

NGV Country Programs in Asia Pacific

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Malaysia

- ~20,000 NGVs including 6 buses
- 46 refuelling stns including 3 mother & 6 daughter
- 85M m³ natural gas sold in 2005/6
- 25% reduction road tax – bi & dual fuel
- 50% reduction road tax dedicated NGVs
- Other tax exemptions and writeoffs
- Govt decree CNG price < 50% gasoline price
- Petronas target 160 stations by 2010
- New Govt capital grants for NGV buses
- CNG 35% gasoline price, 43% diesel price
- 7 conversion manufacturers in Malaysia



Bangladesh

- 50,000 NGVs – cars, Jeeps, 3 wheeler rickshaws, taxis, buses – 6% of total fleet
- 115 refuelling stations + 14 new June 2006
- 21 M m³ gas sales per month (250 M m³ per yr)
- All Govt gasoline powered vehicles converted to CNG by 2010
- CNG price 20% of gasoline price – main driver for vehicle owners
- Conversion kits and cylinders exempted duty
- Support for purchase of ref stn sites
- NGV safety issues need addressing
- Program driven by environmental issues and saving of foreign currency



India

- 335,000 NGVs in 4 states including 11,000 buses in Delhi, and 235,000 3 wheelers
- 321 refuelling stations
- 900 M m³ gas used per year
- CNG approx 1/4 price of gasoline, 1/3 price of diesel



China

- 400 refuelling stations
- 110,000 NGVs including 30,000 transit buses
- About 50% are OEMs
- Some Govt support, but most financial support from municipal govt
- 2700 NGV buses now in Beijing for Olympics
- Lack of pipelines a significant barrier
- Largest use of NGVs is in Sichuan



Korea

- 2006 - 9000 NGVs & 95 refuelling stations
- 2010 – 23,000 & 440 refuelling stations
- 250 M m³ gas used as CNG 2005
- VAT and Acquisition tax exempt (\$167M by 2007)
- CNG price 20% lower than diesel
- OEM buses, garbage trucks & large tractor trucks
- Many conversion equipment manufacturers



Thailand

- 2006 ~12,000 NGVs including 1000 heavy duty
- 60 refuelling stns incl 44 daughter stns
- 7 MMSCFD CNG sales (77million m³ per year)
- 2010 – 500,000 NGVs, 740 refuelling stns
- 2020 – 20% replacement of oil by alternative fuels
- Reduction of tax and duty on vehicles and equipment
- Govt vehicles to be converted
- Old BMTA buses to be converted to NGV
- New taxis and TukTuk must be NGV
- Pilot projects – locomotive, fishing boat, LNG & LCNG



Iran

- 115k NGVs, (including 1746 buses, 12 trucks)
- 137 Refuelling stns, (317 under construction)
- 32.4 M m³ in April 2005 (360M m³ per year)
- Target 600,000 NGVs (public and govt) and 550,000 OEM NGVs by 2011, (local manu)
- \$770 subsidy per OEM
- Lower tariffs for kits and components
- Low interest loans for refuelling stns
- Grants for kit components and conversion
- Many local equipment and conversion manufactures



Australia

- 2160 NGVs (870 buses, 1070 forklifts)
- 37 million m³ per year natural gas used
- Natural gas price favourable

Pakistan

- 1 million NGVs
- 930 refuelling stations
- Abundant natural gas available but lack of distribution infrastructure
- Soft loans and lowered taxes and duties for equipment manufacture and conversions
- 5 local OEMs
- Targetting diesel vehicles



United Arab Emirates

Abu Dhabi

- 1 refuelling stn (max 200 vpd), 50 NGVs (taxis)
- 10 new stations by end 2006

Sharjah

- 1 refuelling stn, 200 NGVs (taxis)



ANGVA

ASIA PACIFIC NATURAL GAS VEHICLES ASSOCIATION

