



MINISTRY OF ROADS AND TRANSPORTATION
MINISTRY OF CONSTRUCTION AND URBAN DEVELOPMENT
MINISTRY OF ENVIRONMENT AND GREEN DEVELOPMENT

MONGOLIA

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Policies and Strategies for Environmentally Sustainable Transport

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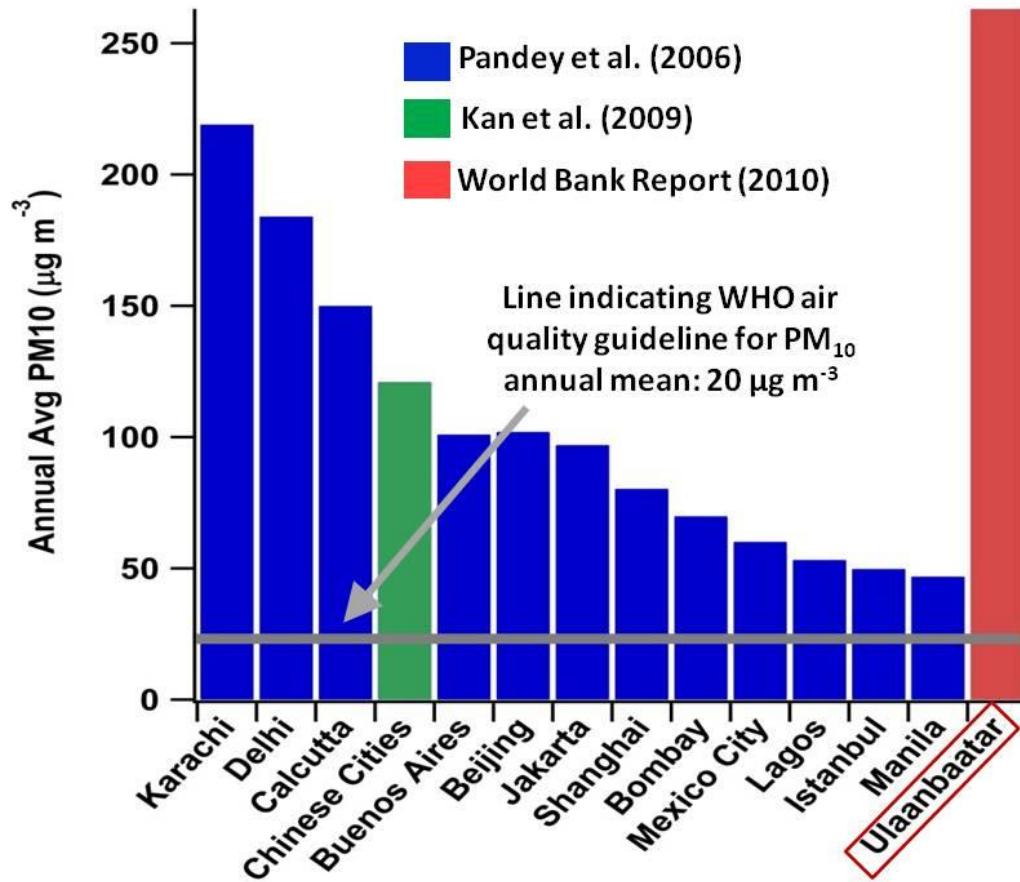
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MONGOLIA

- Location: land-locked country in the Central Asia
- Territory: 1.5 million square kilometers
- Population: 2.7 million, 1.25 million live in UB
- Density: 16 persons per 1 square km
- Vehicle population: 550 thousand



Air Pollution Sources



- ❖ Around 180,000 households /ger district/ which uses raw coal in winter time-50-60%;
- ❖ 340,000 vehicle's emission-20-30%;
- ❖ Thermal electro stations, 1200 small and medium sized HOBs and rest -20-30%

Sources: WHO report, 2012

Current Conditions of Transport System



- ❖ Rapid Increasing of Population & Vehicle ownership
 - ✓ *42.6% of population in Mongolia are live in UB city.*
 - ✓ *63 % of Vehicles in the country were registered & run in UB city.*
 - ✓ *GDP per capita growth was 7% on average for decade*
 - ✓ *Growth rate for registered vehicles was 15 % on average for decade*

Current Conditions of Transport System



❖ Travel speed Decreased

- ✓ *Traffic volume has been doubled between 1998-2011 in UB.*
 - *Average speed decreased in half in major roads.*
 - *In 1998 it was 30-40 km/h, in 2011 - 16-20 km/h*

Current Conditions of Public Transport



❖ Inadequate Supply of Public Transport Services

- ✓ *Only 2.2% are for public transport vehicles, 60% of residents commute by public transport.*
- ✓ *70% of registered vehicles are over 10 years.*
- ✓ *Inadequate management aggravates traffic congestion*
- ✓ *Inadequate public transport infrastructure & facility*
- ✓ *Un-effective law enforcement*
- ✓ *Lack of professional experts & efficient Management*

Reasons of Traffic Congestion & Air Pollution



- ❖ **Disequilibrium in Transport Demand & Supply**
 - ✓ *Un-efficient supply of road network could not meet the demand.*

- ❖ **Insufficient Supply in Public Transport Service & management.**
 - ✓ *Supply of public transport is insufficient to encourage public transport ridership that may reduce traffic for passenger vehicle*

Reasons of Air Pollution & Congestion



- ❖ Inappropriate Design for Transport Facility & Maintenance
 - ✓ *Street parking & sidewalks are designed to hinder traffic flows.*
 - ✓ *Inadequate maintenance of transport facilities increases risks of traffic accidents & congestion*
- ❖ Ineffective Law Enforcement & Responsibility.
 - ✓ *Law enforcement has been ineffective for drivers & pedestrians to comply with traffic regulation*

Policy & Strategy towards EST



❖ New Master Plan of Ulaanbaatar city up to 2030. */Parliament Decree #23, by February 2013/*

- ✓ *Strategy 1. Establishing competitive public transportation system to promote public-transportation-based urban development*
- ✓ *Strategy 2. Effective Car using Management*
- ✓ *Strategy 3. Develop and maintain high-quality transportation infrastructure*

Policy & Strategy towards EST



- ❖ **New Master Plan of Ulaanbaatar city up to 2030.**
 - ✓ *Strategy 5. Enhance transportation environment and disaster preparedness*
 - ✓ *Strategy 6. Provide Adequate institutional arrangements to support improved urban transportation development and management*
 - ✓ *Strategy 7. Promote social awareness of urban transportation problems and issue*

Policy & Strategy towards EST



❖ Law on Air

❖ Law on Air Fees

- ❖ Air Quality Standard. MNS 4585:2007
- ❖ Amount of air pollution elements. MNS 5885:2008
- ❖ Permitted limit and methodology of measurement of petrol engine automobile in emission. MNS 5013:2009
- ❖ Permitted limit and methodology of measurement of diesel engine automobile in emission. MNS 5014:2009
- ❖ There are total 47 standards related air pollution in Mongolia.

Policy & Strategy towards EST



- ❖ Ministry of Construction and Urban Development /MCUD/ was developed the Draft of the several new laws:
 - ✓ “Urban Redevelopment Law”
 - ✓ “Law on Car parking”
 - ✓ “Law on Green Areas in Cities and Towns”

Policy & Strategy towards EST



- ❖ Ministry of Environment & Green Development and Ministry of Roads & Transportation and Ministry of Justice are cooperating on transport sector air pollution reduction issues such as:
 - ✓ To increase hydrogen and hybrid fuel use in vehicles and encourage low fuel consumption cars and public transport
 - ✓ To improve monitoring system of the vehicle quality
 - ✓ To develop draft of Law on Custom Tax Remittal of Environmentally Friendly Transport Export
 - ✓ To improve and renew some regulations and old standards

Policy & Strategy towards EST



❖ Action plans taken for against the traffic jam.

- ✓ *State workers will use public transport*
- ✓ *To restrict private cars by their plate numbers digit in downtown area for weekdays*
- ✓ *School bus project*

Air Quality Management



- ❖ National Committee on Air Pollution Reduction was established in 2012 under the Office of the President of Mongolia
- ❖ The Clean Air Fund was established in accordance to the of Law on Air
- ❖ UB city's Air Quality Office was established for Air quality monitoring

Major Actions Taken



- ❖ For reduction of toxic smoke emitting from vehicles:
 - ✓ to spend \$2.8 million from Clean Air Fund for replacing fuel use of large capacity of 400 buses as liquefied gas use
 - ✓ \$350.000 for installing the filters for toxic smoke buses
 - ✓ Procurement of purchasing equipment for determination of amount of toxic smoke and substances from vehicle is being conducted

Major Actions Taken



- ❖ The Government planning to implement direct road network system between Ulaanbaatar city and 21 aimag /administrative unit/ to connect them centers by 2016
- ❖ A total of 1340 km paved roads are proposed to built in 6 aimags in this year and will be financed by Government Bond Investment. The road network is planned to be established in 3 aimags next year and 3 aimags by 2015
- ❖ In accordance with development of road network living condition of the citizens becomes more sustainable, and comfortable inter-city passenger and goods transportation will be established

Major Actions Taken



- ❖ “New Reconstruction Midterm Development Program” 2010-2016
 - ✓ (to decrease air pollution in Ulaanbaatar city 50% by 2016, the program encouraged to improve infrastructure sector)
- ❖ “Metro” project
- ❖ “Street” Project for improving the road network system /establish Grid system/ of Ulaanbaatar City towards reducing traffic jams and air pollution

Major Actions Taken



- ❖ “A Government Public Contact Center, called 11-11 (hotline)”
- ❖ A Citizens Service Center, called “Single window”
- ❖ To organize teleconferences every month regularly
- ❖ Mongolia has freed import taxes on hybrid and gas fueled cars
- ❖ Increased taxes on used cars depending on the age of cars according to the new Excise Duty Tax Law

Major Actions Taken



- ❖ 24 vehicle diagnostic inspection centers were established in all aimags /administrative units/ to control emissions of vehicles and road safety requirements

Periodical inspection of Vehicles



Motor vehicle safety and pollution control can be ensured through of statutory inspection of motor vehicles.

Categoryies of motor vehicles	Effective term
Taxis, buses and other vehicles for public transportation use	6 month
Passenger cars and trucks	1 year

Emission Standard



Vehicle type	CO %	HC ppm	Test
Gasoline	1.5-2.5	500-1000	Idle

Vehicle type	Opacity		Test
Diesel	engine without turbo charging	40	Idle
	engine with turbo charging	30	



**THANK YOU FOR YOUR
ATTENTION!**