

<u>Location:</u> 9° 32' and 28° 31' North92° 10' and 101° 11' South ------<u>Area:</u> 2,61,228 sq. miles, 1275 miles, North to South, 582 miles, East to West ------<u>Population:</u> 58.38 million by the year 2009, with a growth rate of 1.52%, ------Climate: Tropical Monsoon, Three seasons, Summer, Rainy and Cold Season

National Environmental Policy of Myanmar

The wealth of the nation is its people, its cultural heritage, its environment and its natural resources. The objective of the Myanmar's environment policy is aimed at achieving harmony and balance between these through the integration of environmental consideration into the development process to enhance the quality of the life of all its citizens.

Nation commission for Environment Agency (NCEA) follows the guidance of UNEP and ASEAN frame works of all Environment sectors. It gives necessary guidance to the nation in accordance with Environmental protection law and regulations.

It is the responsibility of the State and every citizen to preserve its natural resources in the interest of present and future generation. Environmental protection should always be the primary objective in seeking further development.

ENERGY POLICY (Ministry of Energy)

- To maintain the Status of Energy Independence
- To promote wider use of New and Renewable Sources of Energy
- To promote Energy Efficiency and Conservation
- To promote use of Alternative Fuels in household
- To implement effective utilization of discovered crude oil and natural gas resources in the interest of the entire nation including the regions where the discovery was made
- To promote more Public Private Participation
- To introduce the Community Base Organization

The Ministry of Energy has also issued polices to maintain the status of energy independence, to promote wider use of new and renewable sources of energy, to promote energy efficiency and conservation, to promote use of alternative fuel in household.

The Ministry of Heath has issued policies to intensify and expand environmental health activities including prevention and control of air and water pollution.

"Myanmar Agenda 21" was published in 1997 and aims at strengthening and promoting systematic environmental management in the country. The Myanmar Agenda 21 makes recommendations for the drafting and promulgation of National Framework Environmental Law, and Environmental Impact Assessment (EIA) law for systematic integration of environmental considerations in the development process of the country.

National Environmental Conservation Law

- Promulgated the Environmental Conservation Law at 2012.
- Serious attention to Reduce Air Pollution, Water Pollution and Land Pollution
 - Conservation of Forests, Wood land, Wildlife and Biodiversity
 - Control Dumping of Industrial Waste
 - Mobilization of Public Awareness and Participation
 - Creation of Renewable Energy



LEGEND

27-Mar-13





Approval Process for EIA of private Sector Projects



Permitting Agency Grant License Including ONEP's/YCDC Condition

Approval Process for EIA of Private Sector Projects

(Revision Process)





EXISTING LAND USE PATTERN OF YANGON CITY



Industrial Zones In Yangon City

Industrial Zones in City	= 24 Number
► Total Factories	= 3562
Garments	= 126
➢Foodstuff	= 334
≻Chemical	= 56
Iron and Melting	= 519
Cold Storage and Fish Processing	= 45
Paper and Cardboard	= 105
≻Distillery	= 9
Forest Product	= 148
≻Public Use Goods	= 709
≻Others	= 1511

TSPM,1997



Month

Figure (9) - Mass Concentration in Aerosols at Yangon (1997)



Elements



COMMERCIAL

Respirable Dust Sampler

Envirotech APM 460(NL)





RESIDENTIAL AREA



INDUSTRIAL ZONE













AQM (Yangon)

Commercial Area

Month	PM ₁₀ (µg/m³)	SO ₂ (µg/m³)	NO ₂ (μg/m ³)	
October	53.48	2.45	1.66	
November	52.30	0.12	14.09	
December	94.18	0.05	13.22	
January	80.57	0.58	15.55	
February	94.92 0.78		9.09	
March	arch 72.49		17.74	

> WHO Guideline Value

AQM (Yangon)

Residential Area

Month	PM ₁₀ (µg/m³)	SO ₂ (µg/m³)	NO ₂ (μg/m³)	
October	63.16	2.18	5.73	
November	63.21	0.08	36.36	
December	92.69	0.06	15.14	
January	69.78	1.36	13.48	
February	119.86	0.9	22.89	
March	arch 75.5		15.08	

> WHO Guideline Value

AQM (Yangon)

Industrial Area

Month	PM ₁₀ (µg/m³)	SO ₂ (µg/m³)	NO ₂ (µg/m³)	
October	35.67	1.8	1.38	
November	53.55	0.06	15.35	
December	59.12	0.32	13.53	
January	55.98	0.03	12.44	
February	59.4	2.69	14.09	
March	49.24	4.99	13.31	

> WHO Guideline Value

Air Quality of some Asian Cities



- PM₁₀s are almost above normal value of WHO Air Quality Guideline, ,,, SO₂ and NO₂ are within normal value of WHO Air Quality Guideline,, Ozone, CO and Pb are not done,,
- To continue and extend AQM to other places,,, To develop a "Dust Reduction" programme for the cities,,, To set up the AQM Devices city where,,, To develop a "National Air Quality Standards".









INSPECTION AT SITE







Comparison of Waste Water Standard

Sr. No	Particular	pH - Value	Total Solid	Suspended Solid	B.O.D	COD	Remarks					
1	WHO Guide Line	7	600	100	110	220	ppm					
2	ASEAN Standard	7	720	100	110	250	ppm					
3	National Myanmar	6 9	Up to 2000	Up to 500	20 60	< 200	ppm					
4	Thailand Standard	5.5-9.0	3000 5000	50 150	20 60	120 400	ppm					
5	Korea Standard	5.59	3000 5000	50150	20—60	120 400	ppm					

Presentation of Myanmar

With Full Regards

Thanks for Attention