

# AIR QUALITY ACTIVITIES

In the frame of the cooperation between the Italian Ministry of Environment, Land and Sea and the Montenegrin Ministry for Spatial Planning and Environment, Techne Consulting s.r.l. has provided and is still providing technical assistance to all activities related to air quality assessment and management and air pollution control, in order to fulfil the commitments coming from the International agreements ratified, or which are expected to be ratified soon, by the Country and go on in the approximation process towards European Union.

The following list summarizes **carried out activities in the previous years**:

- Emission inventories
  - Compilation of the National Greenhouse gases emission inventory, related to 1990 and 2003 (in December 2005) and to 2006 (in August 2008) and assistance for the preparation of the first National Communication
  - National emission inventory according to the Convention on Long Range Transboundary Air Pollution (LRTAP) and emission inventory at local scale, for 2006
- Air quality modelling
  - Application of integrated models (meteorological, dispersion and photochemical) for air quality assessment and production of maps describing the dispersion of pollutants over the territory
- Legislation
  - Transposition of European directives on ambient air quality in National legislation
  - Implementation of this legislation performing air quality preliminary assessment, definition of air quality zones and the minimum structure of the National monitoring network
- Software supply (for emissions estimation and general environmental management) and related training sessions
- Assistance for the integration of the Environmental Protection Agency of Montenegro in the European Environment Information and Observation Network (EIONET)

In the frame of the new contract, we are proceeding with emission inventories compilation, according to the Conventions on Long Range Transboundary Air Pollution (LRTAP) and on Climate Change (UNFCCC); the aim is producing greenhouse gases and other pollutants inventories related to the period 1990 – 2008/09 (depending on the availability of updated data related to 2009) to have a complete picture of the emissions situation in the Country.

In addition, technical assistance for the harmonization of national legislation to the European one will also proceed, in particular regarding the agreement on the final version of secondary legislation on ambient air quality and drafting new legislation on air emissions.

In order to start implementing new provisions on air quality, air quality dispersion models will also be updated, a specific study on ozone will be done and emission scenarios and projections will be produced. Used software will be supplied to the Ministry and their results will be used also for a proposal of possible measures to be adopted in order to reduce air pollution in the Country.

Finally, two months of training are foreseen by the contract to transfer to the Agency the necessary know-how, especially on inventories compilation and use of software.

All **on going activities foreseen by the new contract** are summarized as follows:

- Emission inventories
  - Compilation of integrated national air emission inventories related to the period 1990 – 2008/09 (*depending on the availability of updated data related to 2009*) according to LRTAPC and to UNFCCC
  - Updating of the existing sub-national emission inventory for 2008/09 (*depending on the availability of updated data related to 2009*)
  - Uncertainty evaluation and check of consistency between all compiled inventories
  - Training on the job for transferring to local personnel the necessary know how to go on with emissions inventories updating in an autonomous way
- Air quality legislation
  - technical assistance in drafting ambient air quality secondary legislation and transposition into national legislation of European legislation on air emissions, according to the Country priorities
  - technical assistance in the negotiation process for National Emission Ceilings (NEC) directive (if necessary)
  - training sessions on air quality legislation implementation and European reporting obligations
- Air quality management in the frame of EU directive on Air quality
  - Updating of air quality modelling adding a specific study on ozone and updating the classification of the territory in air quality zones, if necessary
  - Definition of a plan or program for air quality management to attain the EU standards, using projections of emissions in the scenarios and air quality modelling
  - Supply of software for emissions projection and air quality modelling and related training
- Harmonization of GHG scenarios with scenarios for air quality management on local scale
- EIONET Reporting
  - Knowledge transferring on EIONET priority data flow and formats to be used to transmit data and information
  - Assistance in organization of data on emissions to be sent in the frame of EIONET priority data flow, in the format required by the European Environment Agency (EEA)

### **First results:**

First planned objective is emission inventories compilation. As agreed with Ministry for Spatial Planning and Environment and with Environmental Protection Agency of Montenegro, this activity will be executed in close collaboration with the Montenegrin EPA experts. For this reason, starting from the beginning, project objectives, data collection plan and training programme have been agreed with the Agency. Mutual work will be essential in the sense of know-how transferring to the local experts.

Lists of data to be collected for the different sectors have been produced and meetings with the representatives of the Montenegrin institutions and large industrial companies, which have been identified as potential owners of necessary data and information, have been organized in order to explain content and significance of the project. Representatives of the Montenegrin institutions have shown comprehension and willingness to provide a support for prompt and efficient execution of the foreseen activities.

Drafting on official requests is now going on together with the analysis of the historical statistic data relevant for the estimation of air pollutants emissions.

Big satisfaction can be expressed for the good cooperation and the enthusiasm of the local team working with us on this issue, depending on the understanding that emission inventory compilation will be an Agency obligation in the future and it is essential that the Country becomes autonomous in this activity.