

# Air Quality Monitoring Seminar Albania 2010

## Contents of the seminar

### Day 1

#### 1. Welcome address, UNDP?

Introduction

#### 2 Air quality management

- Sources
- Monitoring
- Air quality assessment
- Modelling
- Data dissemination
- Abatement planning

*Coffee break*

#### 3 Monitoring programme design

- Objectives
- Design the programme
- Air quality indicators
- Operational sequence
- Meteorological data
- The modern air quality monitoring system
- Site selection
- Representativity
- Sampling Station Density

*Lunch*

#### 4. Instrumentation; monitoring and sampling

- Fields of application
- Measurement principles and standard measurement methods
- References to EU directives and the European Standardisation Organisation (CEN)
- Data logging and data collection
- Shelters
- Laboratory requirements
- Preparation of filters and post analysis
- Operational costs
- Procurement, installation and start-up of measurement stations
- Commercially available instruments and data collection systems

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### Day 2

#### 5 Air quality legislation

- Guidelines and limit values
- WHO guidelines
- EU Directives
- Framework directives
- Daughter directives
- Limit values and standards
- Monitoring mechanism CO<sub>2</sub> and GHG emissions

*Coffee break*

#### 6 Monitoring and sampling, network operation

- Routine operation, site visits
- Preventive maintenance
- Calibrations, service and repairs
- Data validation
- Organisational structure, in-house or outsourcing, examples of solutions

*Lunch*

#### 7 Quality systems

- Quality Assurance, Quality Control and Quality Assessment
- References to EU directives, tasks of The National Reference Laboratory
- Requirements for traceability in calibrations, nationwide and internationally
- Inter comparison exercises and demonstration of measurement capabilities
- Quality manual overview, examples of procedures
- Accreditation and references to ISO 17025

**Presentations from Albania (existing AQ monitoring)**

**Discussions**

### Day 3

#### 8 Air quality assessment and reporting

- Statistics
- Air quality and meteorology
- Exceeding limit values
- Possible impacts (health and nature)
- Designing the AQ report

*Coffee break*

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### 9 Data dissemination

- Requirements for data dissemination with references to EU directives
- Different information channels, Web, e-mail, SMS, radio, TV
- Information adapted to different audiences, public, experts, decision makers
- Information content, online data, historical data, warnings, forecasting, reports, themes
- Reporting to the European Commission
- Live example (internet connection required)

*Lunch*

### 10 Air quality management planning

- Models
- Emission inventories (point, area, line-sources)
- Concentration distribution and exposure
- Impact assessment
- Abatement strategies
- Action plans – future air –scenario evaluation

### 11 Summary, conclusions and discussions