



United Nations Office for  
Sustainable Development  
Incheon - ROK

## CONCEPT NOTE

### GREENHOUSE GAS INVENTORY SYSTEM TRAINING WORKSHOP

10-13 September, 2018, Bangkok, The Kingdom of Thailand

*Organized by the United Nations Office for Sustainable Development (UNOSD) in collaboration with Korea Environment Corporation (K-eco) and Thailand Greenhouse Gas Management Organization (TGO)*

#### 1. Rationale

The 2030 Agenda for Sustainable Development was adopted by the UN Member States in September 2015 including 17 Sustainable Development Goals (SDGs) and 169 associated targets. Among these 17 SDGs, Climate Action (SDG 13) aims to take urgent action to combat climate change and its impacts through training activities, raising awareness and strengthening human and institutional capacities on climate change mitigation, adaptation, impact reduction and early warning.

To address the growing concerns on climate change and its impacts, 179 UN Member States ratified the Paris Agreement. Under the Agreement, all Member States agreed to work to limit the global temperature rise to well below 2 degrees Celsius above pre-industrial levels, and given the grave risks, to pursue efforts to limit the temperature increase even further to 1.5 degrees Celsius. This can be done by leveraging investments and financial flows, advancement of technology and building enhanced capacities. According to the Agreement, each Party has to set up their own greenhouse gas (GHG) reduction target, officially communicated through its Nationally Determined Contributions (NDCs), and monitor their national level GHG emissions. Each Party is required to report regularly on its national GHG emissions as well as its implementation efforts of GHG mitigation actions.

In terms of GHG emissions, 33.4 gigatons of GHG were released into the atmosphere in 2017. During the same period, the Asia Pacific region emitted 16.3 gigatons of GHG emissions which accounted for 48.8% of the global total. Meanwhile, Europe and Asia, combined, produced 6.4 gigatons of GHG emissions (19%), a figure that is less than half of the Asia Pacific's GHG emissions. Under these circumstances, the Asia Pacific region plays a crucial role in reducing and managing GHG emissions. As the largest emitting region in the world, the participation of countries in the Asia Pacific region is key to achieving GHG reduction goals. An initial step is to reduce GHG emissions by establishing a transparent and reliable GHG inventory system to monitor and verify the current state of emissions. The GHG inventory system provides a basic approach in organizing monitoring, reporting, and verifying (MRV) procedures in each country.

In view of the above, the UN Office for Sustainable Development (UNOSD) will play an active role in capacity building of Asian countries in tackling climate change by holding the GHG Inventory System Training Workshop in Bangkok, Thailand. Thailand is one of the leading countries of ASEAN (The Association of South-East Asian Nations) when it comes to energy and environment policies along with its Low Carbon City (LCC) programme. The LCC programme contains data and information that could feed into the national GHG inventory and the measurement of mitigation actions. It will be a great opportunity to share their experience and best practices with participants of the workshop.

With this backdrop, the GHG Inventory System Training Workshop will be hosted by the United Nations Office for Sustainable Development in cooperation with the Korea Environment Corporation (K-ECO) and Thailand Greenhouse Gas Organization. The workshop is designed to provide necessary skillsets and knowledge to build GHG inventory systems and facilitate general understanding of climate change policies as well as the 2030 Agenda and the SDGs.

## **2. Objectives and Outputs**

The objectives of the training workshop include, but is not limited to the following:

- Capacity development of policymakers, policy shapers and working-level staff members in governments, think tanks, private sector and civil society in the Asian region on the 2030 Agenda and the SDGs;
- Contribution to the implementation of GHG inventory system in different countries and understanding technical aspect of climate change such as emission trading and GHG reduction technologies;
- Exchange of advanced knowledge and experiences on climate change and advancing networks among participating organizations, countries and regions to promote the implementation of SDGs and Climate Action.

## **3. Participants and Format**

Approximately 40 participants from Asian countries will participate in the workshop. Various speakers from government officials, 3<sup>rd</sup> party verifier and sustainable development and climate change experts will contribute to facilitating a productive and effective workshop by sharing their knowledge and experiences with the participants.

The workshop is structured around the 2030 Agenda, the SDGs, the IPCC Guideline for GHG inventory and Climate Action Policies. Focusing on the facts that SDG 13 and the Guideline are interconnected, and this workshop can contribute to increasing the capacities of participants to set up GHG inventory system and manage their GHG emissions.

Following an introductory session on the main concepts of the 2030 Agenda and the SDGs, subsequent session will cover the IPCC Guidelines to calculate GHG emissions amount at the national level. The subsequent sessions will be devoted to the emission trading scheme such

as CAP setting, emission trading market and their linkages. For the last session, it will be shared and discussed on GHG reduction technologies such as renewable energy.

Through this workshop, participants will be equipped with technical knowledge on calculating GHG emissions which can be applied to their own countries' policies in tackling climate change. Furthermore, participants can understand diverse policies and global discussions regarding sustainable development and climate change.

Korea Environment Corporation (K-eco) will organize a half-day field trip for the participants to a project site that demonstrates Thailand's efforts to mitigate GHG emissions. Thailand Greenhouse Gas Management Organization (TGO) will provide a welcoming dinner reception for the participants.

#### 4. Programme

Day One Monday, 10 September 2018	
Time	Module
09:00 – 09:30	Registration
09:30 – 09:45	Opening Remarks (Ms. Eunhae Jeong, Senior Development Management Expert, UNOSD)
	Welcome Address (Dr. Wijarn Simachaya, Permanent Secretary, Ministry of Natural Resources and Environment, Thailand)
09:45 – 10:00	Outline of Course (Mr. Okhyun Yang, Associate Research and Policy Expert, UNOSD)
10:00 – 10:20	Photo Session and Break
10:20 – 10:50	Introduction of Participants
10:50 – 11:50	Overview of Nationally Determined Contributions(NDCs) and NDCs Financing in Developing Nations (Mr. Dharma K.C, Director, Climate Advocacy International, Nepal)
11:50 – 13:00	Lunch

13:00 – 14:30	Achieving SDGs by 2030 : Importance of Climate Change Regime under the Paris Agreement (Dr. Suhyong Chung, Professor, Division of International Studies, Korea University, Republic of Korea)
14:30 – 15:30	Policies of Republic of Korea on Climate Change (Dr. Minhoo Lee, Professor, Department of Environmental Science and Engineering, Kyung Hee University, Republic of Korea)
15:30 - 15:50	Break
15:50 – 16:50	Main Contents of 2006 IPCC (The Intergovernmental Panel on Climate Change) Guideline - Vol.1(General Guidance Reporting) (Mr. Dharma K.C, Director, Climate Advocacy International, Nepal)
16:50 – 17:40	Main Contents of 2006 IPCC Guideline - Vol.2 (Energy) (Mr. Mert Engin, Senior Consultant, Kağıtsokağı, Turkey)
<b>Day Two Tuesday, 11 September 2018</b>	
<b>Time</b>	<b>Module</b>
09:00 – 09:50	Main Contents of 2006 IPCC Guideline - Vol.3 (Industrial Processes and Product Use) (Dr. Heejeong Yim, Director, Erdeliebe Institute, Republic of Korea)
09:50 - 10:40	Main Contents of 2006 IPCC Guideline - Vol.4 (Agriculture, Forestry and Other Land Use) (Dr. Patthra Pengthamkeerati, Associate Professor, Environmental Technology and Management Faculty of Environment, Kasetsart University, Thailand)
10:40 - 11:00	Break
11:00 - 12:00	Main Contents of 2006 IPCC Guideline - Vol.5 (Waste) (Mr. Christopher Eric Godlove, Founding Principal, THINKCities Consulting, Belgium)
12:00 – 13:00	Lunch

13:00 – 14:00	Tools and Guidance for Assessing Impacts of Policies and Actions (Ms. Cynthia Elliot, Associate Research, WRI(World Resources Institute), USA)
14:00 – 15:00	Measuring, Reporting and Verification (MRV) (Mr. Sathishkumar Nagarajan, Senior Manager, Ernst & Young LLP, Singapore)
15:00 - 15:20	Break
15:20 – 16:40	Practical Exercise - Calculating GHG emissions (Mr. Yungyul Choi, 3 <sup>rd</sup> Party verifier, Korean Foundation for Quality, Republic of Korea)
16:40 – 18:00	Group Work
<b>Day Three Wednesday, 12 September 2018</b>	
<b>Time</b>	<b>Module</b>
09:00 – 10:00	Setting the National CAP of Republic of Korea(NDC and GHG Reduction Roadmap) (Mr. Jonghchul Bang, Environment Researcher, GHG Inventory & Research Center of Korea(GIR), Republic of Korea)
10:00 – 11:00	Emissions Trading and the linkage among Countries (Mr. Quoqiang Qian, Deputy General Manager, SinoCarbon Innovation & Investment Co. Ltd., China)
11:00 – 13:00	Moving to the Sunny Bangchak (Lunch Box will be provided to all participants)
13:00 – 18:00	Field Trip (Korea Environment Corporation) - The Sunny Bangchak (Solar Power 38MW) - Bang Pa-in district, Ayutthaya province
18:00 – 20:00	Dinner Reception (Thailand Greenhouse Gas Management Organization) - Thai-International Buffet Cruise - Chaophraya river
<b>Day Four Thursday, 13 September 2018</b>	
<b>Time</b>	<b>Module</b>

09:00 – 10:00	Obtaining Financial Support for GHG Mitigation Projects from the Green Climate Fund (Mr. Andrei Chicherin, Senior Project Finance Specialist, Green Climate Fund, Republic of Korea)
10:00 – 11:30	Group Presentation
11:30 - 11:40	Wrap up / Conclusion
11:40 – 12:00	Closing remarks

## **5. Schedule and Venue**

The workshop will be held from 10 to 13 September 2018 at the UNESCAP, The United Nations Building, Rajadamnern Nok Avenue in Bangkok, The Kingdom of Thailand.

## **6. Organisers**

This workshop will be organized by UNOSD in cooperation with the Korea Environment Corporation (K-eco) and Thailand Greenhouse Gas Management Organization (TGO).