



AGENDA ITEM 4.1

Consideration of draft EANET Project Plans/ Project Concept Notes submitted to the Secretariat and the Network Center

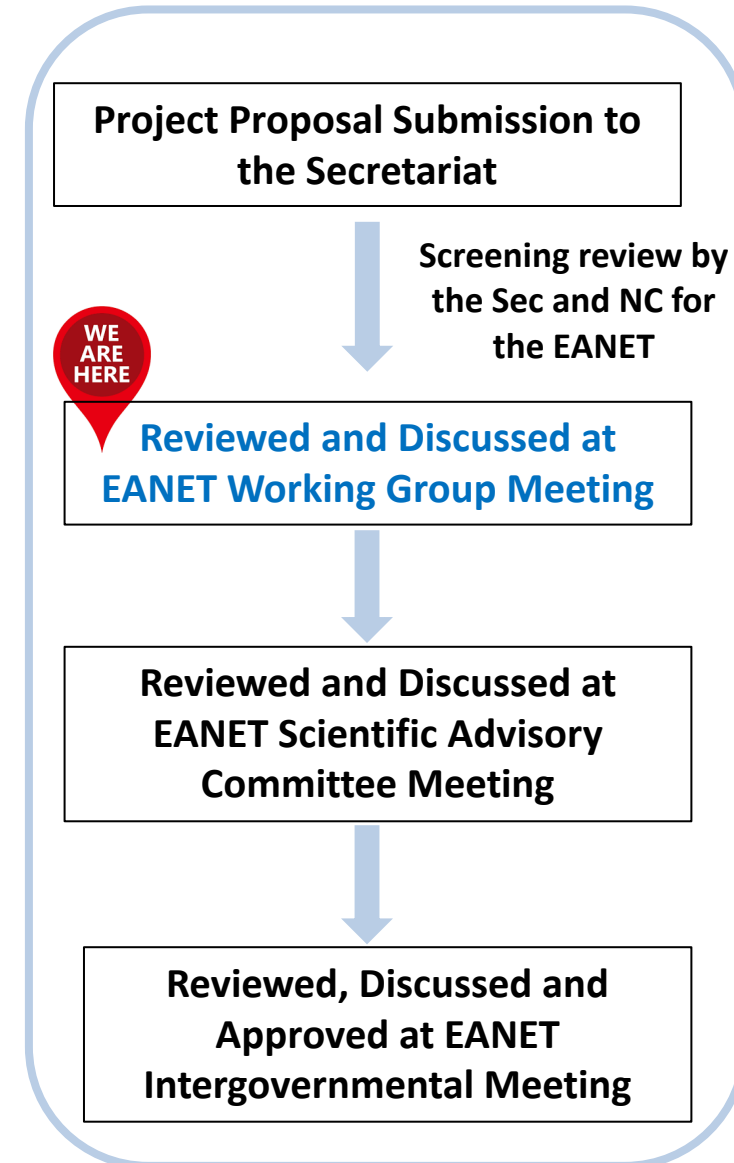
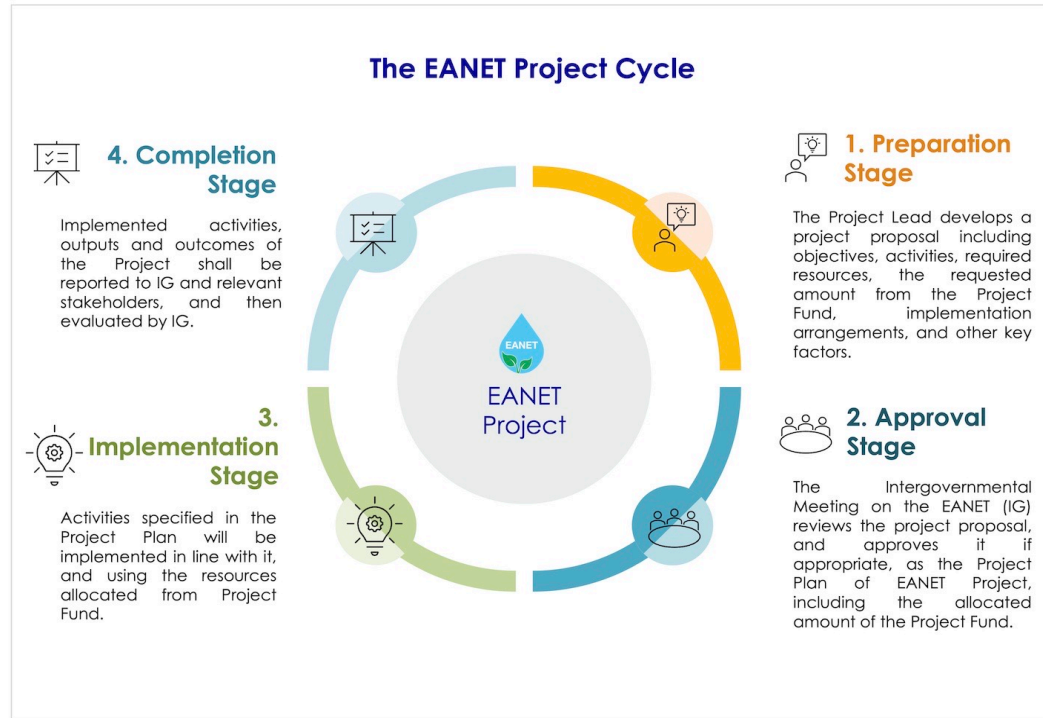
The Working Group Meeting of the Acid Deposition Monitoring Network (EANET) in East Asia in 2022

24-25 August 2022/ Virtual Meeting

I. INTRODUCTION

- Agenda item was acknowledged by the Bureau of the EANET to the Secretariat (SEC) and the Network Center (NC) on 10 May 2022 and then sent to all National Focal Points on 1 July 2022
- The NC and the SEC summarized the draft project concept notes/plans in 2023 that have been submitted to the SEC.
- 8 project project plans/ concept notes were submitted to the SEC for the EANET by the end of July 2022.

II. EANET Project Cycle and Procedure for Its Approval



III. Submitted EANET Project Plans and Concept Notes

[2023-01] Studies on the effects of atmospheric deposition on ecosystems, from a catchment scale to a regional scale

[2023-02] The Feasibility for promoting VOCs related Capacity Building in the EANET

[2023-03] Methodology Study for Development of LCS Hybrid Air Quality Monitoring Network (HAQMN)

[2023-04] PM_{2.5} source apportionment in major cities in EANET for recommendations on feasible reduction policy

[2023-05] Promotion of capacity building for personnel of the participating countries on monitoring

[2023-06] The webinar workshop for capacity building on emission inventory for combustion sources

[2023-07] Seminars for Acid Deposition/Air Pollution effects on human health and ecosystem

[2023-08] Research Fellowship program

IV. Submitted Project Plans and Budget

Project List	Total	Expected Budget			In-kind contribution (with estimated equivalent USD, if possible)
		EANET Project Fund	Co-Finance from PCs	Co-Finance from Others	
[2023-01] Studies on the effects of atmospheric deposition on ecosystems, from a catchment scale to a regional scale, proposed by the NC	98,000 (per year)/ 288,000 (for three years)	30,000 (per year)/ 90,000 (for three years)	30,000 (per year)/ 90,000 (for three years)		38,000 (for JFY2023)/ 108,000 (for three years)
[2023-02] The Feasibility for promoting VOCs related Capacity Building in the EANET , proposed by the MOEJ	60,000	30,000	30,000		
[2023-03] Methodology Study for Development of LCS Hybrid Air Quality Monitoring Network (HAQMN) , proposed by the NC	160,000 in 2023/230,000 in total	80,000 in 2023/115,000 in total	80,000 in 2023/115,000 in total		From three organization: MoNRE-VN-IMHEN
[2023-04] PM_{2.5} source apportionment in major cities in EANET for recommendations on feasible reduction policy, proposed by the NC	10,000	5,000	5,000		PCD, Thailand
[2023-05] Promotion of capacity building for personnel of the participating countries on monitoring, proposed by the NC	80,000	40,000	40,000		
[2023-06] The webinar workshop for capacity building on emission inventory for combustion sources, proposed by the NC	12,000	6,000	6,000		JARI, NIES
[2023-07] Seminars for Acid Deposition/Air Pollution effects on human health and ecosystem, proposed by the NC	19,000	9,500	9,500		
[2023-08] Research Fellowship program, proposed by the NC	40,000	20,000	20,000		

V. Summary of Criteria Checking for Submitted Project Plans

Project Plans	Satisfied	Should be Improved	Remarks
[2023-01] Studies on the effects of atmospheric deposition on ecosystems, from a catchment scale to a regional scale, proposed by the NC		✓	Budgeting issue is under discussion.
[2023-02] The Feasibility for promoting VOCs related Capacity Building in the EANET, proposed by the MOEJ		✓	Budgeting issue is under discussion.
[2023-03] Methodology Study for Development of LCS Hybrid Air Quality Monitoring Network (HAQMN), proposed by the NC		✓	Budgeting issue is under discussion.
[2023-04] PM _{2.5} source apportionment in major cities in EANET for recommendations on feasible reduction policy, proposed by the NC		✓	Budgeting issue is under discussion.
[2023-05] Promotion of capacity building for personnel of the participating countries on monitoring, proposed by the NC		✓	This activity is provided to discuss the necessity of implementation as EANET Project and budgeting issue at WG meeting. The advice or comments for this activity will be gathered from the EANET PCs.
[2023-06] The webinar workshop for capacity building on emission inventory for combustion sources, proposed by the NC		✓	Budgeting issue is under discussion.
[2023-07] Seminars for Acid Deposition/Air Pollution effects on human health and ecosystem, proposed by the NC		✓	Budgeting issue is under discussion.
[2023-08] Research Fellowship program, proposed by the NC		✓	This activity is provided to discuss the necessity of implementation as EANET Project and budgeting issue at WG meeting. The advice or comments for this activity will be gathered from the EANET PCs.

VI. The SEC and NC's Comments on EANET Project Plans in 2023

Project List	Total (USD)	Preliminary Review		Review		
		Project Criteria Checking	NC/ Secretariat Comments, if any	WG	SAC	IG
[2023-01] Studies on the effects of atmospheric deposition on ecosystems, from a catchment scale to a regional scale, proposed by the NC	98,000	✓	Budgeting issue should be further confirmed			
[2023-02] The Feasibility for promoting VOCs related Capacity Building in the EANET, proposed by the MOEJ	60,000	✓	Budgeting issue should be further confirmed			
[2023-03] Methodology Study for Development of LCS Hybrid Air Quality Monitoring Network (HAQMN), proposed by the NC	160,000	✓	Budgeting issue should be further confirmed			
[2023-04] PM _{2.5} source apportionment in major cities in EANET for recommendations on feasible reduction policy, proposed by the NC	10,000	✓	Budgeting issue should be further confirmed			
[2023-05] Promotion of capacity building for personnel of the participating countries on monitoring, proposed by the NC	80,000	✓	Necessity of implementation as EANET Project and budgeting issue should be further confirmed			
[2023-06] The webinar workshop for capacity building on emission inventory for combustion sources, proposed by the NC	12,000	✓	Budgeting issue should be further confirmed			
[2023-07] Seminars for Acid Deposition/Air Pollution effects on human health and ecosystem, proposed by the NC	19,000	✓	Budgeting issue should be further confirmed			
[2023-08] Research Fellowship program, proposed by the NC	40,000	✓	Necessity of implementation as EANET Project and budgeting issue should be further confirmed			

VII. Brief Introduction of Submitted EANET Project Plans in 2023

[2023-01] Studies on the effects of atmospheric deposition on ecosystems, from a catchment scale to a regional scale (Draft)

- Duration of project: 3 years [2023 –2025]
- Total budget: 98,000 USD
- This project provides the knowledge on responses of forest ecosystems, from a catchment scale to a regional scale. Long-term trends at a forested catchment in Niigata, Japan and other catchment-related EANET data will be assessed taking account of interlinkages with extreme weather.
- Appropriate methodologies for impact assessments on a regional scale will also be studied in cooperation with other research groups in the EANET PCs and the MICS-Asia community.
- Scientific outcomes obtained through the activities above will be shared with the EANET PCs not only through scientific publications but also through EANET meetings and thematic workshops/seminars.
- Screening Review Status: Should be improved; budgeting issue is under discussion

[2023-02] The Feasibility for promoting VOCs related Capacity Building in the EANET (Draft)

- Duration of project: 1 year
- Total budget: 60,000 USD
- Understand the VOCs monitoring status in EANET, based on understanding of VOCs status in pilot cities.
- Capacity building towards preparing for the VOCs monitoring in pilot cities.
- Formulate policy implication to improve the VOCs management in coordinately controlling PM2.5 and ozone and provide VOCs related policy recommendations to the pilot cities and other activities including VOCs related researches with pilot cities.
- Screening Review Status: Should be improved; budgeting issue is under discussion

[2023-03] Methodology Study for Development of LCS Hybrid Air Quality Monitoring Network (HAQMN) (Draft)

- Duration of project: 2 Years [2023 –2024]
- Total budget: 160,000 USD
- Research the accuracy of air quality monitoring using several types of low-cost sensors compared to a reference level monitors on a trial basis under various air quality and climate conditions in EANET participating countries.
- Develop practical technical documents that would support the introduction and operation of the hybrid air quality monitoring network (HAQMN) in EANET participating countries.
- Screening Review Status: Should be improved; budgeting issue is under discussion

[2023-04] PM_{2.5} source apportionment in major cities in EANET for recommendations on feasible reduction policy (Draft)

- Duration of project: 2 Years [2023 –2024]
 - Total budget: 10,000 USD
 - Assess PM_{2.5} source contributions using the data of organic substances and other components in PM_{2.5} collected in EANET participating countries.
 - PM_{2.5} samples are collected in major cities in EANET, and the chemical components of PM_{2.5} such as ions, carbonaceous compounds, trace elements and organic markers will be analyzed.
 - Regional and seasonal characteristics of the chemical components of PM_{2.5} will be clarified.
 - Finally, PM_{2.5} source contributions is evaluated by the receptor models and the time profiles of the chemical components PM_{2.5}.
 - Screening Review Status: Should be improved; budgeting issue is under discussion
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[2023-05] Promotion of capacity building for personnel of the participating countries on monitoring (Draft)

- Duration of project: 1 Year
- Total budget: 80,000 USD
- **In-person training for lab activity**

Measurement of pH, EC, ions, making Filter Pack (FP) filters, extracting FP samples, filtration of FP and rain samples, Ion Chromatograph (IC) analysis and checking results of IC, practicing maintenance of PM2.5 monitor and calibration of ozone monitor, site visit etc.

- **Online training of lecture**

Atmospheric deposition, automatic monitor maintenance (PM2.5, O3 monitor etc.), IC lecture (principle, troubleshooting etc.), data analysis, Soil and vegetation/Inland aquatic environment.

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[2023-06] The webinar workshop for capacity building on emission inventory for combustion sources (Draft)

- Duration of project: 1 Year
- Total budget: 12,000 USD
- Provide a capacity building opportunity to learn emission inventory focusing on combustion sources by holding a webinar workshop.
- Understand roles of emission inventory in air quality management.
- Learn basic methodologies to estimate emissions from major stationary and mobile combustion sources.
- Information sharing of status and control measures of emissions from major combustion sources in PCs that is expected to provide references for considering and updating air pollution policies related to participants.
- Screening Review Status: Should be improved; budgeting issue is under discussion

[2023-07] Seminars for Acid Deposition/Air Pollution effects on human health and ecosystem (Draft)

- Duration of project: 1 Year
- Total budget: 19,000 USD
- To obtain scientific knowledge on the relationships between the atmospheric environment and human health including epidemiological methodology and between the atmospheric environment and ecosystems.
- To learn science-based policy experiences on reduction of atmospheric pollutants in other regions, such as Europe.
- Screening Review Status: Should be improved; budgeting issue is under discussion

[2023-08] Research Fellowship program (Draft)

- Duration of project: 1 Year
- Total budget: 40,000 USD
- About four researchers are invited among applicants to come to ACAP and implement research study for 8 weeks under supervision of senior researchers of ACAP as the supervisor for the research fellow.
- The theme of research study is flexible if it is relevant to EANET.
- This activity has been carried out annually since 2005 for one/two researchers in EANET participating countries.
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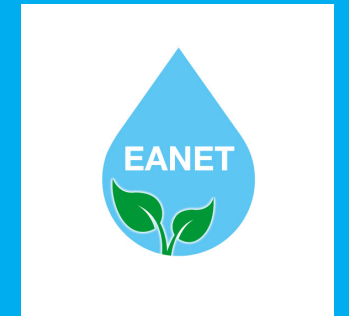
VIII. Actions Required

- The Working Group Meeting in 2022 is invited to review the Draft EANET Project Plans in 2023 and may wish to consider, discuss, provide guidance, and make recommendations to SAC22 and IG24 for its review, guidance, and approval, as appropriate.

EANET Project Plans in 2023

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Thank you



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