



Ho Chi Minh City Environmental Improvement Project Air Quality Monitoring Component

Presentations at the Kick-off Seminar at DOSTE, HCMC, 15-16 April 2002







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Improvement Project
Air Quality Monitoring Component
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1 Introduction

The seminar will represent an introduction to the air quality monitoring and management programme that will be established for DOSTE in HoChiMinhCity. The presentations will be based on a modern air quality monitoring and management system, which will form the basis for the developments, prepared by NILU and funded by NORAD. The basic platform to be used for air quality assessment and planning will be based on the Norwegian developed AirQUIS system.

The continuation of the development of an on-line monitoring programme for the most important air pollutants (Indicators) will be added to a model based air quality planning system.

The key features of the system is the integrated approach that enables the user in a user friendly way to not only access measured data quickly, but also use the data directly in the assessment and in the planning of actions. The demand of the integrated system to enable monitoring, forecasting and warning of pollution situations has been and will be increasing in the future. NILU has an extensive experience in the application of AirQUIS in several large urban areas worldwide.

Environmental data collected through the automatic monitoring and telemetric network will be quality controlled and transferred for storage in the integrated relational databases. Statistical programmes for control of quality and representativeness will be used, and the first results can within one hour after field collection be presented using user-friendly graphical tools.

Air pollution dispersion models will be added to the system in HCMC to enable concentration estimates, evaluation of different source's relative importance to the total exposure, impact assessment and to perform optimal abatement planning.



2 Contents of the seminar

Below please find a list of some of the topics that will be presented during the seminar.

About NILU

AQMS Introduction

Monitoring Programme design

- Objectives
- o Design the programme
- Site selection
- Indicators
- o Selected Air Quality Indicators (AQI)
- o Different instruments different prices

The Management platform

- o AirQUIS system
- o Introduction
- Demonstrations

Monitoring operations

- o Data retrieval and QA/QC
- Data Quality Objectives
- o Data retrieval and storage
- o Data retrieval via telephone lines

Dispersion and meteorology

- Wind
- o Turbulence
- o Atmospheric stability

Dispersion models

- o Different types of models
- o Gaussian type models
- o The EPISODE model
- Model applications

AirQUIS applications



- Presenting data
- Data dissemination
- Impacts assessment
- Abatement strategy planning



3 Schedule

Day 1			
0900 0915	Welcome address and opening of the seminar Presentation of NILU		
0930	Introduction to the Air Quality Management System (AQMS)		
1000	-Coffee break		
1020	The complete air pollution management system The platform-monitoring- models – exposure – databases – presentations		
1130	Lunch		
1330	Monitoring Programme Design Objectives - Site studies – Indicators – Site characteristics - instruments		
1430	The Air Quality Management platform AirQUIS system - Demonstrations		
1600	Comments and questions End of day one		

Day 2

l – model
Abatement

The seminar has been designed for a maximum of 20 participants.



Appendix A

Overheads presented

The following overheads are not a part of the data file for this presentation, but are filed separately as PowerPoint files called F-13-Append-A to F-13-Append-G in the "foredrag" folder at NILU adm.

