Vehicle and Fuel Environmental Management in China

Vehicle Emission Control Center-MEP, PRC
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Main Content

1. Vehicle emission situation
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1. Vehicle emission situation
In 2016, the average smog day is 30 days. There are only 84 qualified cities among the 338 cities which was implemented the air quality standard, account for 24.9%.
Source apportionment of particulate matter shows that vehicle, industrial production, coal, dust are the main contributors of air pollution, account for 85% to 90%. The primary pollution source in Beijing, Hangzhou, Guangzhou and Shenzhen is vehicle.
In 2016, China's automobile production and sales amount is about 29 million, ranked the first for the 9th year in the world. Vehicle population reached 310 million, which brought enormous pressure to environment.
In 2016, China’s vehicle emission amount is 44.7 million tons. NOx, PM emissions from heavy duty trucks are respectively 2.8 million tons and 0.3 million tons, which account for more than half of total emissions, respectively.
2、Main progress
Vehicle pollution has been initially under control

Promoting vehicle, fuel, road program through overall planning. Vehicle pollution has been initially under control.
Stricter new vehicle standard

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China has implemented China 5 standard for LDVs and HDVs, and new vehicle standard become stricter gradually. China 6 has issued, and will be implemented in 2020.
In order to improve pollution source control, MEP cooperated with other ministry to carry out new vehicle compliance supervision, established the emission information disclosure. In Jan 2018, the MEP punished two vehicle manufactures 3.8 millions RMB because of the emission default.
31 provinces, cities and districts have been carried out regular inspections of motor vehicles. Unqualified vehicles should be maintained, or will be prohibited from driving.
In addition to environmental test, many cities carried out road inspection and remote sensing monitoring to strengthen daily supervision of in-use vehicle emissions. MEP will set up hundreds of remote sensing stations in Beijing-Tianjing-Hebei region.
Accelerating to scrap yellow-label and old vehicles

The State Council and relevant ministries attach great importance to yellow label and old vehicles. From 2013 to 2017, the total number of scrappage of yellow label and old vehicle is about 20 millions. Advanced elimination of heavy pollution vehicle not only do great contribution to increasing air quality as well as give space to automobile industry.
Currently, the sulfur content level of gasoline and diesel oil has reached 10ppm. the China VI gasoline and diesel in North China from October 1, 2017.
Through limited license, limited number, traffic control and other measures to effectively control vehicle ownership and use intensity, enhance traffic demand management.
Green Transportation in China

Truck to Train

Subway

EV

BRT

Bike

Walk
3. Future route of transport pollution control
Implementing laws and regulations

Implement Law on the Prevention and Control of Atmospheric Pollution and Build a Environmental Regulatory System
Strengthening the supervision of environmental protection

- Strengthening the regulation of new vehicle production conformity and in-use compliance
- Implementing environmental protection recall system
- To speed up the reform of environmental protection inspection
- Strengthening the regulation of high emission vehicles
- Establishing national, provincial, city vehicle emission monitoring platform

Life Cycle Supervision
National Clean Diesel Action Plan

- Clean Vehicle Plan
  - strict implementation of the China IV/V standards, establish a clean vehicle directory
  - Establish low emission zone, accelerate the scrappage of the yellow-label and old vehicle
  - Accelerate the promotion of energy saving and new energy vehicles
  - Promote DPF technology in new produced vehicle

- Clean Machinery Plan
  - speed up the non-road mobile machinery emission standard upgrade
  - the non-road mobile machinery must be equipped with the DPF in key area
  - Establish the IM and environmental label system for the non-road mobile machinery
  - Establish the high quality diesel supply system for the non-road mobile machinery
National Clean Diesel Action Plan

➤ Clean Shipping Plan

◆ speed up the formulation and implementation of ship engine emission standard
◆ carry out the old ship renovation and update
◆ Establish port emissions control area (ECA), lower the fuel sulfur content level
◆ Strengthen the energy conservation and emissions reduction technology upgrading and the implementation of the green port plan

➤ Clean Diesel Plan

◆ Accelerate the diesel standards updating
◆ Strict implementation of product quality standards
◆ Carry out fuel quality supervision
◆ Study the environmental parameter for diesel engine oil to reduce the ash emission
Enhancing vehicle environmental management

Integrated fuel, vehicle and traffic demand management control measurements, work together to enhance vehicle environmental management.
Joint Effort, Enjoy Together