Autogas: Option for growth in Japan

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Japanese Autogas started about 50 years ago

Carburetors imported from the U.S.A

Autogas fuel tanks

LP Gas vehicle

Autogas Refueling station
Models of LPG Vehicles, lots more

Number : Engine capacity (cc)  * Retrofit

- Toyota Dina 2000
- Toyota Prius 1900
- Toyota Carola 1500
- Toyota Hi-Ace 2700
- Toyota Crown 2000
- Toyota Vits 1000
- Toyota RV 4700
- Toyota Dina 2000
- Mitsubishi Mini-cub 360
- Toyota Coaster 4100
- Mitsubishi Mini-van 360
- *Toyota IQ 1000
Transition of LP Gas consumption in Japan

Unit: 1,000mt

Autogas %
- Electricity
- Chemical feed
- Steel
- Transportation
- City gas
- Industrial
- Residential & commercial

Japanese fiscal year

9.1% 8.8% 8.8% 8.6% 8.6% 8.4% 8.2%

2004 2005 2006 2007 2008 2009 2010

Electricity
Chemical
Steel
Transportation
City gas
Industrial
Residential & commercial

2004: 7825
2005: 7942
2006: 7969
2007: 7933
2008: 7404
2009: 7153
2010: 7230
Stock of LPG Vehicles

Refueling Station

Stock of LPG vehicles by type

Unit: 1,000

- Private car
- Special car & Mini bus
- Truck
- Taxi
Comparison of pump prices in Japan

Autogas: approx. 60% of Petrol and 70% of Diesel

Yen/l

Mar-05  | Mar-06  | Mar-07  | Mar-08  | Mar-09  | Mar-10  | Mar-11  
-------|--------|--------|--------|--------|--------|--------
Petrol  | 117    | 131    | 129    | 153    | 132    | 130    | 147    | 127    
Diesel  | 93     | 108    | 109    | 94     | 112    | 110    | 85     | 89     
Autogas |        |        |        |        |        |        |        |        

Fuel Tax:
- Autogas: 9.8 yen/l
- Diesel: 32.1 yen/l
- Petrol: 53.8 yen/l
Reliable fuel for land transportation

Earthquake and tsunami on 11\textsuperscript{th} March 2011

- Public transportation ceased to function
- Petrol stations suffered from short supply of petrol

Taxies transported passengers and relief supplies as well.

- LP Gas was reaffirmed as reliable source of energy for land transportation.
- People had concern about diversification of fuel for land transportation.
First-class opportunity to present the advantages of LP Gas and the benefits of LP Gas vehicles to the general public.

We displayed the European model of the OEM LP Gas vehicle as an example for explaining the successful growth of Autogas markets both in Europe like Turkey, Germany and France and in Asia, Korea.

**Our option for private motorists**

We displayed a Hyundai station wagon as the European model of the OEM LPG vehicle. (bi-fuel type)

- Hyundai station wagon i-40 for European market
- European conversion kit
- European toroidal LP Gas fuel tank

- Various models
- Reliability (Warranty)
- Enough space
- Affordability

Same level of petrol vehicles
The innovated LPG vehicles are globally accepted as highly ecological vehicles and will become one of the important elements of the “smart community”

LP Gas booth

Powerful image of Autogas

Exceptional Energy

Test ride: Mazda Axela

Venue: Tokyo Big Site
Thank you for your attention