

## COURSE OUTLINE

### Annual International Training Course

#### Course Title:

**Towards Carbon Neutrality and Net Zero Emissions**

#### Duration:

5 Days

#### Background:

At the current situation, economic and social development need to be in cooperate with the preservation of natural resources and the environment because those development activities cause greenhouse gas emissions, leading to climate change problems affecting lives and property, as well as economic impacts in all sectors worldwide.

In 2015, The Paris Agreement is a legally binding international treaty on climate change. It was adopted by 196 Parties at COP 21 in Paris, on 12 December and entered into force on 4 November 2016. Its goal is to limit global warming to well below 2, preferably to 1.5 degrees Celsius, compared to pre-industrial levels. To achieve this long-term temperature goal, countries aim to reach global peaking of greenhouse gas emissions as soon as possible to achieve a climate neutral world by mid-century.

As the climate crisis is a global threat, the world needs to find global solutions, by committing to support developing countries' efforts to mitigate and adapt to climate change. Agreements reached at the COP26 in Glasgow, UK, are a vital chance to gain a global consensus on action to cut emissions and reach net zero. Commitment is needed from global leaders to at least halve global emissions by 2030 and reach net zero by mid-century. And a clear plan for how to deliver on these commitments is needed, along with interim emissions targets.

In 2014, Thailand Greenhouse Gas Management Organization launched the Climate Change International Technical and Training Center or CITC with support from Japan International Cooperation Agency (JICA) to serve as a knowledge hub and training platform on climate change to fulfill the needs of ASEAN stakeholders on climate change implementation. As a result of the successful execution of the CITC, TGO decided to expand our capacity building activities and collaboration by integrating the CITC and other training and outreach programs into a newly established TGO Climate Action Academy (CAA), aims to develop capacity for personnel in climate change management in the country, especially senior executives and leaders from all sectors, to have knowledge and understanding of their role in promoting circular economy, in order to achieve maximum productivity, energy efficiency, minimum waste, and minimum supply chain greenhouse gas emissions, as well as promoting the consumption of products with low carbon emissions, creating a low carbon society as soon as possible that will allow all life in the world to continue to live well and sustainably.

**Organization/Institution:** Thailand Greenhouse Gas Management Organization (TGO)

**Objectives:**

- Enhance understanding of the implications of climate actions and key issues under international climate change legal and policy framework
- Exchange information on the mechanisms and options for Net-zero Transition
- Discuss and Identify specific technical, institutional and needs to support the integration of policy/mechanism to support and encourage private sector engagement in climate actions

## Course Contents:

### 1) Climate Science and Impacts (3 hrs.)

The purpose of this chapter is to enhance the understanding of current major issues of interests related to climate change, impacts of global warming and climate change to the global society and economy, and the need and urgency to address these issues.

- a. Translating science into global climate policies

### 2) International Climate Regime (4 hrs.)

This chapter provides a summary of the objective and key components of the United Nations Framework Convention on Climate Change (UNFCCC) and its implementation through decisions of the Conference of the Parties (COP), as well as the adopted legal instruments under the framework.

- a. Development of international climate regime: From UNFCCC to Paris Agreement

### 3) Towards Carbon Neutrality and Net Zero Emissions (3 hrs.)

The purpose of this chapter is to explain in an ambitious of climate action to respond to the climate crisis. Especially, the concept of Carbon Neutrality and Net Zero Emissions based on the Paris Agreement set out a global framework to avoid the dangerous impacts of climate change by limiting global warming to well below 2°C. To be aligned with this goal, we must reach collective carbon neutrality or/and net zero emission by 2050, which is the aim of the previously mentioned commitments.

- a. Net-zero Transition and Pathways

#### **4) Implications of Climate Measures on International Trade, Industry and Investment**

**(4 hrs.)**

The purpose of this chapter is to examine the major types of policies and measures that can be used to mitigate net concentrations of greenhouse gases (GHGs) in the atmosphere. Alternative policy instruments are described and assessed in terms of specific criteria, on the basis of the most recent literature. Naturally, emphasis is on the instruments mentioned in United Nations Framework Convention on Climate Change (UNFCCC). In addition to economic dimensions, political, economic, legal, and institutional elements are considered insofar as they are relevant to the discussion of policies and measures.

- a. Overview of Climate Measures
- b. Case study: Carbon Border Adjustment Mechanism (CBAM) and other related instruments
- c. Case study: Climate Funds

#### **5) International market - based cooperation (7 hrs.)**

Article 6 Projects for Transformative Climate Action – condition for the identification of Article 6 type mitigation actions to promote a higher level of ambition. Specifically, you will learn about the relationship between NDC and potential mitigation activities under Article 6 and how to ensure cooperative approaches go beyond the NDC commitments of the transferring Party.

- a. Introduction International market - based cooperation
- b. Case study: International market - based cooperation

#### **6) Thailand Carbon Credit case study (7 hrs.)**

This chapter provides case study of formulation and implementation of policies and strategies to effectively address climate change while taking into account the special circumstances and national context of Thailand on country committed to a limit on its GHG emissions.

- a. Thailand Climate Policy and Targets
- b. Driving Ambition for Carbon Neutrality: TGO Service Platform

### **Participants' Criteria:**

Applicants must be full fill the following requirements:

- Be nominated by responsive government
- Education: Bachelor's or higher degree
- At least three years of work experience in climate change or related field
- Language: Proficiency in English (Speaking, Reading and Writing)

### **Attendance and Evaluation:**

Participants who complete the training will receive a certificate based on:

- Real-time class attendance (not less than 80%)
- Interaction participation
- Presentation and report
- Evaluation

**Venue:** Bangkok, Thailand (online training)

### **Expected Results:**

Participants will be able to

- Valorize and capitalize on knowledge on climate science;
- Describe the key provisions, commitments and mechanisms established by the Convention and the Protocol;
- Identify the integration of the climate change dimension into policy and action;
- Analyze principal challenges and opportunities for climate change action;

Create an enabling environment policy/mechanism to support and encourage private sector engagement in climate actions.

**Organization:**

Implementing Agency: Thailand Greenhouse Gas Management Organization (TGO)

Contact Person: Ms. Apaphatch Hunsirtrakun

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**Expenditure / Funding:**

Thailand International Cooperation Agency (TICA)

The Government Complex Ratthaprasasanabhakti (B) Building,

South Zone,8th Floor, 120 Moo 3 Chaengwattana Road, Thungsonghong,

Laksi District, Bangkok 10210

(Tentative) Towards Carbon Neutrality and Net Zero Emissions

Online Annual International Training Course

19 – 23 August, 2024

Date/Period/Topic	Time (Bangkok Time)	Content	Speaker
Day 1			
Climate Science and Impacts	9.00 - 12.00	Translating science into global climate policies	UNFCCC
International climate Regime	13.00 – 17.00	Development of International climate regime: From UNFCCC to Paris Agreement	UNFCCC
Day 2			
Towards Carbon Neutrality and Net Zero Emission	9.00 – 12.00	Net-zero Transition and Pathways	TGO
Implications of Climate Measures on International Trade, Industry and Investment	13.00 – 17.00	Overview of Climate Measures	IGES
		Case study: Carbon Border Adjustment Mechanism (CBAM) and others related instrument	TGO/DTN
		Case study: Climate Funds	DCCE
Day 3			
International market-based cooperation	9.00 – 12.00	Introduction International market-based cooperation	TGO
	13.00 – 17.00	Case study: International market-based cooperation	IGES
Day 4			
Thailand's Carbon Credit case study	09.00 – 17.00	Driving Ambition for Carbon Neutrality: TGO Service Platform	TGO

Date/Period/Topic	Time (Bangkok Time)	Content	Speaker
Day 5			
Workshop/Sharing experiences/ Participants Discussion			

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