

Natural gas offers lowest CO₂ emissions from all conventional fuels

Greenhouse Gas Emissions „from Well-to-Wheel“ of alternative fuels in comparison to diesel and petrol (in gCO₂ eq./km)



* Reference: Petrol engine: 7 l/100 km

Source: German Energy Agency, dena

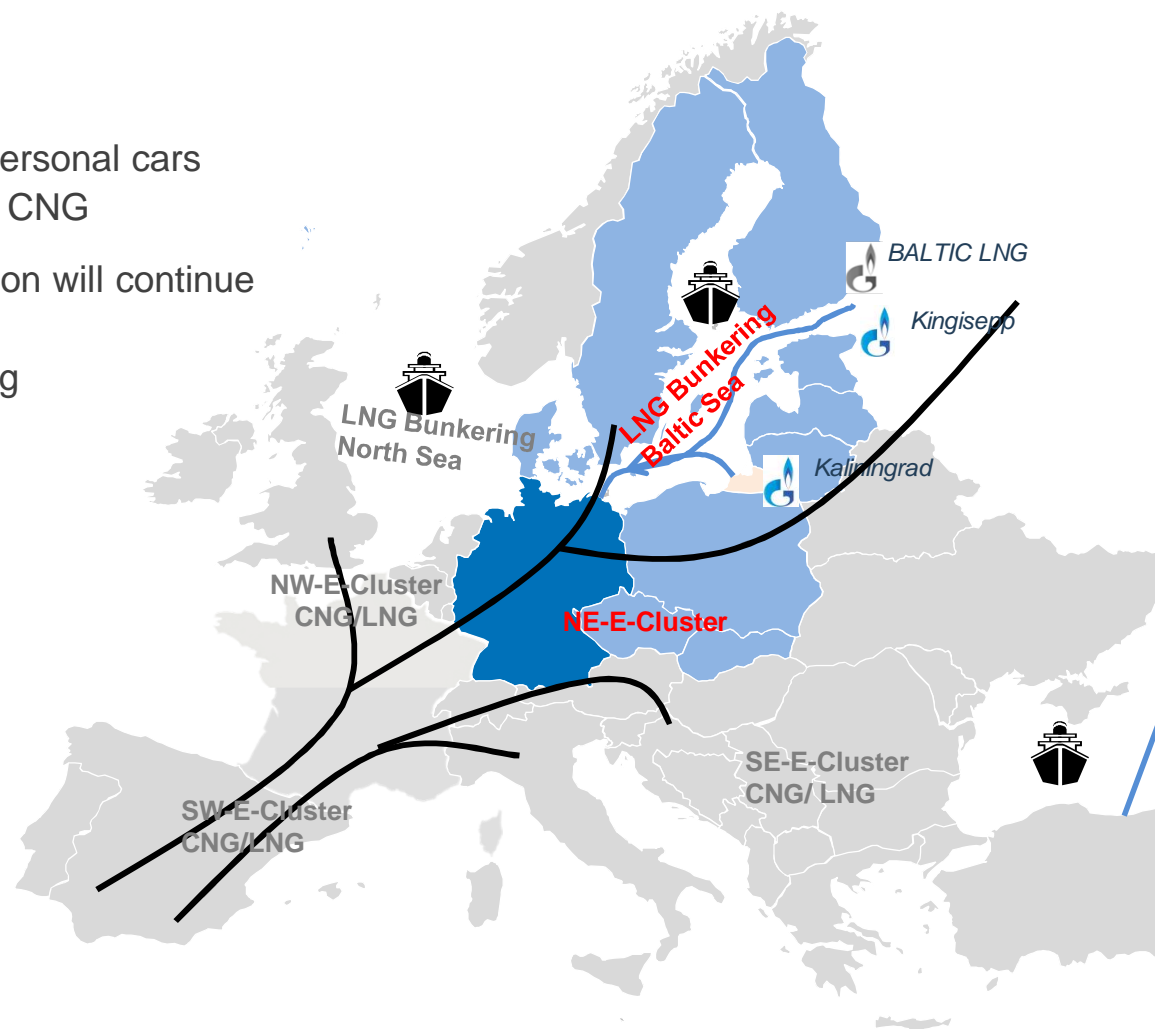
- Light duty vehicles and personal cars with continuing growth in CNG
- Buses and local distribution will continue to facilitate CNG growth, with LNG entering the picture
- LNG growth facilitated by international heavy duty transport and bunkering



Maritime markets

Up- / midstream projects

Existing infrastructure



Support by policy makers and stakeholders needs to result in dedicated action

Beneficial tax & regulatory regime

- Introduce cross border energy tax harmonization and relief on natural gas as motor fuel
- Introduce “high efficiency vehicle schemes”, for preferential treatment of efficient vehicles (equal support of alternative fuels)
- Ensure SECA compliance in the maritime sector (clarify enforcement principles)

Energy Pricing Transparency

- Introduce uniform reference basis for fuel prices at filling stations, establishing consumer-friendly energy pricing transparency
- Introduce harmonized price labeling preferably in gasoline equiv.

Permitting procedures for construction

- Develop and introduce standardized permitting procedures for the construction and operation of ssLNG storage and refilling infrastructure

Alignment with automotive / maritime industry

- Push stronger alignment of automotive, maritime and gas industry for the timely introduction of more competitive natural gas vehicles to customers

Key messages to remember!



Natural gas is clean, abundant and available



Vehicles and refuelling technology are proven, safe and reliable



Market potential for natural gas as fuel for road transport and marine fuel is significant



CNG and LNG are complimentary fuels covering almost all transport sectors



As market is still developing, policy measures are required to motivate investors and end users to switch to natural gas as fuel



Gazprom is ready to contribute to market development by providing investment and reliable supplies of natural gas