



Thailand's NC4 & BUR4

WGIA21
Putrajaya, Malaysia
2024, July 10th

Presentation Outline



- ❖ National Context
- ❖ GHG inventory
- ❖ Mitigation actions and effect
- ❖ Adaptation
- ❖ Support needed and received
- ❖ Transition to ETF



National Context

- Total land area of 513,115 km²
- Forest area average 31%
- Agricultural land 46%
- 66 million of population
- Climate: increasing average 0.09 °C/year
- Biodiversity +species of plants, animals and microorganisms



National Context

DEPARTMENT OF CLIMATE CHANGE AND ENVIRONMENT (DCCE)



17 August 2023

Royal Decree on 17 August, 2023

- Changed the name of Department of Environmental Quality Control (DEQP) to Department of Climate Change and Environment (DCCE)

Dr. Phirun Saiyasitpanich
Director General of DCCE



Staffs and mandates from
CCME (under ONEP) to CCE

Ministerial Regulations 18 August 2023

- Climate change mandates were transferred from ONEP to DCCE

18 August 2023

Institutional Arrangements for Climate Change in Thailand

National Committee on Climate Change Policy (NCCC)

Cabinet

Subcommittee

CC Policy & Planning Integration (MoNRE/DCCE)

CC Knowledge & Database (MoNRE/DCCE)

CC Negotiation & International Cooperation (MoNRE/DCCE)

Public Relations & Actions for Climate Empowerment (MoNRE/DCCE)

CC Law (MoNRE/DCCE)

Promoting and Managing Carbon Credits from the National Greenhouse Gas Absorption Measures (MoNRE/DCCE)

Enhancing GHG Mitigation Implementation from Applying CCUS Technology (MOEN/DMF)

Policies and measurements

Adaptation
Mitigation
Enabling Environment

Draft Action for Climate Empowerment Plan (ACE)

Draft Act on Climate Change B.E.

Draft guidelines and mechanisms for managing carbon credits.

Carbon Sinks

Natural Forest
Economic Forest
Green Space

CCUS

Energy
Cements
Etc.

Tools and mechanisms support

Carbon Credit Platform (TGO/DCCE)

International (CDM, JCM, JTMOs)
Domestic (T-VER)

Cap & Trade
Incentive
Carbon Tax
Carbon Label

Research and Development on Technology (R&D) (MHESI)

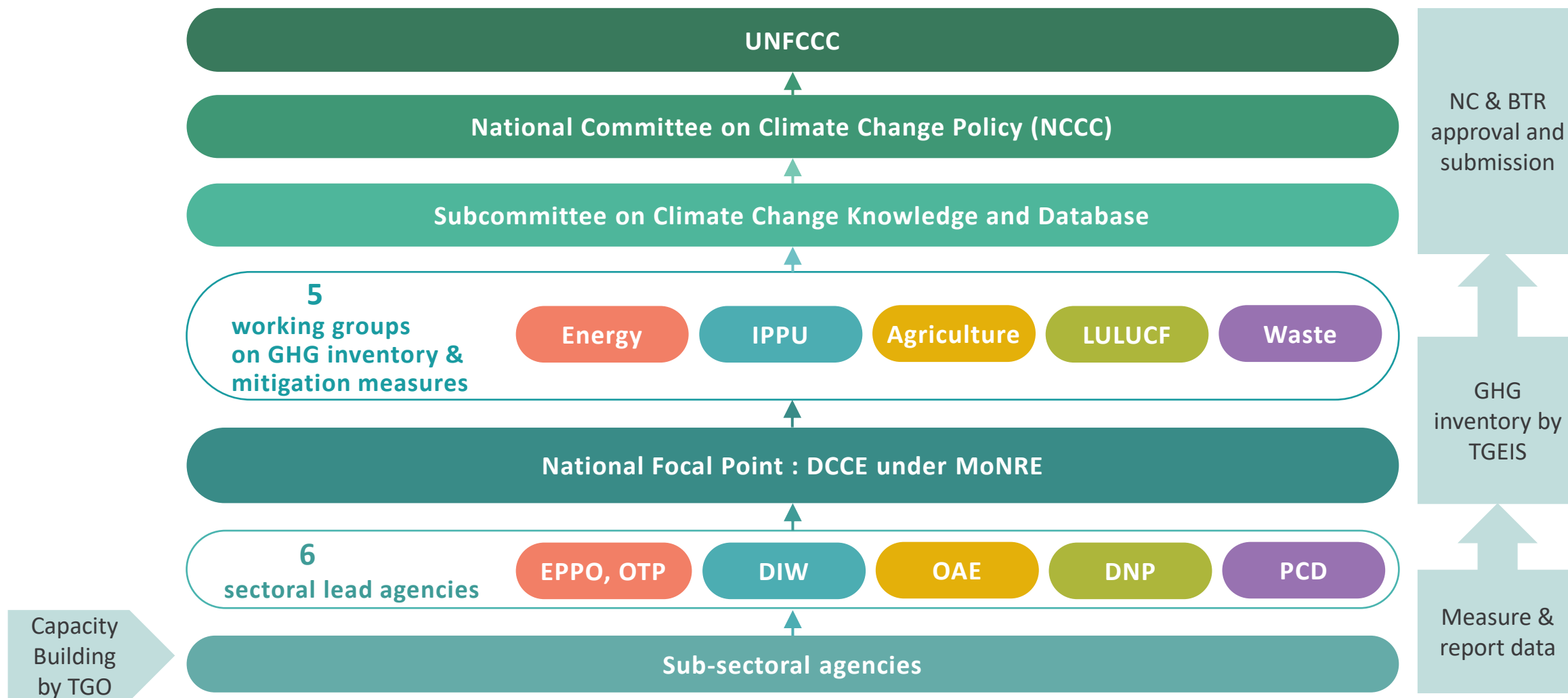
Ministry Announcements/ Regulations/ Criteria (DCCE./TGO.)

M&E / MRV System
TGEIS
Risk Map Database
Negotiation Database
Operational Support Database System



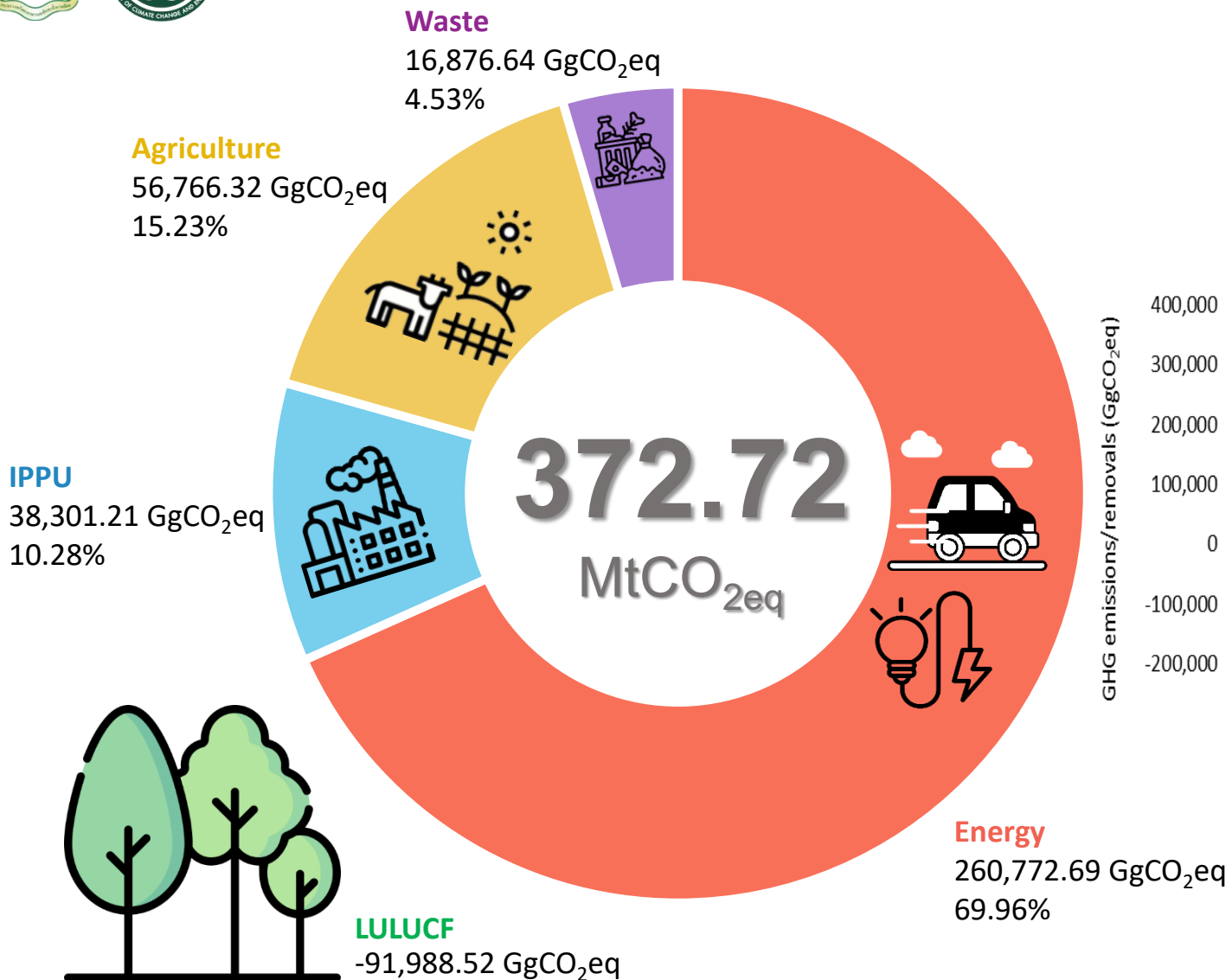
National Context

Institutional arrangement for GHG inventory



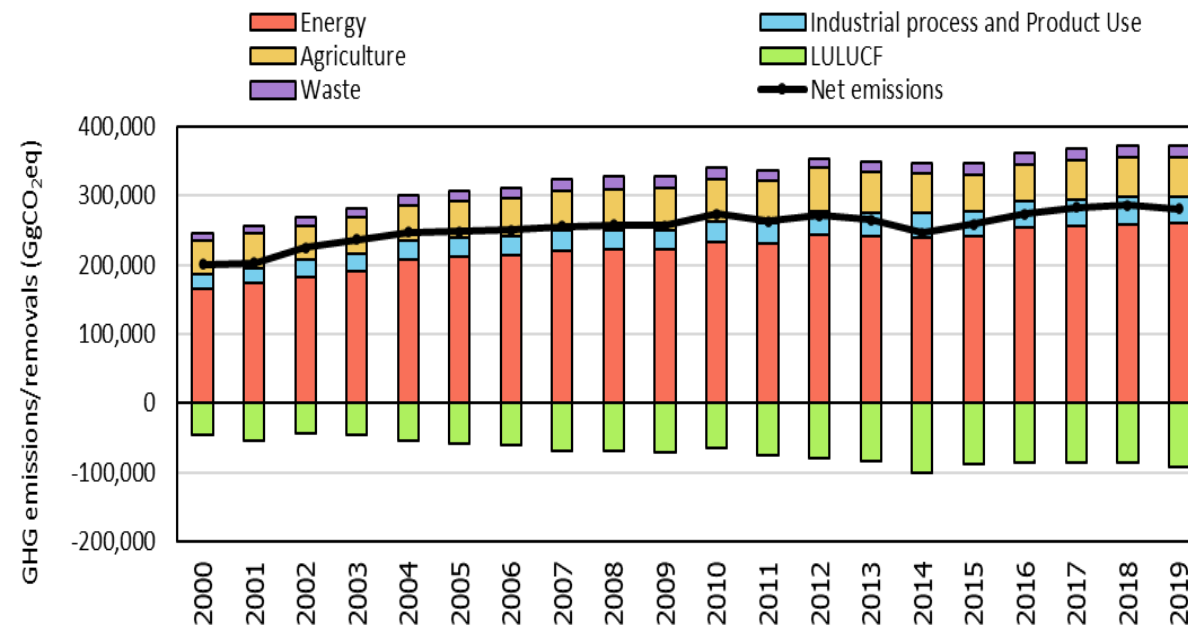


2019 GHG emissions and trends by sector



IPCC 2006

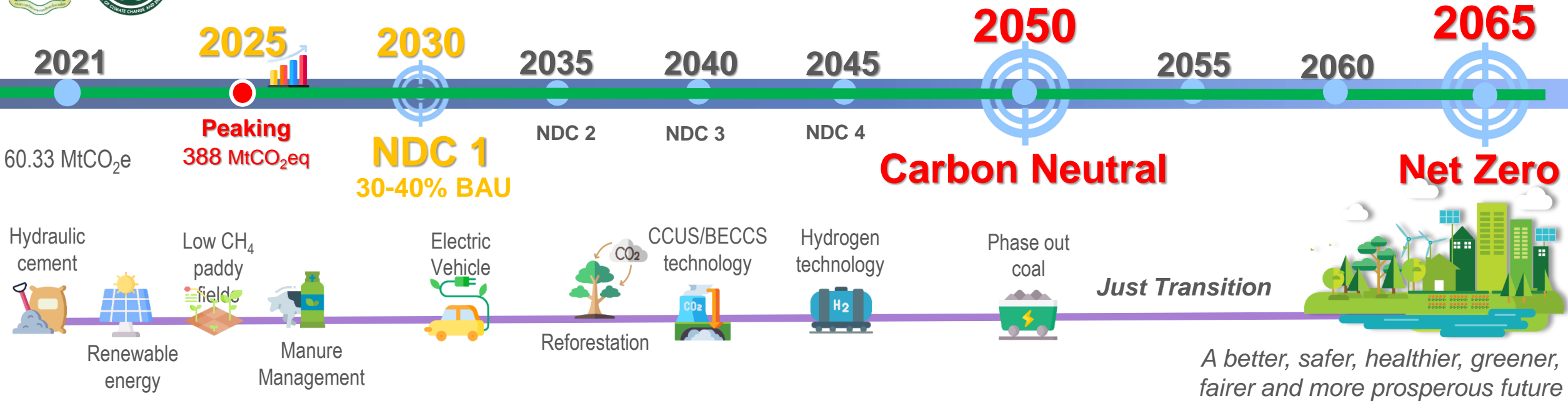
GWP AR4



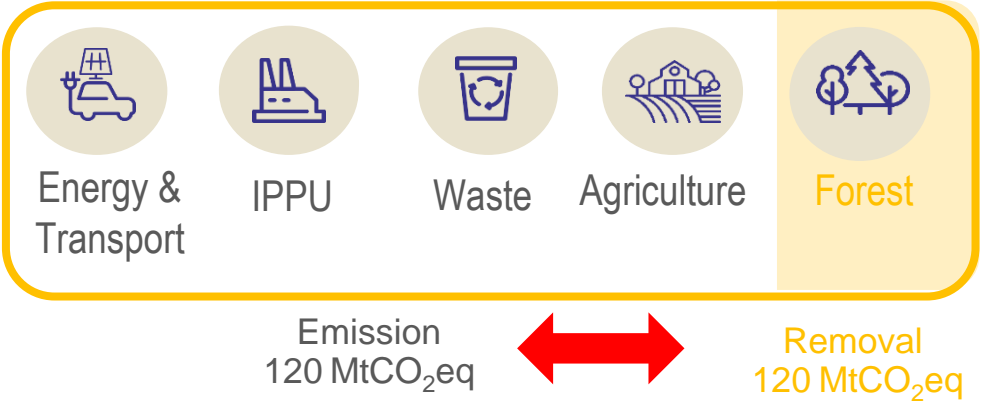
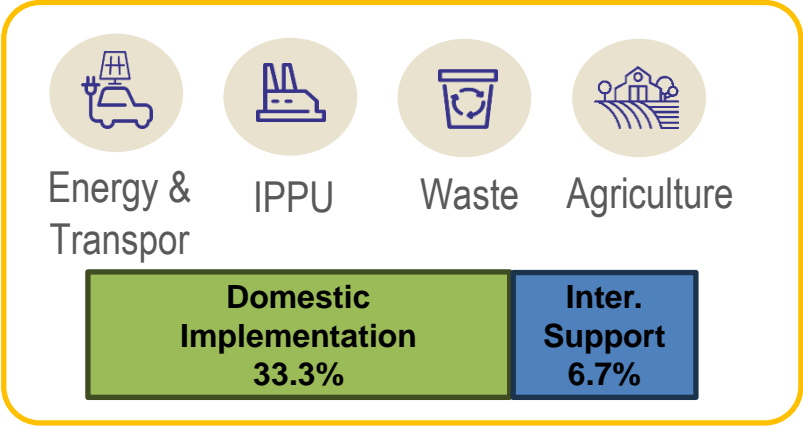
GHG Inventory



Thailand's Decarbonization Pathway



NDC Action Plan 2021 - 2030



Mitigation Actions and Effect



Thailand's NDC Implementation

2021

Thailand NDC Action Plan on Mitigation 2021 - 2030

40%
2030



Domestic 33.3%

International Support 6.7%



**Energy
(22.5%)**

- Conservation/Improvement of the efficiency of electricity generation
- Development of Renewable Energy



**Transport
(8.2%)**

- Promotion of EV use
- Improvement of engine efficiency
- Improvement of urban transportation system
- Improvement of inter-city transportation and logistics system



**Waste
(1.6%)**

- Municipal/Industrial wastewater management
- Solid waste management



**IPPU
(0.3%)**

- Clinker substitution
- Refrigerant replacement



**Agriculture
(0.7%)**

- Livestock waste management
- Reduction of chemical fertilizer use
- AWD rice cultivation

33.3% Domestic (Unconditional Target)



Adaptation

National Climate Change Master Plan 2015 - 2050

- 20-Year National Strategy
- National Reform Plan
- Thailand 4.0
- National Economic and Social Development Plan (NESDP)

Global Mechanisms
UNFCCC / PA / SDGs

National Adaptation Plan (NAP)

Policy and Plan for Enhancement and Conservation of National Environmental Quality (2017 – 2036)

Sectoral Plan

- Climate Change Adaptation Plan for Agriculture (2023 – 2027)
- Health National Adaptation Plan (HNAP), Phase 1 (2021 – 2030)
- (Draft) 20-Year Water Resources Management Master Plan (1st Updated, 2023 – 2037)
- National Disaster Risk Management Plan (2021 – 2027)

Water
Resources
Management

Agriculture
and
Food Security

Tourism

Public Health

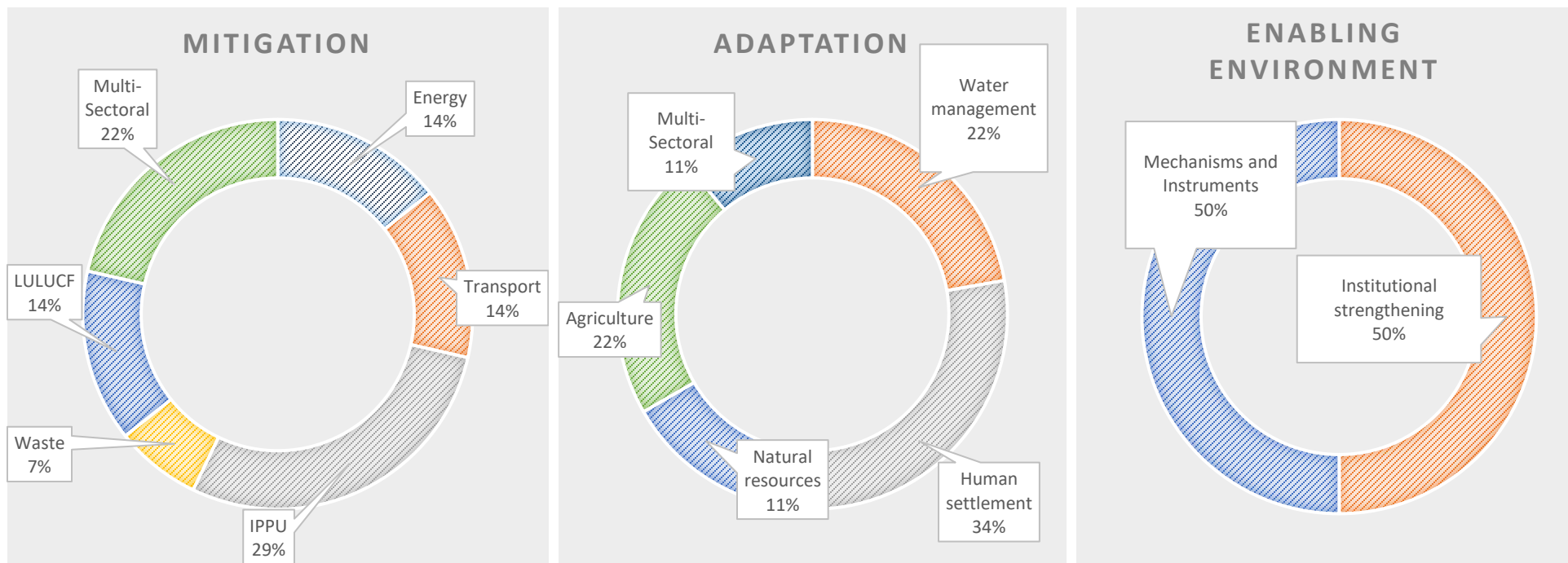
Natural
Resources
Management

Human
Settlement
and Security

Adaptation actions across different area – based levels : Subregions / Provinces / Local Authorities / Communities / Individuals



Support received

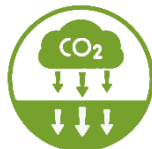


Thailand has received international support from various partners 34 projects; mitigation 18 projects, adaptation 10 projects and enabling environment 6 projects.

Support Needed and Received



Support needed



Mitigation

- Technical support and capacity building to support mitigation actions with advanced technologies ;CCUS, hydrogen tech
- International financial support mechanisms for purchasing intellectual property rights of clean energy technologies



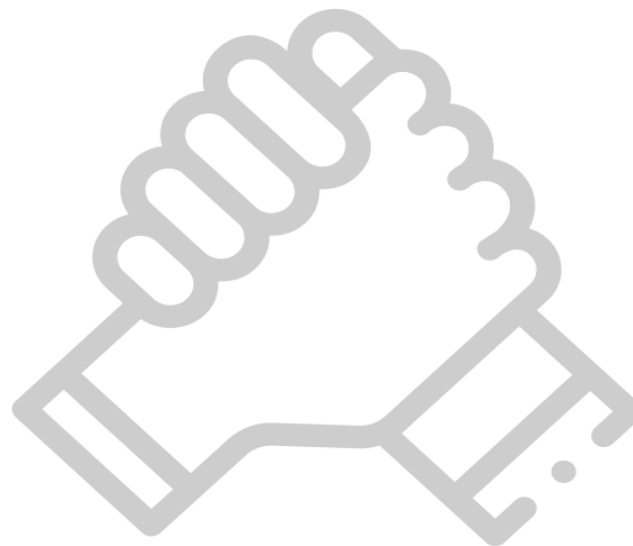
Adaptation

- Strengthening capacity Building program
- National M&E system
- Innovative financing measures; fiscal and monetary instruments, private innovative financing scheme
- National data system for climate Change adaptation across spatial scales and sector



Enabling environment

- Raising public awareness on climate change
- Supporting to Net zero transition



Support Needed and Received



Ongoing work and preparations to facilitate the transition to the ETF

- ❖ **Updating TGEIS** to support ETF reporting requirements
- ❖ **DCCE 2024 project** that aims to capacity building new DCCE staffs, develop domestic MRV system and reporting forms for tracking NDC progress, following BTR requirements
- ❖ **Preparing NDC 3.0**

Transition to ETF



Thank
You!



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