

A New Decade in Sustainable Transport

23-25 August 2010
Bangkok, Thailand



Myanmar Delegation



Background Information

Total land area

676,577 Km²

Population

59.13 million (2009)

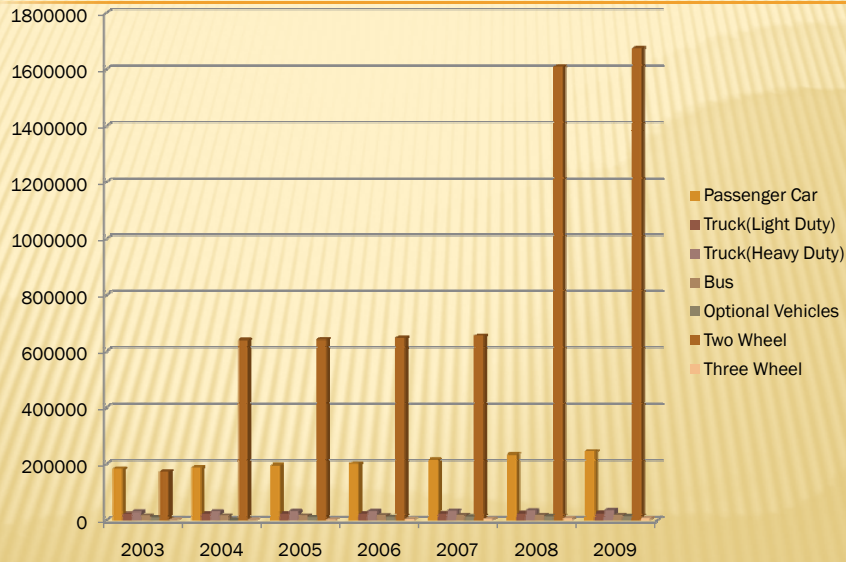
Road Length

131087 km (2009)

Major Public Transport

- Railways - 7102 km
- Airways - 69 Air-port
- Internal Waterways- 111 Jetty
- Road Transport
- Coastal Shipping

Population of Vehicles in Myanmar (2003 – 2009)



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Circular Rail System in Yangon

Existing situation of Circular Rail (2009)



- Myanmar Railways runs 21 sets of train
- Total 200 trips are running every day, carrying about 130,000 passengers per day.
- Carrying about 48 million passengers per year.

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River Ferry in Yangon

Ferry Service of IWT

No	Route	Number of Ferry	2009		
1	Dala	3	96	32200	998200
2	Khanaungto	4	13	3000	93000
3	Sapar chaung	1	10	4000	124000
4	Small Boat with engine	321	963	8667	268677



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Traffic congestion Measures

Pedestrians footpath and overpass



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Cleaner fuel

- Road Transport Administration Department has been equipped inspection devices to respond automobile source air pollution.
- Using CNG in place of petrol and diesel (short term) and bio-fuel (long term)
- Number of vehicles (December 2008)

Gasoline	Diesel	CNG	LPG	Total
1829292	212066	26444	37	2067839



List of CNG Station

No.	Location	No of Station
1	Chauk	1
2	Yanan Gyaung	2
3	Yangon	41
4	Paleik	1
5	Mandalay	1
Total		46

- The Government is encouraging the use of CNG for City transportation

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Types of inspection for emission control

1. Annual inspection (renewal registration) & initial inspection
2. Road side inspection
3. Patron inspection

System of inspection for emission control

1. Visual inspection
2. Theoretical inspection
3. Inspection with equipment

Enforcing Activities for extreme smoking vehicles

- 1st phase - give warning notice and force to maintain the exhaust system of vehicle
- 2nd phase - withdraw the issued vehicle registration certificate and vehicle inspection certificate
- 3rd Phase - take punishment



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Emission Control

- Emission is mainly in private and freight vehicles.
- RTAD and traffic police force performs road side inspection for emission control.



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Air Quality Monitoring

Yangon

Site	TSP (ug/m3)	PM10 (ug/m3)	SO2 (ug/m3)	NO2 (ug/m3)
1	495.87	112.49	0.86	32.13
2	213.08	61.67	0.98	17.80
3	350.57	131.54	1.50	19.14

Site 1 = Commercial Area
(Zay Cho Market)
Site 2 = Residential Area
(Office of MCDC)
Site 3 = Industrial Area
(Mandalay industrial zone)

Mandalay

Site		TSP (ug/m3)	PM10 (ug/m3)	SO2 (ug/m3)	NO2 (ug/m3)
1	April, 2007	342.58	177.69	-	-
	Jan, 2008	143.21	71.75	-	-
2	April, 2007	168.61	68.59	1.14	23.22
	Jan, 2008	118.7	65.3	1.24	22.28
3	April, 2007	127.37	66.95	0.37	28.36
	Jan, 2008	188.66	136.92	0.25	25.42

TSP = Total Suspended Particulate
PM10 = Particulate Matter Smaller than
10 micros
Site 1 = Commercial Area
Site 2 = Residential Area
Site 3 = Industrial Area

Parameters - SPM, PM10, SO2 and NO2

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Awareness Raising

- Exhibition, Competition and Educative Talks on road safety
 - Exhibition (Naypyitaw, Yangon, Mandalay) & Competition (Nation wide)
 - Educative talks (City bus lines, driving training schools, high schools)



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Future Strategies and Policies

Transport System

- quality of bus service
- capacity, network and integration of bus transport
- bus-related facilities
- fare setting procedures
- bus regulation and financing
- Upgrade the current circular railway system



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