

Emission Inventory Male' Declaration - P3

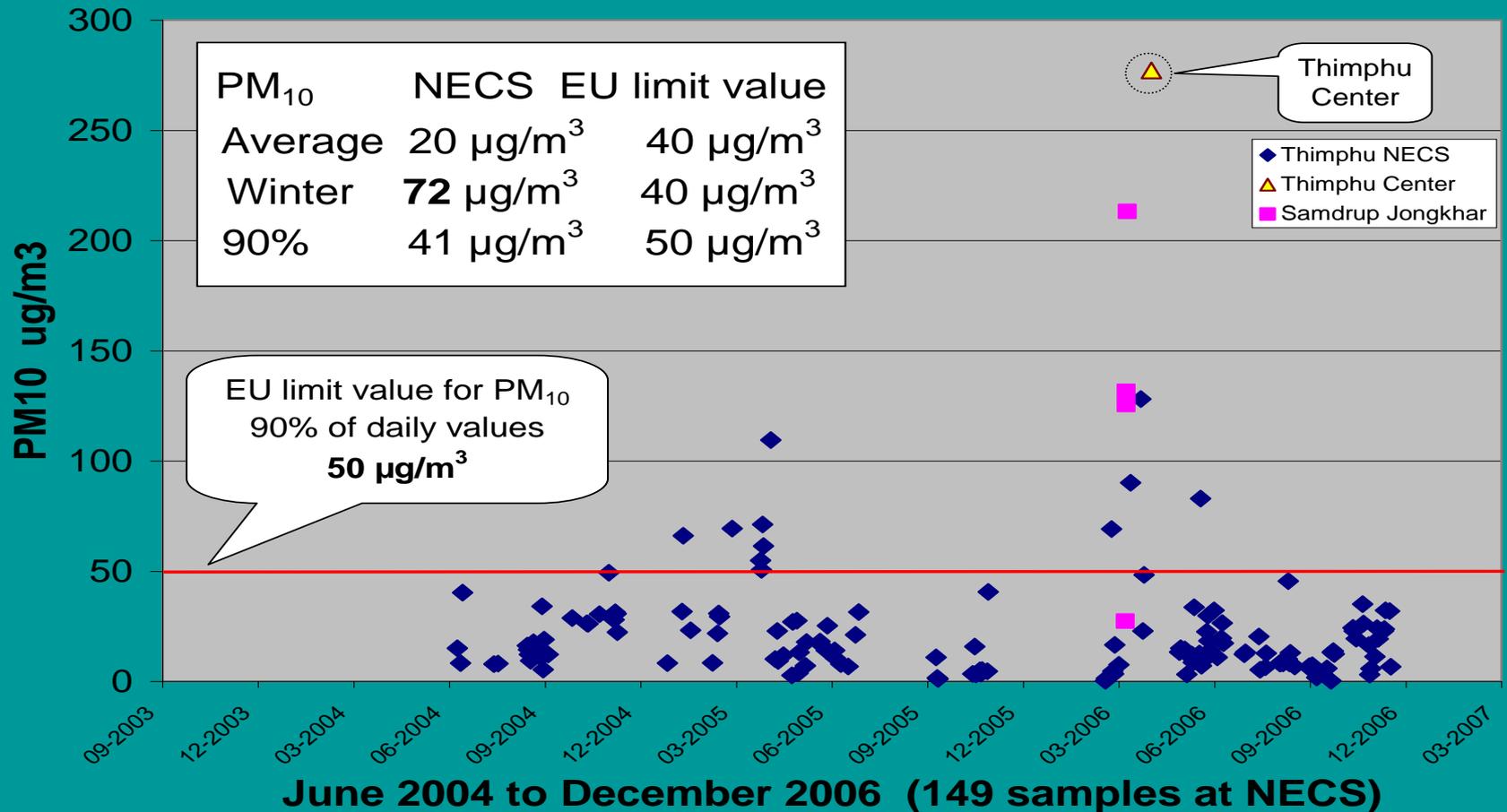
Passang, Jigme and Nedup
Bhutan

1. Brief Introduction

- **Who are involved**
 - Jigme, Jigme Zangmo, Passang Dema and Nedup Tshering
- **Year of inventory**
 - 2004 June till date (Thimphu) PM10
 - 2004 till date (Bhur) Male' Monitoring Site
 - 1996 till date - Meteorology sector
- **Data available**
 - PM10 for Industrial Estates and Thimphu Town
 - Transport Sector
 - Meteorology sector
 - Annual Forest Fire incidents
 - Waste (Thimphu)
 - Petroleum products

2. Results (PM10)

Daily Particulate Matter Concentrations (PM₁₀) in Thimphu



2. Results of Transport

Location	Type	Pass	Fail	Total	%Fail
Phuentsholing USD	Light	1102	46	1148	4.0%
	Medium	135	8	143	5.6%
	Heavy	347	7	354	2.0%
	Two wheeler	226	3	229	1.3%
Thimphu USD	Light	2925	185	3110	5.9%
	Medium	116	7	123	5.7%
	Heavy	171	1	172	0.6%
	Two wheeler	644	9	653	1.4%
Both Centers	Total	5666	266	5932	4.5%

Work to be done

- Compiling the information into the required format (MATCH Model)
- Most important is to house these data in one place. NEC is developing a Hub for environmental management information system (EMIS). Once completed all data will be available in the system.

Challenges

- Priority need base development
 - Human health
 - Environmental degradation
 - Types of pollutants - Ozone (O₃), Sulphur dioxide (SO₂), Nitrogen oxides (NO_x).
 - Capacity
 - How important is the problem
- Human resources and enhance capacity building
- Equipment and human resources