

Kazakhstan CleanTech Revolution

The Need

- Almaty is one of the most polluted cities in the world!
 - 85% due to urban traffic
- Public awareness grows
 - UN program (UNDP CAST)
 - Euro IV regulation on any new car from Jan. 2014
- Kazakh people love their cars.

The Solution – Natural Gas Vehicles

- Many programs to deploy NG stations in Almaty.
 - Intended mostly for busses and taxi.
 - The real goal: private cars
- People want:
 - Cheap and reliable cars.
 - Cheap gas.

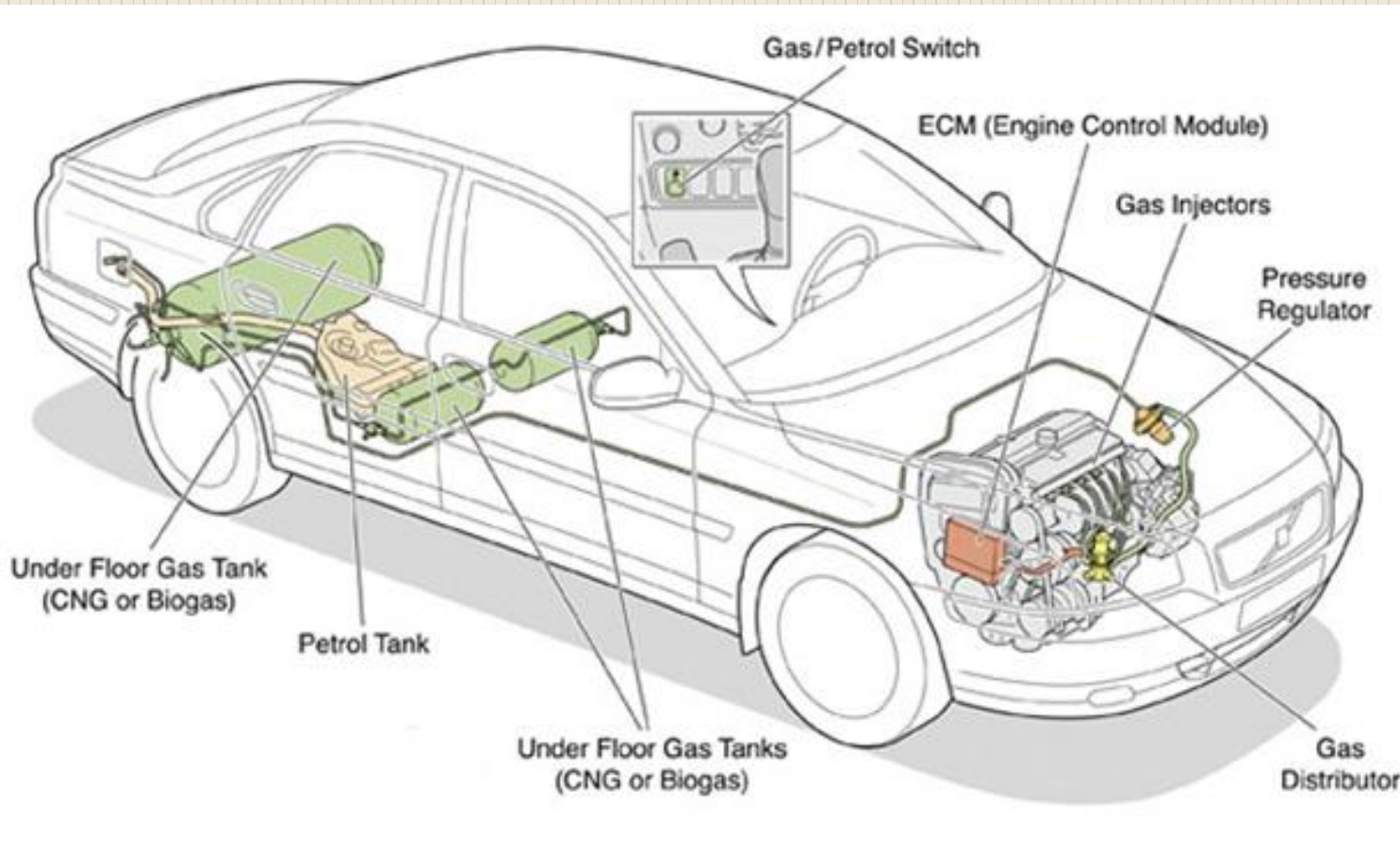
How Natural Gas Vehicles Work?

- Natural Gas Vehicles (NGV) use the same basic principles as gasoline powered vehicles.
- The difference is the fuel – Natural Gas instead of Gasoline.
- In order to use NGV – an additional system must be installed in the vehicle.
- Any car can be converted to run on natural gas.

NG Conversion – In 3 Easy Steps

1. Buy Natural Gas system for your car.
2. Hire a certified installer to install the system in the vehicle.
3. Enjoy driving on natural gas in Kazakhstan.

NGV system scheme



The Natural Gas Tank

- Natural Gas is held in a fuel tank, compressed to 3000 – 3600 psi.
- The tank is additional to the original petrol tank.

Pressure Regulator

- Converts the gas pressure from 3000-3600 psi to around 125 psi.
- Gas injectors then inject the gas and together with the air creates the spark to move the vehicle.

Additional Parts

- Electronic Control Module
 - Controls the NG system.
- Gas / Petrol Switch
 - Driver choose between gas or petrol manually.

The Next Steps (In Parallel)

- Marketing Research.
- Initiation of the project in Kazakhstan.

Project Plan

Marketing
Research

Find NG
conversion kit

Find installer

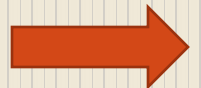
Build a
prototype

Start Mass
Production

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graph LR; MR[Marketing Research]; FNGK[Find NG conversion kit]; FI[Find installer]; BAP[Build a prototype]; SMP[Start Mass Production]; FNGK --> BAP; FI --> BAP; BAP --> SMP;
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Marketing Research

- We would like to learn the following:
 - Determine the potential market depth of conversion to NGV in Almaty.
 - Sellers market analysis:
 - Conversion price.
 - Maintenance price. Is there warranty?
 - What conversion kits are being used today?



NGV system scheme

