

Activities to achieve sustainable transport

12th Five-Year Specific Plan on Energy-saving & Emission Reduction of Road and Waterway Transport

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Market access/exit mechanism for commercial vehicles & vessels based on fuel performance

- Access/exit: i) Fully implementing the fuel consumption limit standard for the commercial vehicles; and conducting pilot projects under government fiscal supports; ii) Promoting clean-tech innovations, and improving energy consumption inspection & supervision for commercial vehicles and ships; iii) Establishing economic compensation mechanisms (e.g. subsidy) for speeding up the phase out of dirty vehicles/ships; trying to promote the subsidies especially on heavy-duty trucks, buses and rural passenger buses in nation's "Old-for-New" Program (subsidy program)[1]
- Standardization in inland ships: i) Improving relevant economic policies, laws and measures; ii) Subsidizing inland ships' standardization process along Yangtze River, Xijiang River, and other main waterway corridors; iii) Promote clean-tech

[1] "Old-for-New" Program for Auto and Home Appliance (NDRC, MOF, MOFCOM, MIIT, MEP): Started from 2009. Aims to promote domestic car use and to phase out old and high emission vehicles that fail to meet required emission standard. Car owner will get a state-level subsidy of about CNY 3,000-6,000 if they replace his/her "yellow-label" car (car that fails to meet required emission standard) by a new/cleaner one. Max subsidy granted per car has been increased to CNY 18,000 since end of 2009. (http://www.gov.cn/zwggk/2009-06/03/content_1331210.htm).

Demonstration program for promoting energy-saving and new energy vehicles

- Promoting the use of energy efficient vehicles and new-energy vehicles
- Promoting natural gas vehicles

Drop-and-Hook pilot project

- Optimizing the composition of transport capacity, and improve actual loading rate (=actual tkm / designed tkm) and reduce empty miles
- Implementing drop-and-hook pilot and demonstration projects in selected regions
- Improving the relevant policies and mechanism

Eco-driving & Maintenance Projects

- Capacity building & training
- Promoting eco-driving simulation device and technologies on vehicles and ships
- Promoting eco-maintenance

Intelligent transportation system (ITS)

- Promoting Electronic Toll Collection (ETC)
- Promoting logistics information platform: in key inland waterway corridors, Yangtze River Delta, etc.
- Promoting off-shore vessel reporting system
- Promoting information service system for public travels

Promoting eco-tech on road construction and operation

- Promoting warm-mix-asphalt pavement technology
- Promoting the recycling technologies of road construction materials
- Improving and applying eco-tech on road tunnels: e.g. LED lights
- Improving eco-tech on expressway service zone and toll gate

Green Port & Shipping

- Pilot projects on port-railway connection (integrated transport between waterway and railway)
- Promoting “oil-to-electricity” in Rubber-Tired Gantries (RTGs)
- Promoting On-Shore Power Supply (OPS) system
- Promoting renewable energy use in port area

Promoting Energy Management Contracting (EMC)

- Fostering Energy Management Companies (EMCs) or Energy Service Companies (ESCOs) for transport sector
- Issuing the Guidelines on EMCs for transport sector, and establishing the EMC market and mechanism
- Conducting pilot projects.

Vessel energy efficiency management system and database system

- Establishing vessel energy efficiency management system
- Establishing vehicle energy efficiency database

Capacity building on energy-saving (and emission reduction) monitoring and supervision

- Improving energy-saving and emission reduction strategic planning system
- Improving energy-saving and emission reduction legislation & standards system
- Improving monitoring and supervision capacity
- Establishing statistics analysis and performance evaluation system