

Air Quality Management and the International Legal Framework

**Almaty, Kazakhstan
12 to 14 October 2005**

Capacity-building for Air Quality Management in Central Asia

**Lars Nordberg
Stockholm, Sweden**

**Adviser on International Legislation on Air
Pollution**

E-mail: la.nordberg@tele2.se

CENTRAL ASIAN REPUBLICS

Kazakhstan

Kyrgystan

Tajikistan

Turkmenistan

Uzbekistan

OBJECTIVES

Full cooperation within the UNECE Convention on Long-range Transboundary Air Pollution

- **Monitoring and evaluation**
- **Control of sulphur emissions**
- **Control of NO_x emissions**
- **Control of VOC emissions**
- **Control of heavy metals emissions**
- **Control of POPs emissions**
- **Integrated action on acidification, eutrophication and ground-level ozone**

MAJOR REQUIREMENTS

- **Emission reductions**
- **National emission ceilings**
- **Emission limit values**
- **Strategies and policies**
- **Product control measures**
- **Reporting**
- **Exchange of information**
- **Public participation**
- **Research and development**

EMISSION SOURCES

- **Stationary**
- **Mobile**
- **Diffuse**
- **Point**
- **Transboundary**

PRESENT MONITORING ACTIVITIES IN KAZAKHSTAN

- **Mainly urban and industrial areas**
- **Rural background stations needed**
- **Long-range transboundary component must be addressed**

MEASURES NEEDED TO BE TAKEN BY KAZAKHSTAN

- **Policy development**
- **Technical and infrastructural issues**
- **Scientific issues**
- **Regulatory aspects**
- **Administrative and managerial issues**

SOCIAL AND ECONOMIC FACTORS

INTEGRATION OF ISSUES

- **Health**
- **Environment**
- **Materials**
- **Economic development**
- **Poverty**
- **Energy prices and taxation**
- **Public participation**

STRATEGIC CONSIDERATIONS

- **Vision statement by Government**
- **Review of current legislation**
- **Costs and benefits of measures**
- **Plans for follow-up**
- **Regional and sub-regional cooperation**
- **Integrated approaches**
- **Structural change**
- **Economic instruments**
- **Public involvement**

WAYS FORWARD 1

- **Upgrade emission inventories**
- **Review inadequacies in monitoring and reporting**
- **Improve energy scenarios**
- **Verify calculation methods**
- **Pay attention to LRTAP**
- **Develop routines for reporting**

WAYS FORWARD 2

- **Develop effect-oriented research**
- **Take part in international cooperation**
- **Consider economic instruments**
- **Harmonize national programmes**
- **Provide necessary funds**
- **Proceed step-by-step**