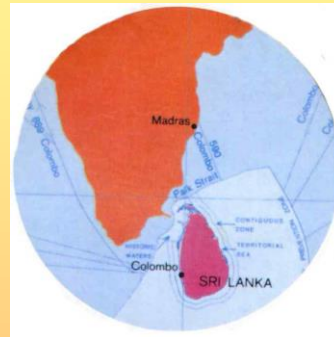


MALÈ DECLARATION SECOND EMISSIONS INVENTORY WORKSHOP

28th January -1st February 2008

At

Asian Institute of Technology, Thailand



COUNTRY PRESENTATION

By

R.N.R.Jayaratne and D.S.Bandara

Air, Noise, Vibration Monitoring and Male Declaration Unit

Central Environmental Authority

Sri Lanka



MEMBERS OF THE INVENTORY TEAM

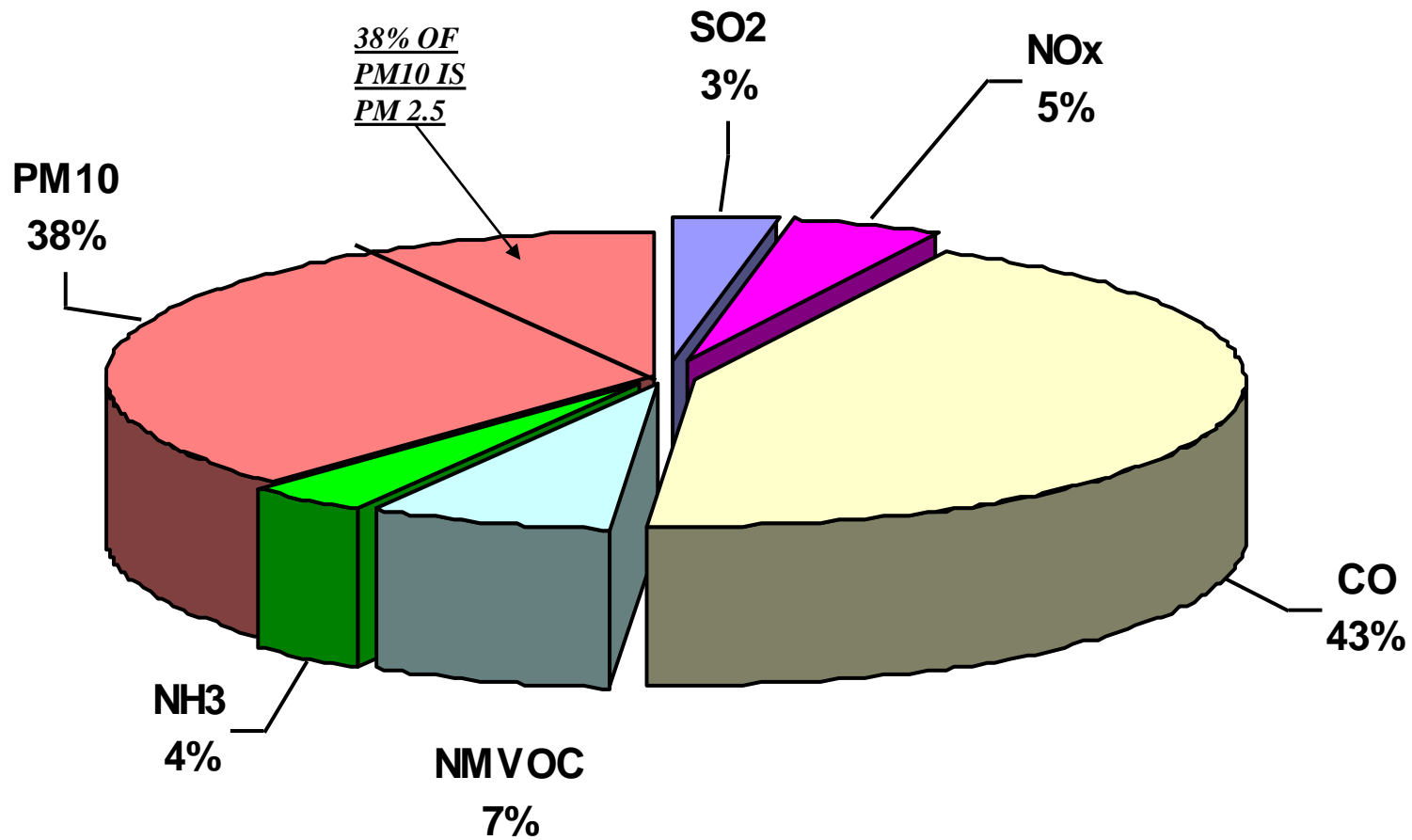
- 
- Mr.C.K.Amarathunga**
(Director Laboratory CEA)
- Mr. R.N.R.Jayarathne**
(Senior Environmental Officer CEA)
- Mr. Deepthi Bandara**
(Senior Environmental Officer CEA)
- Mr. K.T.C.Ariyawansa**
(Senior Environmental Officer CEA)
- Mrs. R.A.W.Ranawakaarachchi**
(Senior Environmental Officer CEA)



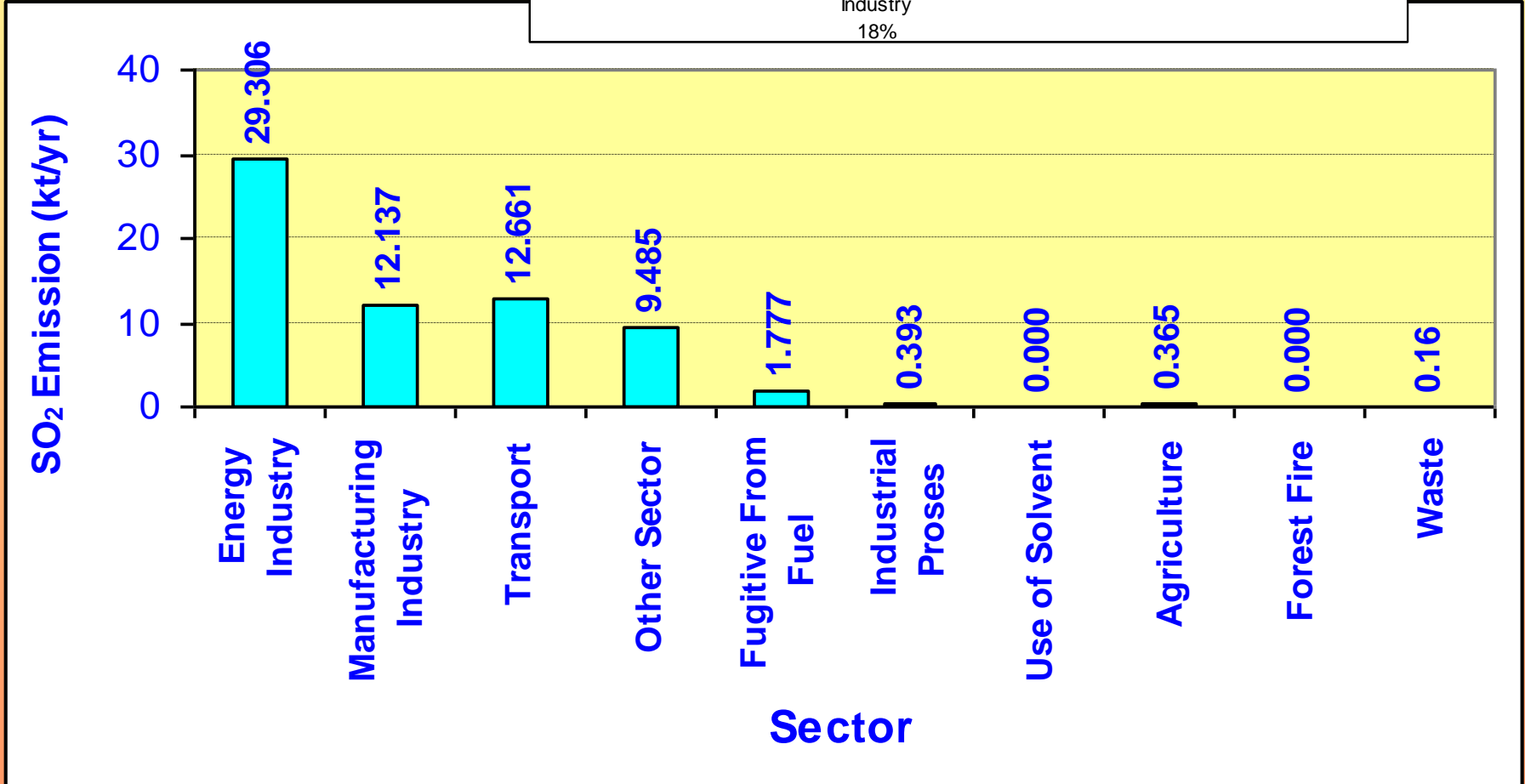
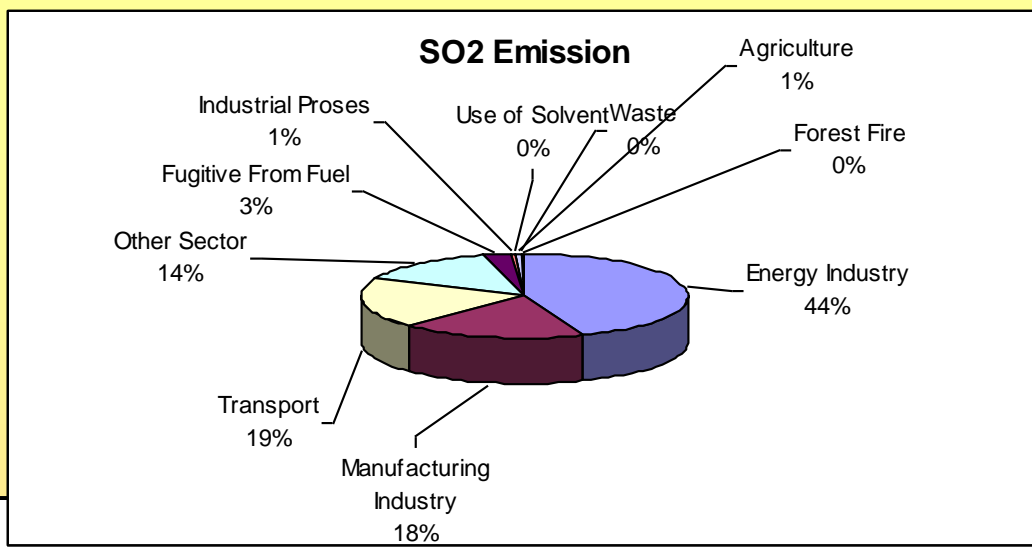
RESULTS



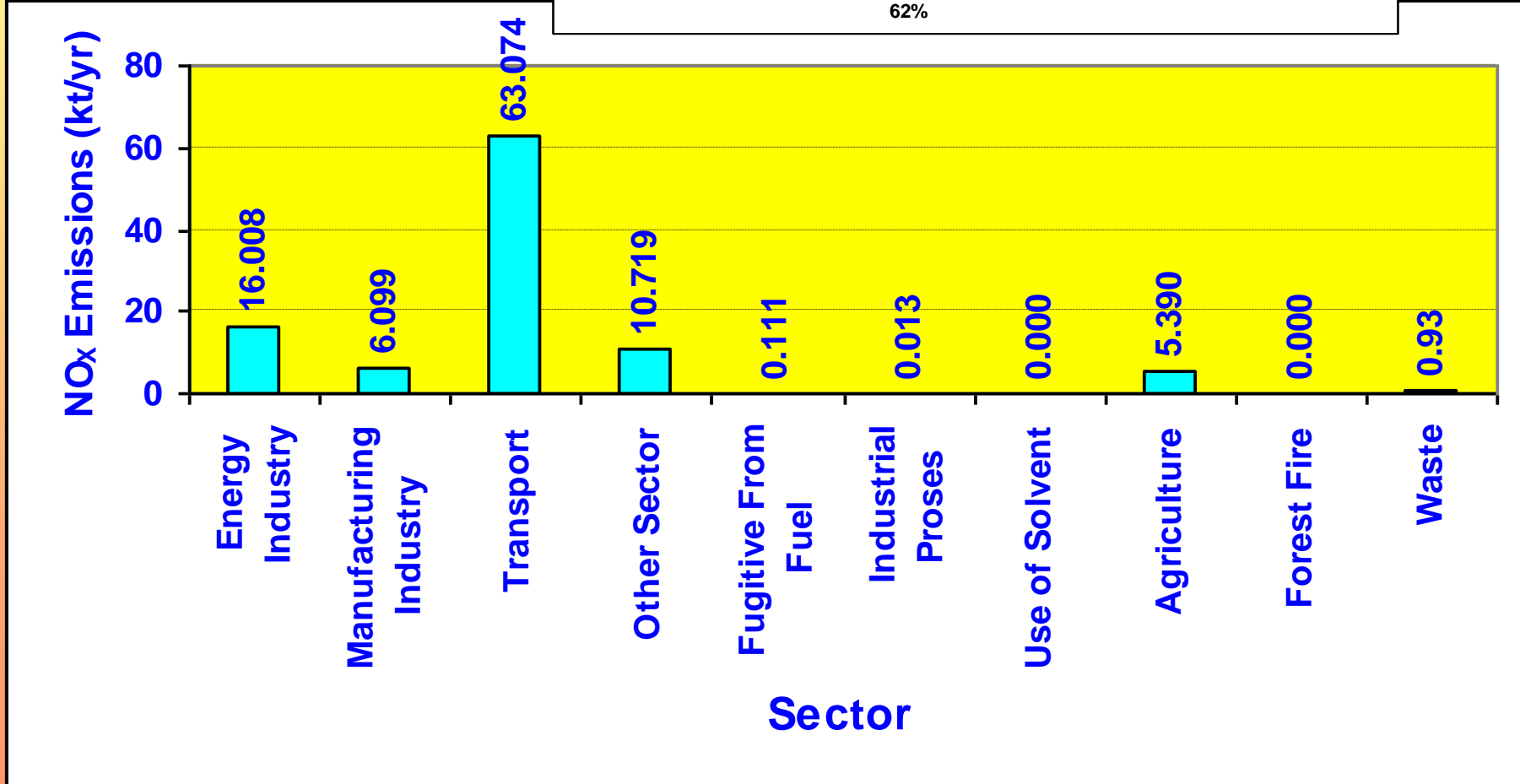
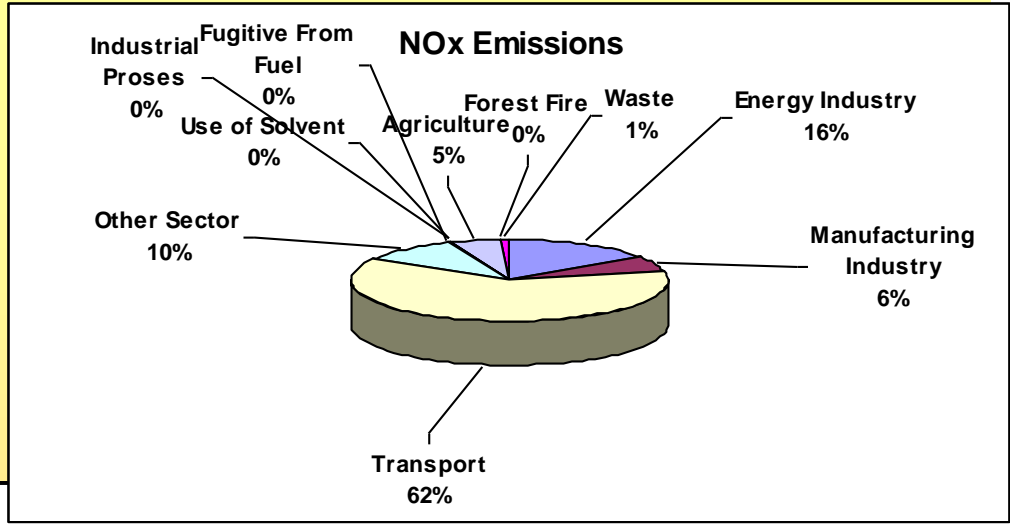
Total 2539.49 kt/yr



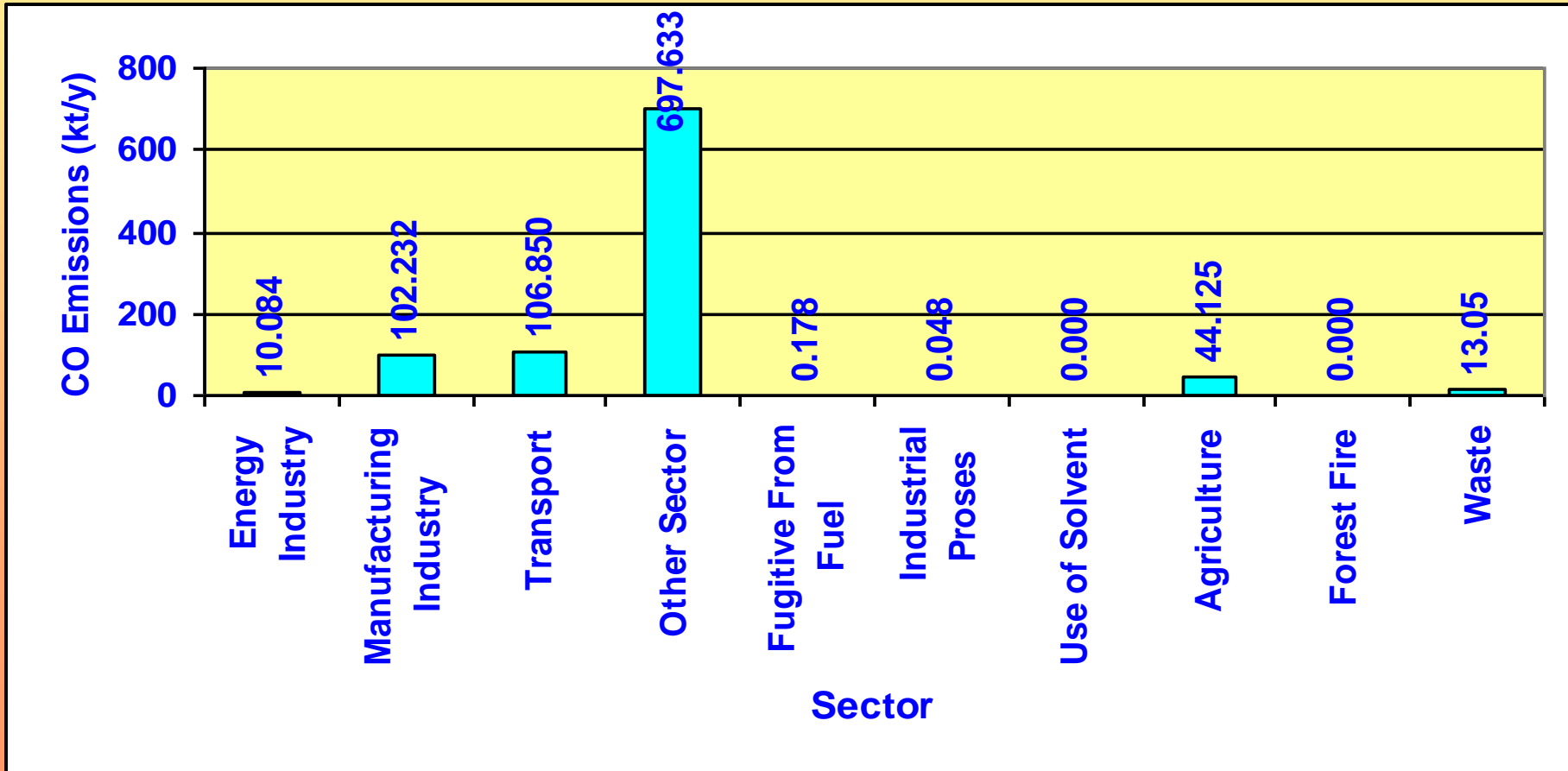
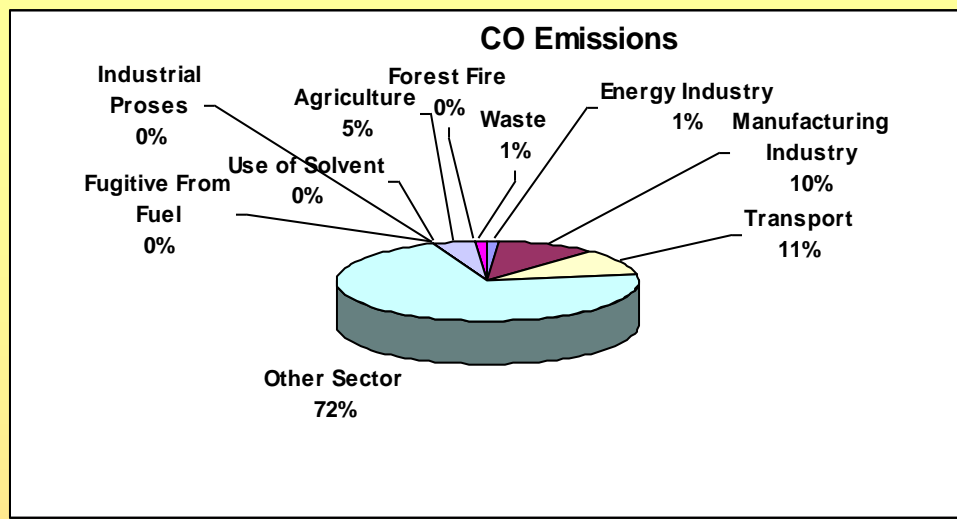
SO₂ Emission



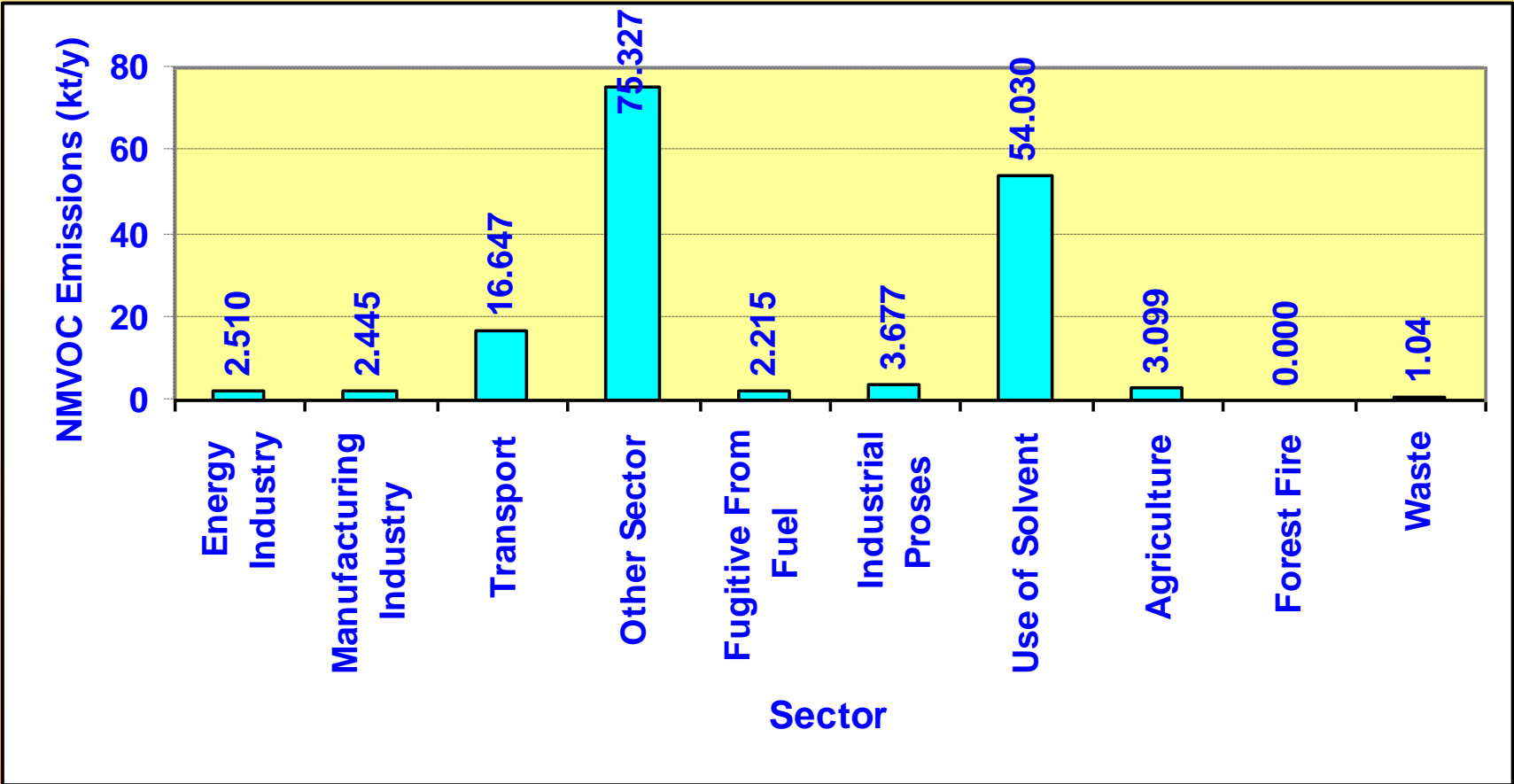
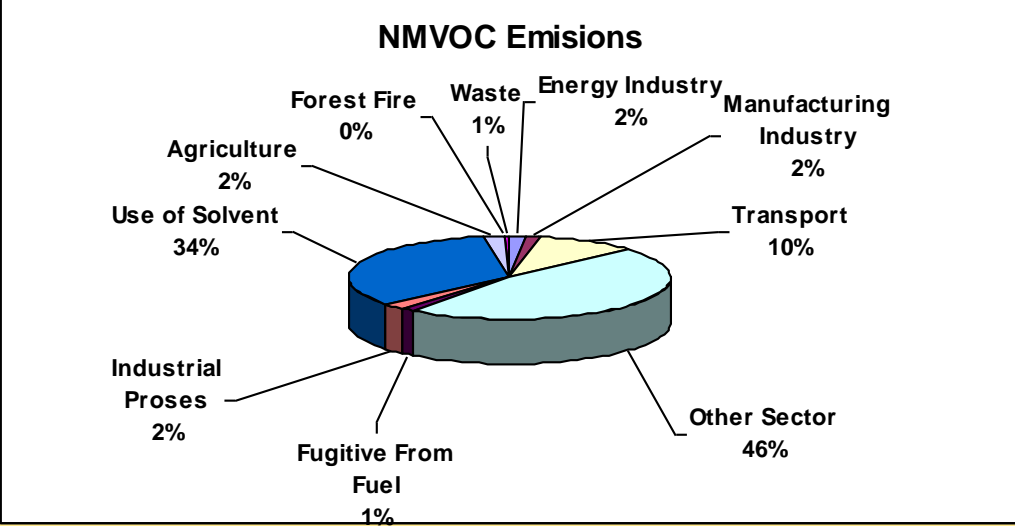
NO_x Emission



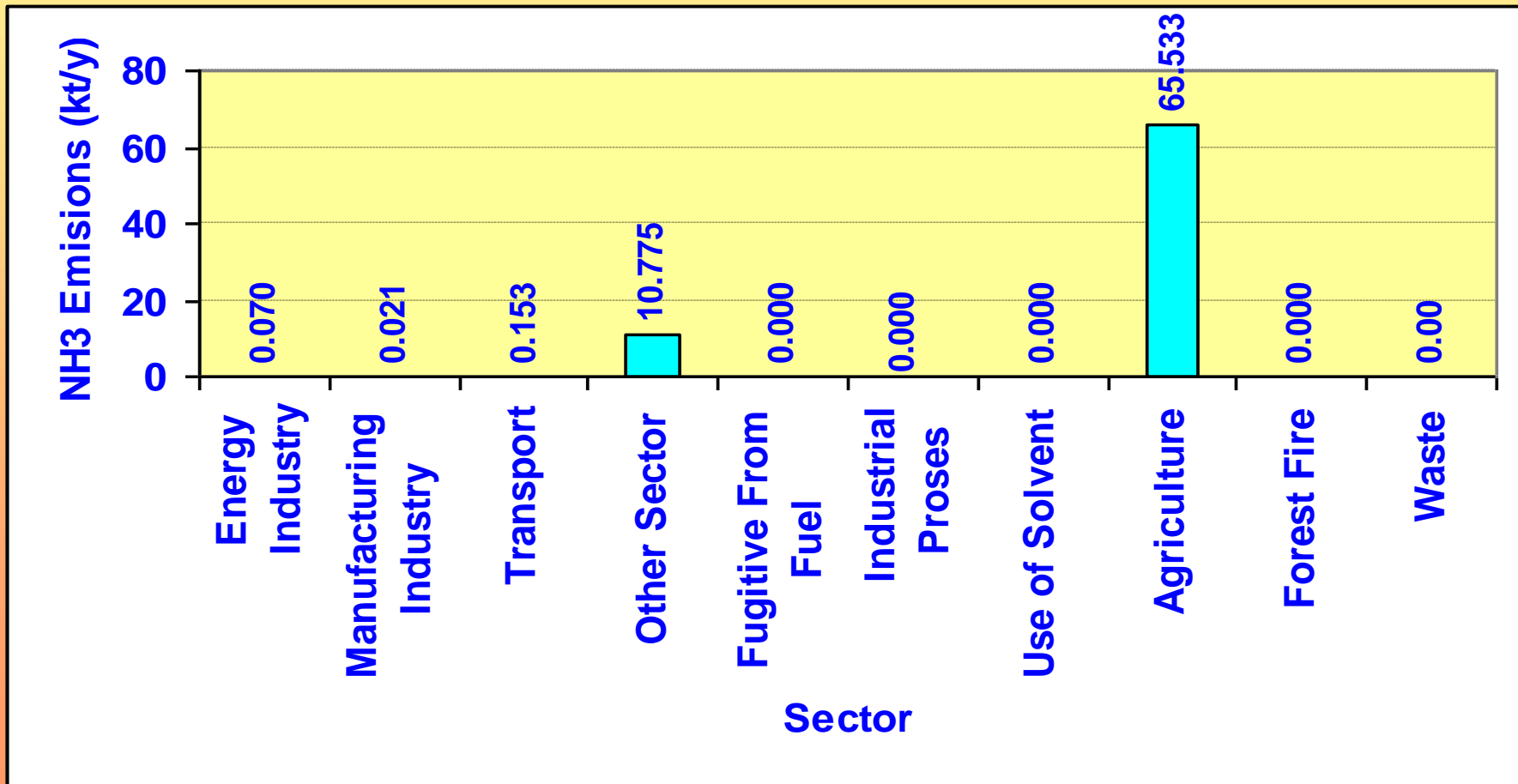
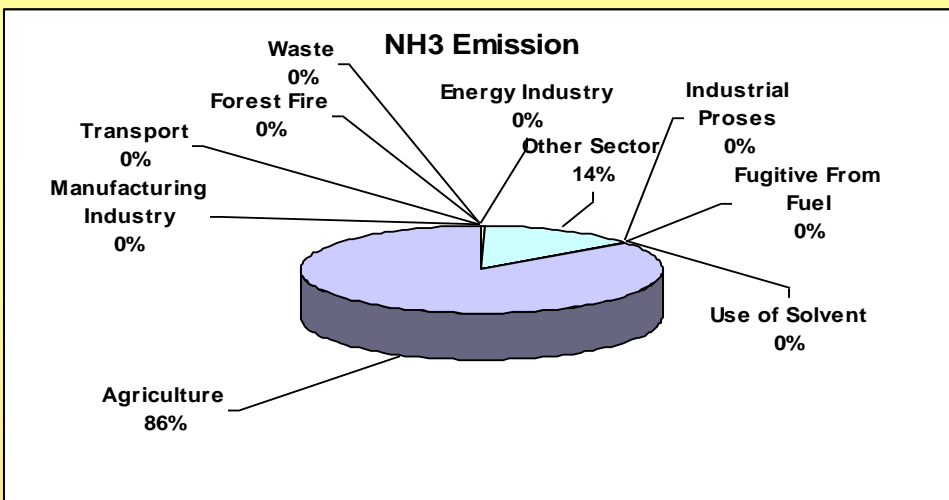
CO Emission



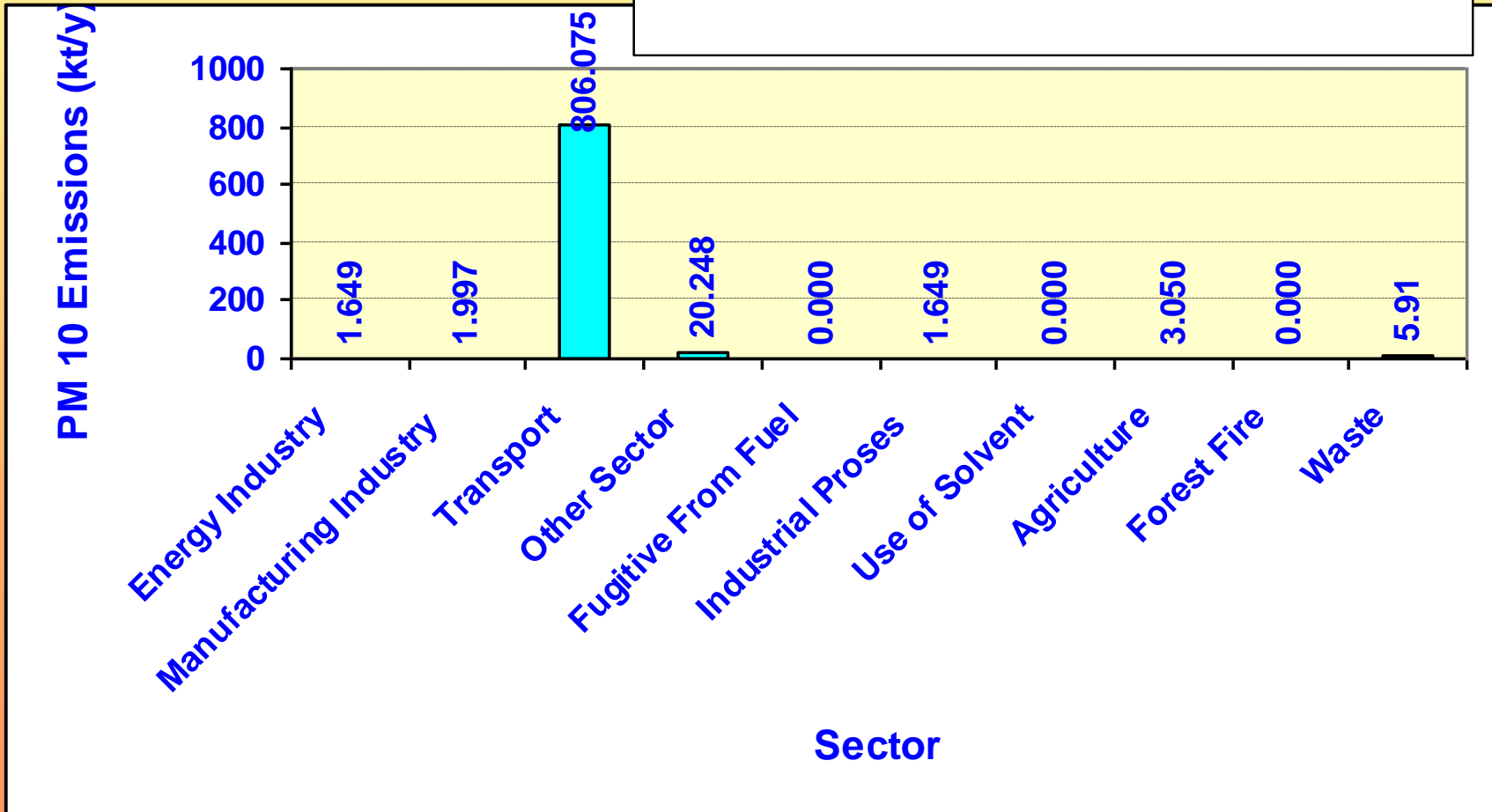
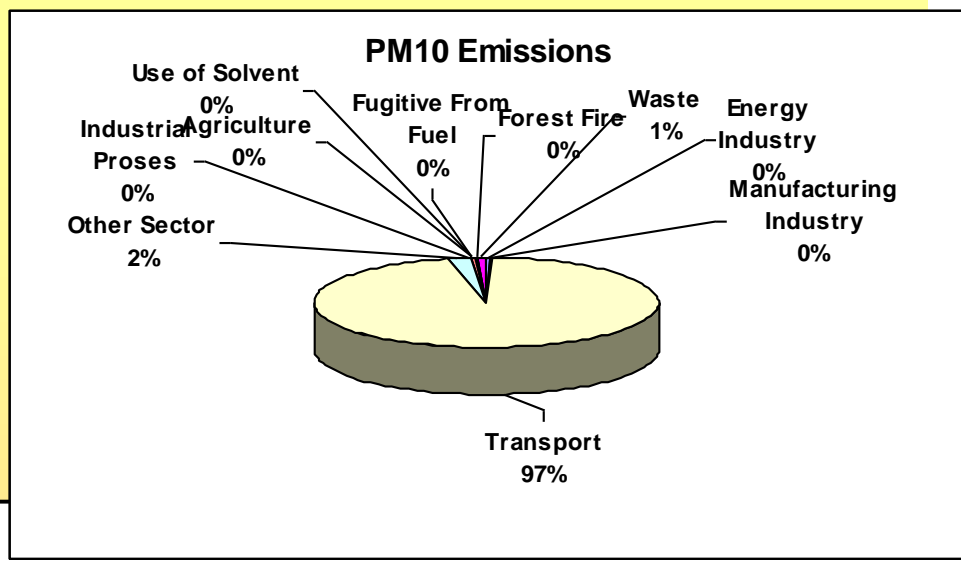
NMVOCEmission



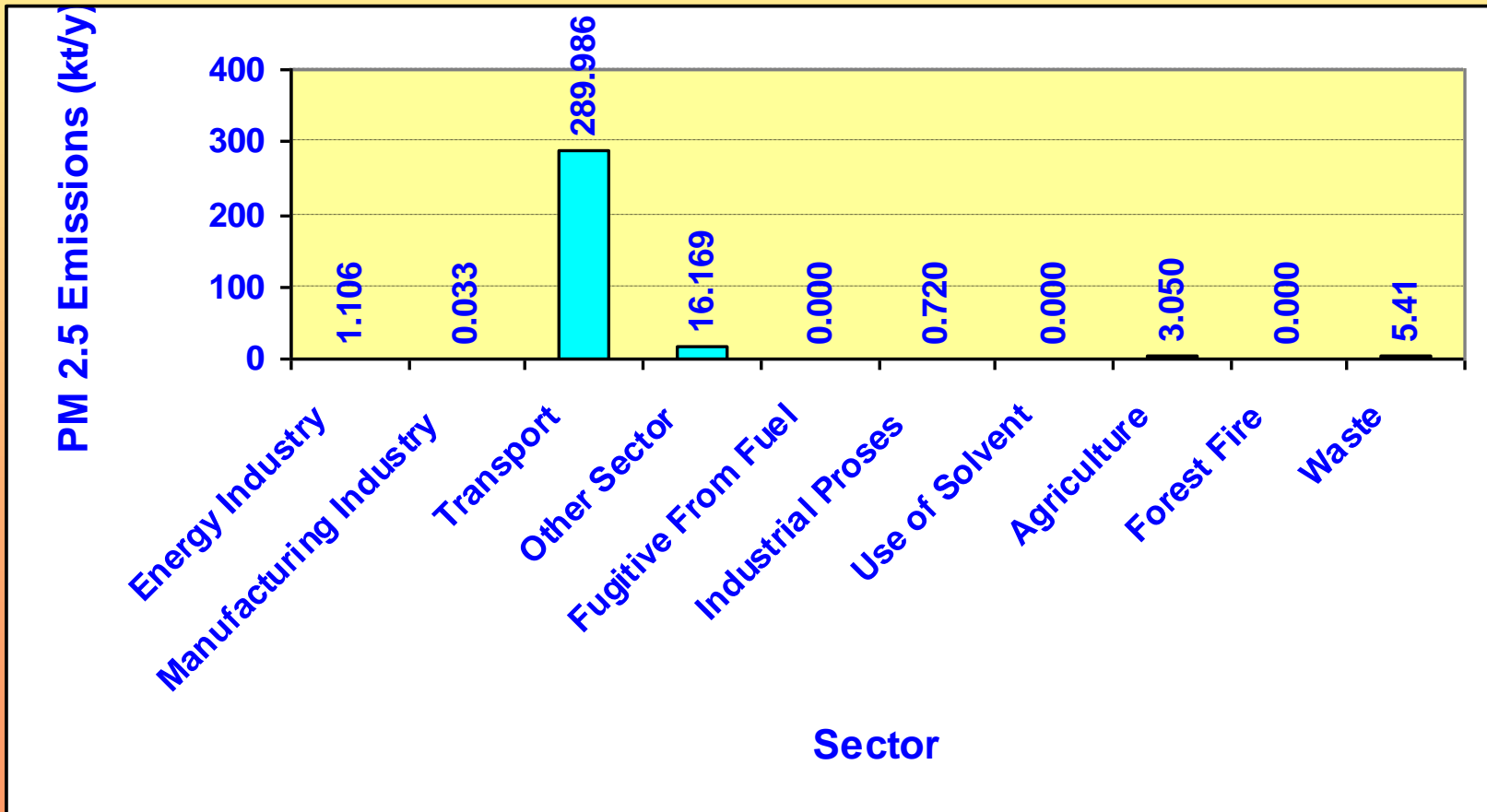
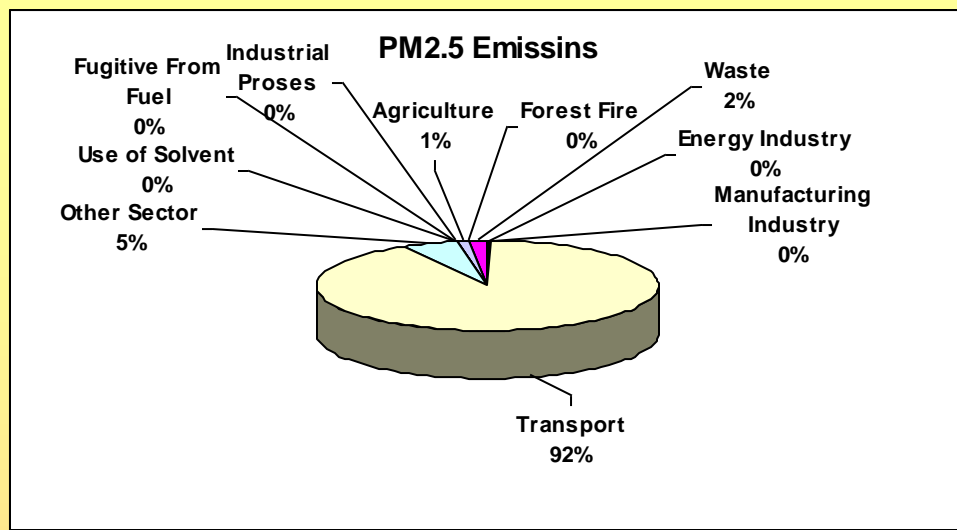
NH₃ Emission



PM-10 Emission



PM 2.5 Emission



Work Still to be done and challengers

***Some industrial data –Should be collected
CEA already started industrial survey to
collect actual data for industrial sector***

***Construction activity rate – Data not available
Collecting of actual data is very difficult***

***Open burning of waste- Actual data not
available***

Waste incineration - Actual data not available





Transport detailed method

Number of LTO cycles for international aviation is available but difficult to find type of air crafts

For year 2000 domestic aviation number of LTO cycles not available. It is very few compare to the international aviation due to security condition of Sri Lanka for year 2000

Emissions from on site burning of forests and grasslands – Actual data not available

Data collection for Solvent and other products use – to be completed

Emissions from large point sources

Sri Lanka does not have large point sources according to the definition given in the manual



4. Combustion in Other Sectors	Commercial/Institutional	1.49	0.34	0.10	0.02	0.00	0.04	0.02
	Residential	7.48	10.29	697.09	75.22	10.77	20.21	16.14
	Agriculture/Forestry/Fishing	0.51	0.09	0.45	0.09	0.00	0.00	0.00
	Non-specified "Other sectors"	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5. Fugitive emissions from fuels	Production of coke				0.00	0.00	0.00	0.00
	Oil exploration and crude oil production and transport				0.16			
	Oil refining	1.78	0.11	0.18	1.18			
	Distribution and handling of gasoline				0.88			
	Production and distribution of natural gas.				0.00			
	Flaring during oil and gas extraction		0.00	0.00	0.00			
6. Industrial processes	Mineral products	0.24		0.00	0.00		0.38	0.02
	Chemicals	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Metals	0.12	0.00	0.00	0.00		0.47	0.00
	Pulp and paper	0.03	0.01	0.05	0.03		0.79	0.70
	Food and drink				3.64		0.00	0.00
	Major construction site activities (Fugitive PM only)						0.00	0.00
7. Solvent and other product use				54.03				
8. Agriculture	Manure management					25.20		
	Application of N-containing fertilizers		3.62			39.35		
	Burning of agricultural crop residues	0.36	1.77	44.12	3.10	0.99	3.05	3.05
9. Vegetation fires and Forestry	On-site burning of forests and grasslands	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10. Waste	Waste incineration	0.16	0.93	13.05	1.04	0.00	5.91	5.41
	Human excreta					2.07		
Total anthropogenic		66.28	102.35	974.20	160.99	78.63	840.57	316.47



THANK YOU