



## Concept Note

### The 5<sup>th</sup> GREENHOUSE GAS INVENTORY SYSTEM TRAINING WORKSHOP

13-16 February 2023, ESCAP Meeting Room A, Bangkok, Thailand

*Organizers: United Nations Office for Sustainable Development (UNOSD), United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), and Thailand Greenhouse Gas Management Organization (TGO)*

#### Background

The globe is on the verge of climate catastrophe, and the way to avert it is collapsing rapidly. Record-breaking heatwaves, droughts, and floods as a result of climate change are affecting billions of people around the world and getting millions of species at stake. It is clear that we are facing a global crisis that requires urgent action more than ever.

Climate action is more than just one of the 17 Sustainable Development Goals (SDGs) specified in the 2030 Agenda for Sustainable Development. It is a threat multiplier with the potential to worsen some of humanity's greatest challenges, including health, poverty and hunger. As climate change and Sustainable Development are closely interlinked, achieving SDGs by 2030 heavily relies on addressing the climate crisis.

With an aim to limit global warming to a maximum of 2°C under the Paris Agreement, countries all agreed to report the current status of Greenhouse Gas (GHG) emissions and regularly update the mitigation plans in Nationally Determined Contributions (NDCs). A reliable information inventory should be established first in order to set the target for GHG reduction transparently.

The GHG inventory system plays a major role for countries to measure the current amount of emissions, make projections for future scenarios, and report the achievement of their national objectives. It also provides a better understanding of current climate actions and policies, as well as the level of improvement needed to reach carbon neutrality. National greenhouse gas inventory is the basis of the Enhanced Transparency Framework (ETF) established under the Paris Agreement and is essential for the fulfillment of reporting obligations of the Agreement.

While Asia including the Pacific region emits the largest volume of GHG, producing about half the world's carbon dioxide,<sup>1</sup> they are still having difficulty managing and collecting the GHG-related data.<sup>2</sup> In this context, this year's workshop is designed to provide an in-person training course including lectures and exercises on GHG Inventory System for government officials and experts from Asia.

#### Objectives and Expected Outcomes

The 5<sup>th</sup> Greenhouse Gas Inventory System Training Workshop aims to provide an opportunity for developing countries from Asia to build capacity and engage in policy dialogue on utilizing

<sup>1</sup> <https://www.imf.org/en/Blogs/Articles/2021/03/25/asia-pacific-the-gigantic-domino-of-climate-change>

<sup>2</sup> [https://www.unescap.org/sites/default/d8files/knowledge-products/ESCAP-2022-FG\\_SDG-Progress-Report.pdf](https://www.unescap.org/sites/default/d8files/knowledge-products/ESCAP-2022-FG_SDG-Progress-Report.pdf)

national GHG inventories for the design and implementation of NDCs under the Paris Agreement. The workshop is expected to have the following outcomes:

- Enhance capacity of government officials and experts on enhancing GHG inventory system by experiencing hands-on actual GHG estimation practice based on 2006 IPCC guideline;
- Exchange of advanced knowledge and experiences of national governments in the Asia region on developing GHG inventory systems;
- Advancing networks among participating organizations, countries, and regions to promote the implementation of the Paris Agreement.

### **Target Audience**

This workshop aims to engage up to 50 government officials and representatives, national research institutions, and academia particularly from Asian countries, concerned directly with the development and management of national GHG inventory systems. Priorities for participation will be given to the attendees who joined the online workshops held in 2021 and 2022 at least once.

### **Schedule and Format**

The workshop will be held in a hybrid format from 13 to 16 February 2023 in Bangkok, Thailand as some of the speakers will be participating in the [workshop online](#). The entire workshop will be conducted in English.

### **Organizers**

This workshop will be organized by the United Nations Office for Sustainable Development (UNOSD), United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), and Thailand Greenhouse Gas Management Organization (TGO).

## Agenda

| Day 1, 13 February 2023 (Mon) |   |
|-------------------------------|---|
| Time                          | Module  |
| 09:00 – 09:30<br>(30')        | Registration  |
| 09:30 – 09:45<br>(15')        | <b>Opening and Welcome Remarks</b><br><i>Moderator</i><br>- Ms. Chaela Shin, Associate Research and Policy Development Expert, UNOSD<br><b>Speaker</b><br>- Mr. Chun Kyoo Park, Head of Office, UNOSD<br>- Mr. Sangmin Nam, Director, Environment and Development Division, UNESCAP<br>- ONEP (TBC) |
| 09:45 – 10:00<br>(15')        | Outline of the workshop and introduction of participants<br><b>Speaker</b><br>- Ms. Chaela Shin, Associate Research and Policy Development Expert, UNOSD  |
| 10:00 – 10:20<br>(20')        | Photo Session and Coffee Break  |
| 10:20 – 11:10<br>(50')        | Main Contents of 2006 IPCC (The Intergovernmental Panel on Climate Change) Guideline - Vol.1 (General Guidance Reporting)<br><b>Speaker</b><br>- Mr. Dharma K.C, Director, Climate Advocacy International, Nepal  |
| 11:10 – 12:30<br>(80')        | Main Contents of 2006 IPCC Guideline - Vol.2 (Energy)<br><b>Speaker</b><br>- Ms. Veronika Ginzburg, IGCE (Online participation, TBC)  |
| 12:30 – 13:30<br>(60')        | Lunch   |
| 13:30 – 14:50<br>(80')        | Case Study and GHG Estimation Practice in Energy Sector<br><b>Speaker</b><br>- Ms. Veronika Ginzburg, IGCE (Online participation, TBC)  |
| 14:50 – 15:30<br>(40')        | Article 6 of the Paris Agreement: A key tool to boost climate ambition<br><b>Speaker</b><br>- Mr. Virender Kumar Duggal, Principal Climate Change Specialist, Sustainable Development and Climate Change Department, ADB (TBC)  |
| 15:30 – 15:50<br>(20')        | Coffee Break  |
| 15:50 – 16:20<br>(30')        | The Role of GHG Inventory System in Accelerating Climate Action<br><b>Speaker</b><br>- Aneta Nikolova, Environment Affairs Officer, EDD, UNESCAP (TBC)  |
| Day 2, 14 February 2023 (Tue) |   |
| Time                          | Module  |
| 09:10 – 09:30<br>(20')        | Registration  |
| 09:30 – 10:40<br>(70')        | Main Contents of 2006 IPCC Guideline - Vol.3 (Industrial Processes & Product Use)<br><i>Moderator</i><br>- Ms. Wonju Kim, Team Assistant, UNOSD<br><b>Speaker</b><br>- Ms. Heejeong Yim, Director, Erdeliebe Institute  |
| 10:40 – 11:00<br>(20')        | Coffee Break  |
| 11:00 – 11:30<br>(30')        | Case Study in Industrial Processes and Produce Use<br><b>Speaker</b><br>- Ms. Heejeong Yim, Director, Erdeliebe Institute   |

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| 11:30 – 13:00<br>(90')               | Lunch  |
| 13:00 – 13:30<br>(30')               | GHG Estimation Practice in Industrial Processes and Produce Use<br><b>Speaker</b><br>- Ms. Heejeong Yim, Director, Erdeliebe Institute   |
| 13:30 – 14:20<br>(50')               | Main Contents of 2006 IPCC Guideline Vol.4 (Agriculture, Forestry and Other Land Use)<br><b>Speaker</b><br>- Ms. Mirella Salvatore, Climate Change Officer, Food and Agriculture Organization of the United Nations (FAO)  |
| 14:20 – 14:30<br>(10')               | Break  |
| 14:30 – 15:10<br>(40')               | Experience of Building and Operating Korean National GHG Inventory System<br><b>Speaker</b><br>- Mr. Hyung Wook Choi, Director of GHG Inventory Management Team, GHG Inventory & Research Center of Korea (GIR), Republic of Korea   |
| 15:10 – 15:30<br>(20')               | Coffee Break   |
| 15:30 - 16:20<br>(50')               | Main Contents of 2006 IPCC Guideline Vol.5 (Waste)<br><b>Speaker</b><br>- Mr. Bojan Batinic, Associate professor, Center of Excellence for climate and circular economy in Novi sad Serbia   |
| 16:20 – 17:00<br>(40')               | Case Study and GHG Estimation Practice in the Waste Sector<br><b>Speaker</b><br>- Mr. Bojan Batinic, Associate professor, Center of Excellence for climate and circular economy in Novi sad Serbia   |
| <b>Day 3, 15 February 2023 (Wed)</b> |  |
| <b>Time</b>                          | <b>Module</b>  |
| 09:10 – 09:30<br>(20')               | Registration   |
| 09:30 – 10:40<br>(70')               | UNFCCC and ESCAP collaboration to promote CPI (Carbon Pricing Instruments) as a tool for implementation of Paris Agreement<br><b>Speakers</b><br>- Mr. Jens Radschinski, UNFCCC/RCC -Bangkok Regional Coordinator on CiACA and ReDICAP activities in Asia-Pacific<br>- Ms. Aneta Nikolova, Environment Affairs Officer, EDD, ESCAP on CPI modelling tool |
| 10:40 – 11:00<br>(20')               | Coffee Break   |
| 11:00 – 12:00<br>(60')               | Nature Based Solutions for Urban Design<br><b>Speaker</b><br>- Dr. Kotchakorn Voraakhom, Land Process Co., Ltd. Chairwoman of Climate Change WG at International Federation of Landscape Architects (online participation)   |
| 12:00 – 13:30<br>(90')               | Lunch  |

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|--------------------------------------|---|
| 13:30 – 14:00<br>(30')               | CPI Exercise in two small groups: Modelling of CPI to support NDC implementation<br><b>WG leaders</b><br><ul style="list-style-type: none"> <li>- Ms. Aneta Nikolova, Environment Affairs Officer, EDD, ESCAP; and</li> <li>- Dr. Poonperm Vardhanabindu, Climate Modeller and Analyst, ESCAP</li> </ul>  |
| 14:00 – 14:20<br>(20')               | Preparation for Field trip  |
| 14:20 – 21:00<br>(400')              | Field Trip and Dinner reception<br><ul style="list-style-type: none"> <li>- 4 site tours in Bangkok old town (Phadung Krung Kasem, Chong Nonsi Canal Park, CU Centenary Park and Thanon Saphan Phut)</li> <li>- Chao Phraya Sky Park and ICON Siam mall visit</li> <li>- Dinner reception at the restaurant ship</li> </ul>   |
| <b>Day 4, 16 February 2023 (Thu)</b> |   |
| <b>Time</b>                          | <b>Module</b>   |
| 09:10 - 09:30<br>(20')               | Registration  |
| 09:30 - 10:20<br>(50')               | IPCC 2019 Refinement<br><i>Moderator</i><br><ul style="list-style-type: none"> <li>- Ms. Chaela Shin, Associate Research and Policy Development Expert, UNOSD</li> </ul> <b>Speaker</b><br><ul style="list-style-type: none"> <li>- Mr. Enoki Takeshi, IGES Fellow/TSU Scientific Advisor, The institute for Global Environmental Strategies (IGES)</li> </ul>  |
| 10:20 - 10:40<br>(20')               | Coffee Break  |
| 10:40 – 11:10<br>(30')               | Panel Discussion<br><i>Moderator</i><br><ul style="list-style-type: none"> <li>- Ms Katinka Weinberger, Environment and Policy Development Section, EDD, UNESCAP (tbc)</li> </ul> <b>Panelists (all participants of the Workshop)</b><br><ul style="list-style-type: none"> <li>- Mr. Chun Kyoo Park, Head of Office, UNOSD and Mr. Sangmin Nam, Director, UNESCAP will be providing comments and interventions during this session.</li> </ul> |
| 11:10– 11:25<br>(15')                | Wrap Up<br><b>Speaker</b><br><ul style="list-style-type: none"> <li>- Ms. Chaela Shin, Associate Research and Policy Development Expert, UNOSD</li> </ul>   |
| 11:25 – 11:40<br>(15')               | Closing remarks<br><b>Speaker</b><br><ul style="list-style-type: none"> <li>- Mr. Chun Kyoo Park, Head of Office, UNOSD</li> <li>- UNESCAP (TBC)</li> <li>- TGO (TBC)</li> </ul>  |