

Last initiatives in Poland

Dr. Janina Fudala
Institute for Ecology of Industrial Areas, Katowice,

Background

- International obligations of Poland to reduce NO₂, N₂O and NH₃ emissions up to 2010
- National Sustainable Development and Environmental Protection Strategy

are the base to:

- implement of national sustainable development and environmental protection strategy as a part of international strategy based on the same roles
- take into account an international commitments and obligations on the atmospheric emission reduction of several pollutants as well at national as at the regional administrative level

Last initiatives in Poland

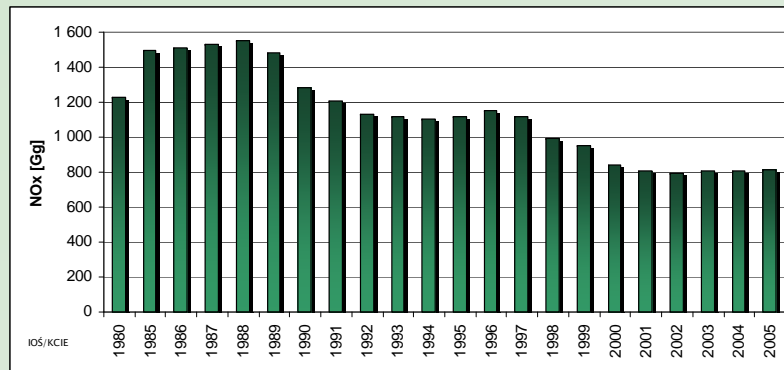
Administration activities

- Organisation of the Conference of Parties (COP) under UN Climate Change Convention
- Annual emission inventory
- Air quality monitoring
- Air protection programs for regional zones
- Emission permits

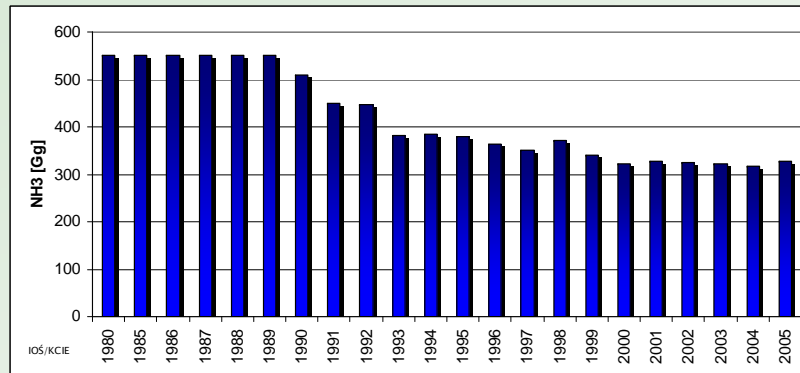
Research Activities

- Integrated projects
- Statutory institutional grants
- Individual grants

Last initiatives in Poland (1) - Annual emission inventory



NO₂ emission in 2006 – 889,6 Gg



NH₃ emission in 2006 - 286,7 Gg

N₂O emission in 2006 - 30 718 Gg
CO₂ eqv

Source; UN ECE - EMEP/Poland – Report, NEIC, IEP, Warsaw, 2007

Last initiatives in Poland (2) – Air quality monitoring

- 103 air quality monitoring stations with the measurements of NO, NO₂ and NO_x concentrations,
- 11 stations with an annual mean NO₂ concentration above the standard value in 2006; there are mostly traffic stations in the large cities
- 25 precipitation stations with the measurements of chemical composition and the concentrations of the pollutants
- Reports available on the web site Chief Environmental Protection Inspectorate www.gios.gov.pl

Last initiatives in Poland (3) – Air quality monitoring

- According to 2006 air quality assessment for the 10 zones it is necessary to develop an air pollution protection programs because of exceedance an annual standards for NO₂ concentration
- Data for the year 2007 will be available next month

Last initiatives in Poland (3) – Emission permits

- ❑ 1080 applications for integrated emission permits had been registered by Ministry of Environment in 2006
- ❑ 900 integrated emission permits have been accepted by the Ministry of Environment in 2007

Last initiatives in Poland – Research Activities – Integrated Projects – Activities

- ❑ An integrated assessment of air pollution in Poland for supporting of environment protection management project proposal had not been accepted for financial support by Ministry of Science and Higher Education
- ❑ An integrated approach to the reduction of critical loads and sustainable development including biodiversity project is still under evaluation procedure
- ❑ The Polish research team for National Integrated Assessment Modelling (NIAM) has been established and joined the European NIAM Network initiated by UK and Sweden

Last initiatives in Poland – Research Activities – Institutional grants

Continuation of the institutional grants:

- ❑ The methodology of qualitative assessment of ammonia emission from manure storing in individual agriculture farms at Zulawy
- ❑ Estimation of the ammonia loses from agriculture sources at the polder areas
- ❑ Measurements of ammonia emissions from manure storing and spreading stages in Polish commercial farms
- ❑ Controlling gaseous nitrogen oxide emissions from grassland farming systems in Europe
- ❑ Integrated measures in agriculture to reduce ammonia emissions
- ❑ Chemical composition of urban aerosols
- ❑ PM₁₀ and PM_{2,5} concentrations assessment in urban, urban/industry and rural areas including chemical composition of them

Last initiatives in Poland – Research Activities – Individual grants

- ❑ The physical mechanisms which control the transport of pollutants in the boundary air-sea layer and exchange between the boundary layer
- ❑ The sources of aerosols compounds
- ❑ The chemical composition of aerosols over the Baltic Sea and their impact on climate and air quality in the regional as well as global meaning
- ❑ The role of the atmosphere over southern Baltic Sea in biogeochemical cycles, i.e. life cycle and budget of reactive nitrogen, eutrophication and acidification role of aerosols, role of particles in nutrient transport

Last initiatives in Poland – Research Activities – Publications

- ❑ 15 papers have been published on the behaviours and concentrations of nitrogen compounds in the environmental compartments

THANK YOU FOR YOUR ATTENTION !!!