Vehicle Emission Control Policy in China

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Main Contents

- Air pollution situation
- Motor vehicle pollution situation
- Environmental policies and measures for motor vehicle
Air pollution situation is quite serious in China, only 3 of 74 key cities is compliant under the new atmosphere quality standard.
PM$_{2.5}$ pollution is serious

China has become one of the most polluted regions of PM$_{2.5}$ in the world, certain areas like Beijing-Tianjin-Hebei, Yangtze River Delta area etc are even more polluted with annual PM$_{2.5}$ average concentration of over 70ug/m$^3$.

Air pollution emissions are highly concentrated in key regions

- account for 14% of national acreage, 48% of national population and 70% GDP
- consume 48% of national coal
- contribute 47% of SO$_2$ emission, 50% of NOx emission, 45% of soot and dust emission and about 50% of VOCs
- Main air pollutant emission level is much more higher than national average level
Public needs for improving air quality

Motor Vehicle Pollution Situation
Rapid growth of vehicle population

Motor Vehicle pollution emissions were preliminary controlled
Motor vehicle composition and emission contribution

Vehicle composition and emission contribution
Vehicle emissions by fuel type

Vehicle emissions by emission standard
Emission contribution of yellow-label vehicle

PM2.5 source composition in Beijing
Environmental policies and measures for motor vehicle

To stress the responsibility of motor vehicle manufacturers
To accelerate scrappage of yellow-label vehicle to release environmental burden

* Phase-our 6 million yellow-label vehicle in 2014

* Basically eliminate yellow-label vehicle in key regions by the end of 2015

* Basically eliminate yellow-label vehicle in China by the end of 2017

To consummate laws and regulations

- Revise “Law of the Peoples Republic of China on the Prevention and Control of Atmospheric Pollution”
- clear responsibilities and works of each department
- stress responsibilities of manufacturers
- treat vehicle and fuel as a system
- develop life cycle environmental supervision and enforce recall program

- Establish “motor vehicle pollution prevention and control rules”
- explain Law of Prevention and Control of Atmospheric Pollution into detail rules and make it practicable
More stringent emission standards

Initiate the establishment of China VI emission standards
— more Chinese-characteristic
— more flexible
— more stringent supervision for compliance

Promote clean vehicle fuels

- more stringent standard for controlling Hazardous materials
- environmental compliance supervision on vehicle fuels
National Action Plan of Clean Diesel Engines

- Target engines
  - Commercial diesel vehicles
  - Engineering equipments, garden equipments, agricultural equipments and port equipments etc
  - Domestic vessels
  - High-way, non-road and marine fuels

- key projects
  - clean commercial vehicle plan
  - clean equipment plan
  - clean vessel plan
  - clean diesel fuel plan

Thanks for your attention!