



International Conference 2024  
Upfront Engineering Education and Professional Mobility 2024:  
Quality Education and Professional Development Towards Global Engineering Mobility and Sustainable Future  
Thursday 25 July 2024, 10.30 AM – 12.30 PM at Ballroom 2, InterContinental Bangkok

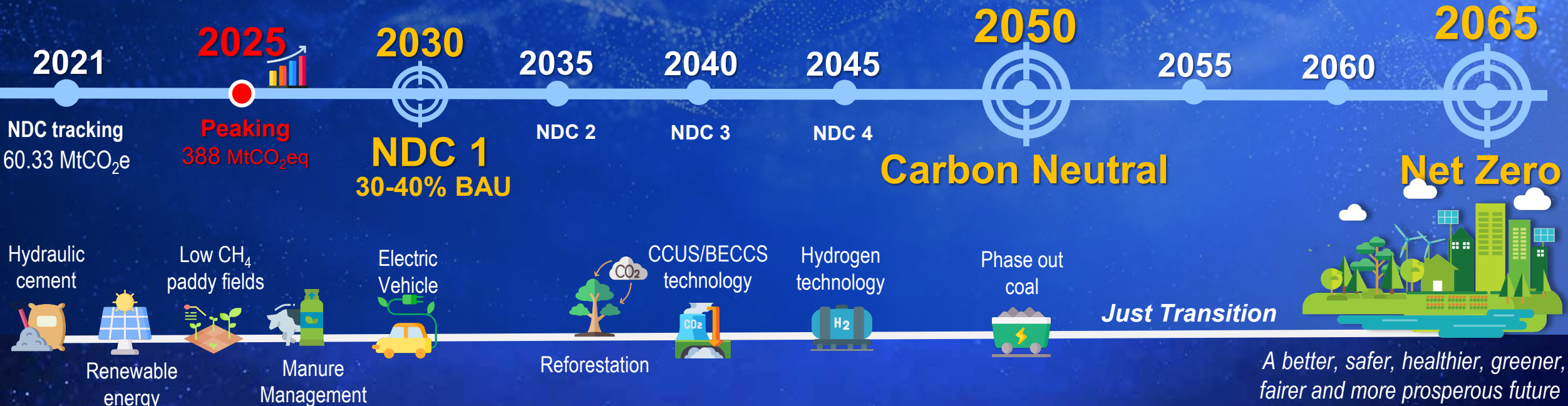
# Thailand's Experiences on Climate Change Mitigation Policy and Implementation

**Mr. Sivach Kaewcharoen**

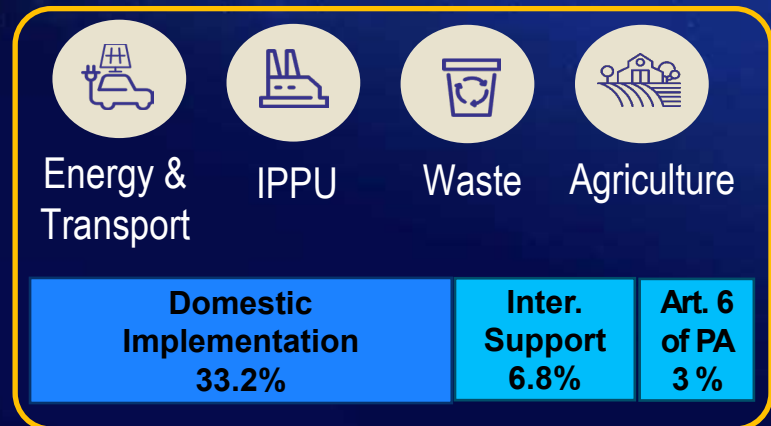
**Director of Climate Change Mitigation Division  
Department of Climate Change and Environment (DCCE)**



# Thailand's Decarbonization Pathway

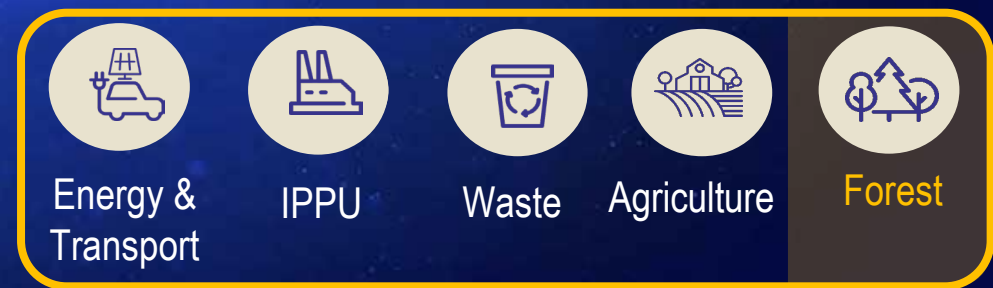


## NDC Action Plan 2021 - 2030



...In the process of submitting to NESDC for consideration...

- Climate Change Act
- Blended Finance
- Market Mechanism
- Data Center
- Technology, R & D
- Public Awareness



Emission 120 MtCO<sub>2</sub>e ↔ Removal 120 MtCO<sub>2</sub>e



# Thailand's Climate Change Mitigation Actions

**NAMA**

**2020**

(Draft) NDC Action Plan on Mitigation 2021 - 2030

**2030**

## Nationally Appropriate Mitigation Actions

GHG emission reduction

**7 - 20%**

against BAU level  
by 2020 in the Energy and  
Transport sectors

## NDC Tracking Progress in 2021

Mitigation outcome 60.33 MtCO<sub>2</sub>eq

- Energy 49.59 MtCO<sub>2</sub>eq
- Transport 0.30 MtCO<sub>2</sub>eq
- IPPU 0.4 MtCO<sub>2</sub>eq
- Waste 6.09 MtCO<sub>2</sub>eq
- Agriculture 3.95 MtCO<sub>2</sub>eq

## NDC 2030 Target

**40% + 3%**

Energy Transport IPPU Waste Agriculture



<b>124.6</b> MtCO <sub>2</sub> eq (22.4%)	<b>45.6</b> MtCO <sub>2</sub> eq (8.2%)	<b>1.4</b> MtCO <sub>2</sub> eq (0.3%)	<b>9.1</b> MtCO <sub>2</sub> eq (2.6%)	<b>4.1</b> MtCO <sub>2</sub> eq (0.7%)
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## Domestic Implementation

**184.8 MtCO<sub>2</sub>eq (33.3%)**

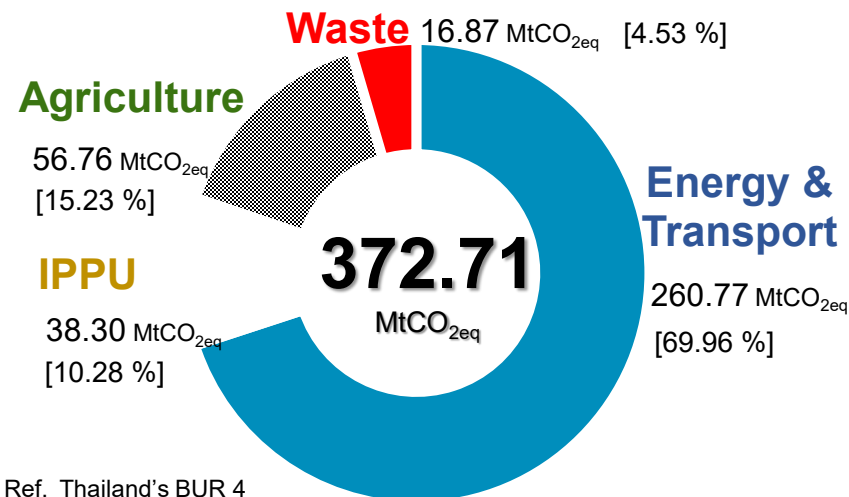
## International Support

**37.5 MtCO<sub>2</sub>eq (6.7%)**

Article 6.2 (3%)

**Total 222 MtCO<sub>2</sub>eq**

## GHG Emission by Sector in 2019

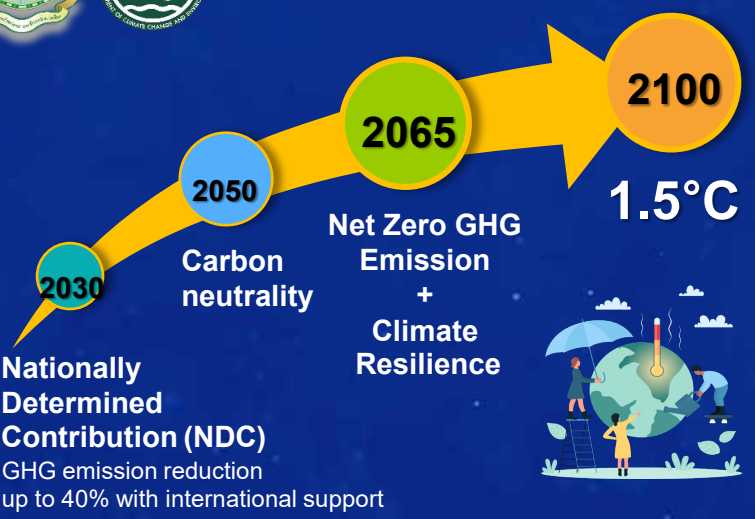


Ref. Thailand's BUR 4





# (Draft) NDC Action Plan on Mitigation 2021 - 2030



**Vision**  
Thailand achieve NDC target 30 -40% by 2030

## Linkages of National Policies & Plans

- 1 National Strategy (B.E. 2561 - 2580)**  
 The 5<sup>th</sup> strategy: Eco-friendly Development and Growth  
 The 3<sup>rd</sup> development guideline: Promoting sustainable climate-friendly based society growth
- |          |                                     |                          |  |
|----------|-------------------------------------|--------------------------|--|
| <b>2</b> | Master Plan under National Strategy | The National Reform Plan | The 13 <sup>th</sup> National Economic and Social Development Plan |
|          | National Security Policy and Plan   |                          |  |
- 3** (Draft) NDC Action Plan on Mitigation 2021 - 2030

<b>Domestic 184.8 MtCO<sub>2</sub>e หรือ 33.3%</b>					<b>Support 35.7 MtCO<sub>2</sub>e 6.7%</b>
<b>Sectors</b>					
	<b>Energy</b> <small>สำนักงานนโยบายและแผนพลังงาน กระทรวงพลังงาน</small>	<b>Transport</b> <small>สทช. สำนักงานนโยบายและแผนการขนส่งและจราจร</small>	<b>IPPU</b> <small>กรมโรงงานอุตสาหกรรม DEPARTMENT OF INDUSTRIAL WORKS</small>	<b>Waste</b> <small>กรมควบคุมมลพิษ POLLUTION CONTROL DEPARTMENT</small>	<b>Agriculture</b> <small>สำนักงานเศรษฐกิจการเกษตร Office of Agricultural Economics</small>
	<b>124.6 MtCO<sub>2</sub>e (22.5%)</b>	<b>45.6 MtCO<sub>2</sub>e (8.2%)</b>	<b>1.4 MtCO<sub>2</sub>e (0.3%)</b>	<b>9.1 MtCO<sub>2</sub>e (1.6%)</b>	<b>4.1 MtCO<sub>2</sub>e (0.7%)</b>
	<b>Development guideline 1</b>	<b>Development guideline 2</b>	<b>Development guideline 3</b>	<b>Development guideline 4</b>	<b>Development guideline 5</b>
	Sectoral GHG emission reduction implementing and monitoring	Developing/ improving of tools and mechanisms for supporting the implementation	Capacity building and stakeholders engagement	Preparing for long-term implementation	Promoting of the international collaboration



# Driving Mechanisms in All Areas



## Policy

- Integration of Net Zero target
- Implementation of BCG model
- Drafting the NDC Action Plan
- Institutional Arrangement



## Finance/ Investment

- Source of Fund (GCF, GEF, EF)
- Incentive (BOI)
- Thailand taxonomy (Bank of Thailand)
- Green procurement



## Technology/ Innovation

- Carbon removal technology (CCS, CCUS, DAC, etc.)
- Green hydrogen
- Innovation



## Organization/ Regulations

- Drafting Climate Change Act
- Accelerating the implementation through DCCE mandates and activities



## Carbon Market Mechanism

- RE&CC exchange platform (FTIX) by TGO and FTI
- Afforestation (Carbon sink) + communities



## Collaboration

*...align with the national target...*

- Domestic partnership
- Private sector Network
- Global partnership



# THANK YOU



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