

# **The EANET webinar workshop for emission inventory of VOCs and its application for policy consideration**

## **Outline**

### **1. Background**

Volatile Organic Compounds (VOCs) are a group of organic chemicals that have a high vapor pressure and comprise various components with different chemical characteristics. In addition to toxic effects of some VOCs, considering atmospheric environmental problems in EANET participating countries, important roles of VOCs are precursors of ozone and secondary PM<sub>2.5</sub>.

To tackle severe air pollution problems, it is essential to understand the status of VOCs emissions and consider effective mitigation measures. Emission inventory is essential to obtain such information and helps to make appropriate atmospheric environmental policies. However, VOCs emissions are from varieties of sources especially evaporative sources such as solvent use, extraction processes of fossil fuels, and evaporative emissions from gasoline vehicles and thus, a lot of data and information is necessary to estimate emissions of VOCs. Furthermore, in addition to anthropogenic emissions, biogenic sources are important for VOCs emissions. Therefore, the framework for national emission inventory of VOCs is different from other sources.

### **2. Objectives**

The objectives of the Emission Inventory Webinar Workshop are to learn basic methodologies to estimate emissions of VOCs from stationary sources and road transport especially for evaporative sources as well as from biogenic sources. In addition, roles of emission inventory in atmospheric environmental management, air quality modeling of VOCs and control measures of VOCs are introduced as applications of emission inventories for policy consideration.

### **3. Organizer**

Asia Center for Air Pollution Research (ACAP), The Network Center for EANET (NC)

### **4. Date, Duration, and Format**

Date: 4 December 2024

Duration: ICT 12:30-16:35 (= UTC 5:30-9:30)

Format: Online (The web link of the webinar workshop will be provided to registered participants.)

### **5. Target Participants**

Technical officers, practitioners, and policymakers who are engaged in atmospheric environmental management issues, especially in charge of or interested in developing national emission inventory.

Note that one representative presenter from each EANET participating country needs to be nominated among participants by the National Focal Points (NFPs) of each country and is requested to make a short presentation about atmospheric environmental issues related to VOCs and in each country at the workshop.

## 6. Program (Time is in ICT = UTC+7)

Duration	Program Item	
<b>Opening</b>		
12:30-12:35	<b>Opening remarks</b> <b>Dr. Toshimasa Ohara</b> , the Network Center of EANET/Director General of Asia Center for Air Pollution Research	
12:35-12:40	<b>Introduction of the webinar workshop &amp; Group Photo</b>	
<b>Session 1</b>	<b>Lecture presentations from experts<sup>1</sup> (Titles are tentative)</b>	
12:40-13:10	<b>Introduction of emission inventory and VOCs emissions from stationary sources</b> <b>Dr. Jun-ichi Kurokawa</b> , Asia Center for Air Pollution Research, Japan	
13:10-13:40	<b>VOCs emissions from road transport</b> <b>Dr. Tazuko Morikawa</b> , Japan Automobile Research Institute, Japan	
13:40-14:10	<b>NMVOCs emissions from biogenic sources</b> <b>Dr. Justin Sentian</b> , Universiti Malaysia Sabah, Malaysia	
14:10-14:40	<b>Air quality modeling of NMVOCs</b> <b>Dr. Satoru Chatani</b> National Institute for Environmental Studies, Japan	
14:40-15:10	<b>Control measures of VOCs: Case study of Saitama Prefecture of Japan</b> <b>Dr. Shinichi Yonemochi</b> , Center for Environmental Science in Saitama, Japan	
<b>Session 2</b>	<b>Presentations from participants nominated by NFPs of EANET</b> <ul style="list-style-type: none"> <li>• What are major VOCs sources and how the emissions are estimated or evaluated in your country</li> <li>• How VOCs emissions influence air quality and what are current control measures in your country</li> <li>• Opinions for EANET project activities related to VOCs emissions including national emission inventories</li> </ul>	
15:10-15:20	Malaysia	<b>Dr. Mohan Kumar Sammathuria</b> Atmospheric Sciences and Cloud Seeding, Malaysian Meteorological Department
15:20-15:30	Mongolia	<b>Mr. Barkhasragchaa Baldorj</b> Environmental monitoring division of Central Laboratory of Environment and Metrology
15:30-15:40	Myanmar	<b>Ms. Witt Yi Soe</b> Hydrological Division, Department of Meteorology and Hydrology, Ministry of Transport and Communication

15:40-15:50	Philippines	<b>Engr. Angelo Villagas</b> Air Quality Management Section, Environmental Management Bureau, Department of Environment and Natural Resources
15:50-16:00	Thailand	<b>Dr. Sarawut Thepanondh</b> Faculty of Public Health, Mahidol University
16:00-16:10	Vietnam	<b>Mr. Viet Tung Tran</b> Center for Environmental Research, Institute Meteorology, Hydrology and Climate change
16:10-16:30	Q & A for the presentations from participants General discussion among participants and experts	
<b>Closing</b>		
16:30-16:35	<b>Short announcements and Closing</b>	

<sup>1</sup>Each lecture presentation includes time for Q & A.

Join Zoom Meeting

<https://us02web.zoom.us/j/85261130600?pwd=adoxoQAI2fMAi1gvQvT2M8cCuYkzvr.1>

Meeting ID: 852 6113 0600

Passcode: 175814