

The Eighth Senior Technical Managers' Meeting  
of the Acid Deposition Monitoring Network  
in East Asia  
1-3 August 2007, Bogor, Indonesia

## **Report on the Implementation Status of the Activities of the Strategy on EANET Development (2006 – 2010)**

### **I. Introduction**

1. The Revised Five-Year Medium Term Plan for EANET was adopted at the Eighth Session of the Intergovernmental Meeting (IG8) held in Hanoi, Vietnam in November 2006. IG8 also decided that the title be changed to “Strategy on EANET Development (2006-2010)”.
2. The Strategy has identified eight categories of activities for achieving the objectives of the EANET network:
  - i. Promotion of acid deposition monitoring;
  - ii. Compilation, evaluation, storage and provision of data;
  - iii. Promotion of quality assurance and quality control (QA/QC) activities;
  - iv. Implementation of technical support and capacity building;
  - v. Producing periodic reports on the state of acid deposition in East Asia;
  - vi. Promotion of research activities related to acid deposition problems;
  - vii. Promotion of public awareness; and
  - viii. Other relevant activities
    - modeling activities and emission inventories
    - selection and review of priority substances to be assessed
    - promotion of formation of an “epistemic community”
    - improvement and development of institutional arrangement.

Categories i. – vii. Refers to existing activities which need to be strengthened, while category viii. refers to activities that are considered necessary to achieve the objectives of the network.

3. Under each of the eight categories, 30 particular activities have been identified to be undertaken during the period 2006 – 2010 with clearly stated targets and 43 expected results and outputs at the end of the implementation period. In view of possible human and financial resource limitations, priorities are set for the implementation of the following activities:

Activities financed by core budget:

- i) Improvement of implementation of all required monitoring items with necessary data completeness and accuracy
- ii) Evaluation of national QA/QC programs and their implementation
- iii) Preparation of periodic assessment reports on the state of acid deposition
- iv) Studies on the establishment of a sound financial basis and the further development of EANET following the outcome of the feasibility study on an appropriate instrument

Activities financed by additional budget:

- i) Discussion on promotion of modelling activities and emission inventories
- ii) Promotion of capacity building for model application on urban, national and regional scales
- iii) Establishment of the framework for reviewing substances to be monitored including other air pollutants and monitoring parameters

**II. Progress in the implementation of the activities of the Strategy on EANET Development (2006-2010) after STM7**

- 4. An update on the implementation status of the tasks associated with the 43 expected results and outputs is provided in the Annex 1. Most of the tasks related to activities under categories i. to vii. are extensions of on-going activities implemented by the NC.
- 5. As some of the projects in categories i. – viii. have been scheduled for implementation in the first half of the period 2006-2010, these activities have already started. A detailed report on the status of the activities will be presented at Fifth Session of the Working Group on Future Development of EANET (WGFD5) and the coming Seventh Session of the Scientific Advisory Committee (SAC7).
- 6. Further updates and discussion papers have been prepared on some activities as reported in the following STM8 documents:

Expected Results and Outputs	Agenda Item
<u>Promotion of acid deposition monitoring</u> i) Report on improvement of data completeness and application of sampling/analytical equipment at the EANET monitoring sites (2007-2008) ii) Recommendation on use of less expensive methods to reduce monitoring cost and increase number of monitoring sites (2007-2008) iii) A set of Standard Operating Procedures (SOPs) for operational monitoring (2006-2007) iv) Decision on revision of Technical Manuals for Wet Deposition Monitoring of EANET and for Monitoring of Inland Aquatic Environment (2007) v) Revised strategy paper for future Direction of Soil and Vegetation	STM 8/6  STM 8/8/1  STM 8/6  STM 8/8/6  STM 8/8/5

Monitoring of EANET (2007-2008)	
<u>Compilation, evaluation, storage and provision of data</u> i) Establishment of data verification system (2007)	STM 8/6
<u>Promotion of quality assurance and quality control (QA/QC) activities</u> i) Report on the evaluation of inter-laboratory comparison tests in 2001-2005 and improvement of laboratory analysis (2007)	STM 8/7
<u>Implementation of technical support and capacity building</u> i) Report on results of questionnaire on implementation of training initiatives in participating countries and by other relevant organizations (2006-2010)	STM 8/4/1
<u>Selection and review of priority substances to be assessed</u> i) Transparent framework for reviewing substances to be monitored (2006-2007) ii) Recommendations on monitoring parameters, measurements and equipment for EANET sites (2006-2007)	STM 8/8/5

### III. Action Required

7. Participants of STM8 are invited to note the implementation status of the activities related to the Strategy on EANET Development (2006-2010) to achieve the objectives of EANET, and for future development of EANET.



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## STRATEGY ON EANET DEVELOPMENT (2006-2010)

Annex

### Status of Implementation

#### i. Promotion of acid deposition monitoring

	Expected results and Outputs	Core/Additional	Period	Remarks
[1a]	Report on improvement of data completeness and on application of sampling/analytical equipment at the EANET monitoring sites (including recommendation for improvement of equipment and proposal on cooperation with equipment makers for technical support and maintenance of equipment)	Core/Additional	2007-2008	The progress of preparation of the report on improvement of data completeness and application of sampling/analytical equipment and the report on Joint project on catchment analysis with Thailand will be presented at STM and SAC.
[1b]	Recommendation on use of less expensive methods to reduce monitoring cost and increase numbers of monitoring sites	Core	2007-2008	A proposal on application of less expensive methods will be presented at STM and SAC
[2]	A set of Standard Operating Procedures (SOPs) for operational monitoring	Additional	2006-2007	This activity has started and will be completed by the end of 2007
[3]	Data sets of all the mandatory items to analyze spatial distribution and trends, and to estimate acid deposition fluxes for assessment of impact (e.g. critical load analysis, catchment analysis, etc.)	Core	2006-2010	NC is compiling the data sets required for data analysis and assessment of impacts. Discussions will be held with participating countries on additional mandatory monitoring parameters that are required.
[4]	Establishment of new EANET sites	Core	2007-2010	This activity should be supported by participating countries/donor agencies. This is one of the priority projects identified for submission to donor agencies and a concept paper is being prepared in consultation with experts, taking into account recommendations on appropriate density of sites

Expected results and Outputs		Core/Additional	Period	Remarks
[5]	Technical Manual for dry deposition fluxes estimation prepared by Task Force on Dry Deposition Monitoring	Additional	2008-2010	A paper on dry deposition flux estimation will be presented for discussion at STM and SAC
[6]	Estimation of dry deposition fluxes at the selected monitoring sites in selected EANET countries	Additional	2009-2010	-
[7]	A decision on the revision of Technical Manuals: for Wet Deposition Monitoring of EANET, and for Monitoring on Inland Aquatic Environment	Core	2007	A discussion paper on whether the technical manuals need to be revised will be presented at STM and SAC
[8]	A revised Strategy Paper for Future Direction of Soil and Vegetation Monitoring of EANET	Core	2007-2008	A paper on the proposed revised Strategy Paper will be presented at STM and SAC
[9]	Guidelines/methodologies for the future catchment monitoring	Additional	2007-2010	NC is presently accumulating data and information for development of the guidelines on catchment monitoring in 2010
[10]	Identification of area or regions susceptible to acid deposition damages	Additional	2008-2010	-

**ii. Compilation, evaluation, storage and provision of data**

Expected results and Outputs		Core/Additional	Period	Remarks
[11]	Databases of EANET monitoring data in NC and some participating countries	Core	2006-2010	An on-going activity of NC. Development of a special database (ACCESS) will start in 2008
[12]	Establishment of data verification system	Core	2007	An ongoing activity between NC and members of verification group in participating countries. A discussion paper will be presented at STM and SAC

[13]	Website for data downloads system and communication system.	Core	2006-2010	NC is studying appropriate methods and available systems.
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**iii. Promotion of quality assurance and quality control (QA/QC) activities**

	Expected results and Outputs	Core/Additional	Period	Remarks
[14]	Progress report on performance of EANET monitoring in participating countries ( including recommendation for QA/QC activities)	Core	2008-2010	-
[15]	Report on the evaluation of inter-laboratory comparison tests in 2001-2005 and improvement of laboratory analysis	Core	2007	A report will be presented at STM and SAC

**iv. Implementation of technical support and capacity building**

	Expected results and Outputs	Core/Additional	Period	Remarks
[16]	Report on results of questionnaires on implementation of training initiatives in participating countries and by other relevant organizations	Additional	2006-2010	An ongoing activity of NC. A report will be presented at STM and SAC in the Progress Report
[17]	A set of training materials (textbooks, reviews of basic knowledge with exercises, special topic brochures)	Additional	2006-2010	An ongoing activity of NC. A Textbook on Wet Deposition and Textbook on how to develop SOP was published in 2007. New materials will be developed (soil etc.) later
[18]	Support to current EANET monitoring activities in participating countries	Additional	2006-2010	NC will provide consumables and equipment on request to participating countries as appropriate
[19]	Providing necessary equipment for national EANET monitoring by means of projects supported by external resources	-	2006-2010	Will depend on external resources (JICA, etc)



**v. Producing periodic reports on the state of acid deposition in East Asia**

	Expected results and Outputs	Core/Additional	Period	Remarks
[20]	The first periodic report (end of 2006)	Core	2006	The First Periodic Report on State of Acid Deposition in East Asia is scheduled for completion by August 2007
[21]	Preparation of the next periodic report	Core	2009-2010	-
[22]	Guidance on monitoring data application for assessment reports such as trend analysis, assessment indicators, numerical modeling and data presentation design (before start of preparation of next periodic report)	Core	2007-2008	NC will acquire assessment tools and develop appropriate methodologies for future use in assessment reports. A discussion paper will be presented at STM and SAC in 2009

**vi. Promotion of research activities related to acid deposition problems**

	Expected results and Outputs	Core/Additional	Period	Remarks
[23]	Recommendation on general direction for research activities related to acid deposition problems in East Asia	Core	2006-2008	A discussion paper will be presented at STM and SAC
[24]	Recommendation on improvement of regional atmospheric transport/chemistry/ deposition models	Additional	2007-2010	A report recommending an appropriate model for the EANET region will be prepared based on outcomes of MICS-ASIA (Phase II) project
[25]	Support to initiatives of participating countries on atmospheric modeling and its application	Additional	2007-2010	Some funding may be considered to support activities in participating countries

**vii. Promotion of public awareness**

Expected results and Outputs		Core/Additional	Period	Remarks
[26]	Printed public awareness materials and updated e-Learning course and Web-pages	Additional	2006-2010	NC will develop/revise public awareness materials and update e-Learning course and Webpage as an ongoing activity. Translation of materials to various languages will depend on availability of funds from donor agencies.
[27]	Dissemination of information at a special session in high level meetings	(Additional)	2006	Will be implemented in 2008
[28]	Dissemination of information at other regional meetings	(Additional)	2006-2010	Ongoing activity of NC and Secretariat
[29]	New Report for Policy Makers	Additional	2008-2009	-

**viii. Other relevant activities including those for future development and new researches**

**viii-1. Modeling activities and emission inventories**

Expected results and Outputs		Core/Additional	Period	Remarks
[30]	Proposals on promotion of modeling activities and emission inventories	Additional	2007-2008	A pilot project on emission inventories will be as one of the priority projects for submission to donor agencies. NC is developing a brochure on emission inventories
[31]	Designation of suitable standard models of each scale for research/training application	Additional	2007	Japan is supporting a workshop to promote the understanding of emission inventories back-to-back with SAC7. The activity to designate suitable standard models will be considered later
[32]	Promotion of the training courses on application of the standard models including cooperation with other organizations	Additional	2006-2010	NC will acquire suitable software to promote training courses

**viii-2. Selection and review of priority substances to be assessed**

Expected results and Outputs		Core/Additional	Period	Remarks
[33]	Transparent framework for reviewing substances to be monitored	Additional	2006-2007	A discussion paper on the proposed framework will be presented at STM and SAC
[34]	Recommendation on monitoring parameters, measurements and equipment for EANET sites	Additional	2006-2007	This will be considered together with the above project. NC will propose the establishment of a Task Force for the review.
[35]	Reports on environmental/human effects of priority substances and their monitoring requirements with available information such as good practices and results of case studies in EANET region	Additional	2008-2009	-
[36]	Action plans for monitoring priority substances	Additional	2010	-

**viii-3. Promotion of formation of an “Epistemic Community”**

Expected results and Outputs		Core/Additional	Period	Remarks
[37]	Creating a network of experts concerning a wide range of issues of the atmospheric environment within EANET	Additional	2006-2010	Networking including information exchange with other relevant experts or international organizations and attending relevant meetings are ongoing activities at NC
[38]	Periodic issue of Newsletter	Additional	2006-2010	Ongoing activity of Secretariat and NC
[39]	Regional Workshop on Acid Deposition in one of the participating countries of EANET for scientific community, national governments, civil society, academia, private sector and other international experts and agencies	(Additional)	2006	Implemented in Thailand in 2006

**viii-4. Improvement and development of institutional arrangement**

Expected results and Outputs		Core/Additional	Period	Remarks
[40]	More transparent and efficient activities of EANET bodies including SAC, Task Forces and other sub-bodies	Additional	2006-2010	A second review report on the performance of the Secretariat and NC will be submitted to IG10 (ref. TOR WGFD(2007-2008))
[41]	Report on future development of EANET to establish a sound financial basis	Core	2006-2008	A report will be submitted by the Secretariat to IG10
[42]	Second report on future development of EANET	Core	2009-2010	-
[43]	Medium Term Plan for EANET (2011-2015)	Core	2009-2010	-