



Partnership on Transparency
in the Paris Agreement

Supported by:
Federal Ministry
for the Environment, Climate Action,
Nature Conservation and Nuclear Safety
based on a decision of
the German Bundestag



Ministry of Climate, Energy and Environment
Greenhouse Gas Inventory
and Research Center

Experience and lessons learnt from BTR1 to consider in preparing BTR2

Thailand's Journey to BTR1 Submission

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18th February 2026 Venue: Mövenpick BDMS Wellness Resort Bangkok



Ministry of Sustainability
and the Environment
SINGAPORE

NCCS
NATIONAL CLIMATE CHANGE SECRETARIAT
SINGAPORE

STRATEGY GROUP
PRIME MINISTER'S
OFFICE



United Nations
Framework Convention on
Climate Change

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Roadmap to the Enhanced Transparency Framework (ETF): From Preparation to BTR Submission

THE PREPARATION PHASE



Studying Global Decisions & Guidelines

Deep dive into Decisions 1/CP.24 and 19/CMA.1 to understand legal and technical ETF requirements.



Strategy & Knowledge Transfer

Identify reporting gaps to plan effective strategies for enhancing institutional knowledge.



Capacity Building & Workshops

Conduct kickoff workshops for MPGs to prepare stakeholders for BTR development.

INTERMEDIATE STEPS & INFRASTRUCTURE



Learning from BUR4 Recommendations

Review technical expert recommendations from 4IR Biennial Update Report (BUR4) to prioritize data improvements.



Establishing the BTR Working Group

Form a dedicated team to manage BTR components and address areas for improvement.



REPORTING TIMELINE



1ST BTR SUBMISSION: DECEMBER 31, 2024

First major milestone under the ETF, marking transition to the new biennial reporting cycle.



Post-Submission Review & Optimization

Review technical expert recommendations after submission and prioritize further data improvements.



2ND BTR SUBMISSION: DECEMBER 31, 2026

Second reporting cycle reflecting matured data systems and refined transparency processes.

TECHNICAL FOCUS AREAS FOR SUCCESS



Enhanced Inventory & QA/QC

Implement rigorous Quality Assurance and Quality Control (QA/QC) processes and reporting NF3 emissions.



Advanced Methodology (Tier 2)

Move toward Tier 2 approach for inventory results, including historical time series data from 1990-2000.



NBC Tracking & Financial Reporting

Establish robust systems to track progress on Nationally Determined Contributions (NDCs) and financial support.



GHG Projections & Removals

Improve accuracy of GHG emission projections and the tracking of carbon removals.



Institutional Flexibility

Build capacity to understand and apply Revisibility provisions within the MPGs to suit national circumstances.



Institutional arrangement for preparation of the Biennial Transparency Report (BTR)

National Level

UNFCCC

National Committee on Climate Change Policy (NCCC)

Approve GHG emission reduction results as Included in NC and BTR

Subcommittee on Climate Change Knowledge and Database

- Verify GHG estimation methodology and amount of GHG emission reduction.
- Providing comments on the country report under the agreement of UNFCCC such as BTR and NC.
- Supporting the development of the GHG inventory and Mitigation

The working group prepares the Biennial Transparency Report (BTR) and the National Report (NC) for submission to the UNFCCC

1. Review and verify data accuracy for BTR and NC preparation, covering
 - National Circumstances
 - GHG Inventory
 - Mitigation Progress
 - Climate Adaptation
 - Financial,
 - Technological, and
 - Capacity-building Support (Needed & Received)
2. Review and provide expert recommendations on the BTR and NC.
3. Analyze report completeness based on the **MPGs** to identify and address capacity-building needs for future submissions.

Approved

Comment/edit

Draft Report

The Meeting of “Public Hearing on Biennial Transparency Report (BTR)”

- To conduct a stakeholder consultation for the Biennial Transparency Report (BTR) to incorporate perspectives from various departments



Improve Activity Data (AD)



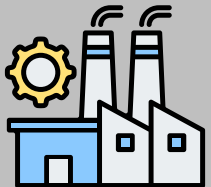
LULUCF

- Improving assessment methods of quality activity data.
 - Approach 2 Survey of land use and land-use change
 - Approach 3 Geographically Explicit land use data from remote sensing technology
- Improving methods for collecting and synthesizing data on wildfire areas.
- Improving assessment methods to enhance the evaluation of biomass enrichment in natural forest areas.



Agricultures

- Improving Activity data from agricultural sub-activities such as animal manure management, urea fertilization, rice cultivation, and biomass burning in cultivated areas.



IPPU

- Enhancing the collection of data on activities in the petrochemical (ethylene) industry.

Updated emission factors

- Improving emission factors in natural forest areas, forest garden and Cash Crops.
- Improving emission factors from agricultural sub-activities such as animal manure management, urea fertilization, rice cultivation, and biomass burning in cultivated areas.
- Improving emission factor (Tier2) of Petrochemical industry (ethylene) in IPPU sector.

Thailand's Roadmap to Climate Transparency: BTR2 Improvement Plan



IMMEDIATE IMPROVEMENTS

(Implemented in BTR2)



ENERGY & TRANSPORT: Refined Notation & Tier 1 Assessment

- Updated use of Notation Keys (NE, IE) across all categories.
- Implemented Tier 1 GHG assessments for the "1B2 Oil and Natural Gas" category.



IPPU: Data Verification and Recalculations

- Clarified SF6 gas fluctuations, enhanced QA/QC for activity data.
- Recalculated "2A2 Lime Production" for the pre-2011 period using IPCC-recommended back-casting.



AGRICULTURE: Enhanced Methodological Descriptions

- Improved detail regarding assumptions, activity data, and emission factors to provide greater transparency in agricultural reporting.



WASTE: CRT Alignment & Parameter Adjustments

- Aligned TGEIS reporting structure with CRT, recalculated "501 Domestic Wastewater".
- Adjusted F-value and Delay time parameters for solid waste disposal.



MITIGATION: Frameworks & Socioeconomic Impacts

- Reported on institutional/legal frameworks, adopted ARS GWP values.
- Detailed "With measure" scenarios, and assessed the socioeconomic effects of mitigation measures.



DEFERRED IMPROVEMENTS

(Planned for BTR3/BTR4 & Flexibility)



BTR3: Tier 2 Energy & Transport Upgrades

- Tier 2 assessments for Electricity Generation (1A1a) and Petroleum Refining (1A1b) are deferred to BTR3 pending current carbon content studies.



BTR3: Advanced Agriculture & IPPU Metrics

- Reporting for Soil Organic Carbon and Tier 2 assessments for key agricultural categories and Ethylene (2B8b) are slated for BTR3.



BTR4: Long-term ODS Data Collection

- Improved activity data collection for Ozone Depleting Substance (ODS) substitutes (Category 2F) is scheduled for BTR4 due to current legal/tracking gaps.



WASTE: 50-Year Historical Data

- The collection of 50-year historical waste management data for land disposal remains a long-term goal currently utilizing flexibility.



SUPPORT NEEDED: Sensitivity & Cost Analysis

- Sensitivity analysis for future projections and reporting on specific mitigation costs are identified as areas requiring further external support.



Capacity building for Enhance Transparency Framework.

Workshop on "Developing Data Reporting Guidelines for National Reports (NC) and Biennial Transparency Reports (BTR) based on Modalities, Procedures and Guidelines (MPGs)"

The objective

- To **clarify key definitions** and requirements under the Paris Agreement's Transparency Framework.
- To provide guidance on the **BTR format** and data preparation for the **5th National Report** and **2nd BTR**.
- To **ensure accuracy and completeness** in national climate reporting to the **UNFCCC**.

Target group

- DCCE Officer/Expert for Inventor, Mitigation and adaptation
- Focal point sectoral both 5 sectors (Energy, Transport, IPPU, Waste, and Agriculture).

Support



Supported by:
Federal Ministry
for Economic Affairs
and Climate Action



giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH



empower
empowering people to drive change and innovation





Capacity building for Enhance Transparency Framework.

The objective

- To develop the potential of its staff, the DCCE provides comprehensive training on the national greenhouse gas inventory
- To assess personnel understanding, communication and knowledge transfer are evaluated during workshops.

Comprehensive

- 5 Sectors as such as Energy IPPU Waste Agricultures and LULUCF
- 5 Experts from 5 sectors

Target group

- Staff of the DCCE

Support

Training for the trainer : Inventory



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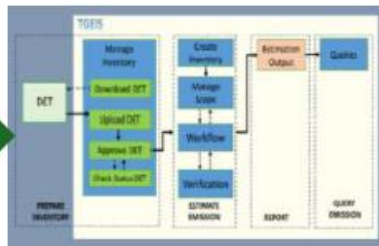
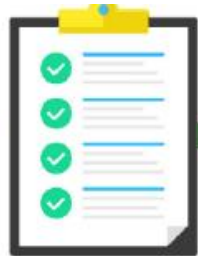
Developed Tool for Track **Inventory** and Mitigation

The DCCE, Development of a Centralized National Greenhouse Gas Database Platform for Thailand

A tool for **streamlined** and **efficient** greenhouse gas inventory data collection and reporting.



Relevant sectoral agencies report activity data (AD).



TGEIS

GHG emissions report



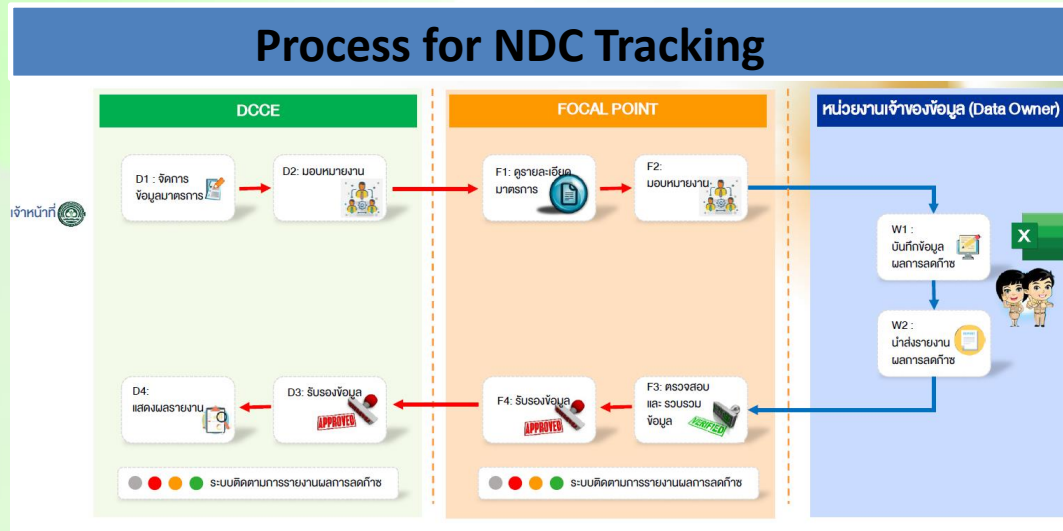
<https://ghgplatform.dcce.go.th/>

Developed Tool for Track Inventory and Mitigation

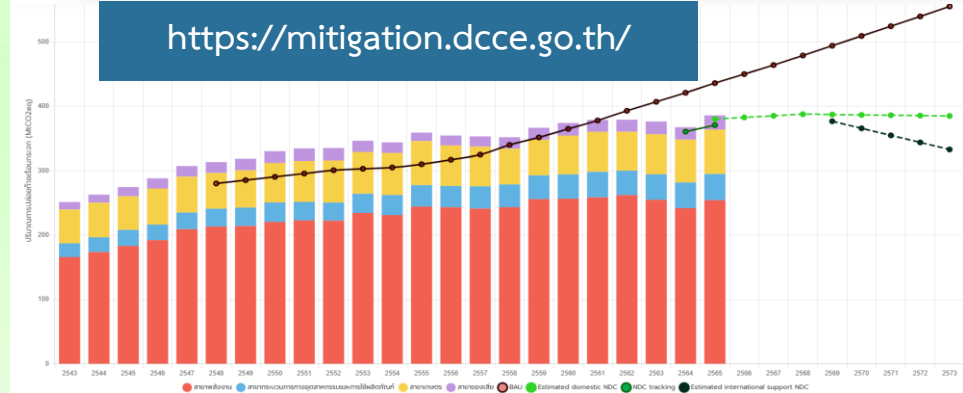
DCCE has developed the NDC Tracking System to monitor and evaluate the progress of Thailand's greenhouse gas emission reductions



- Providing financial support for the development of the Greenhouse Gas Mitigation Monitoring and Evaluation System (NDC Tracking System).



<https://mitigation.dcce.go.th/>

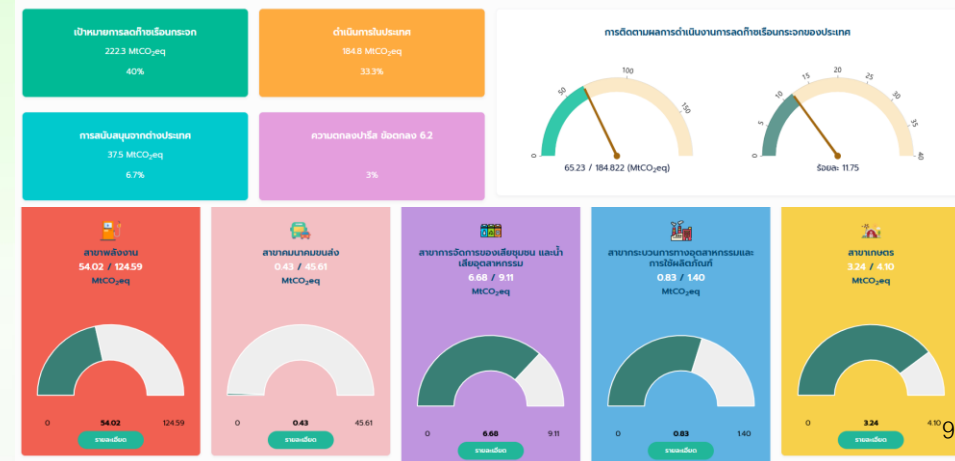


Monitoring and Evaluation (M&E) Tool for the NDC Action Plan (2021 – 2030).



Benefits of the NDC Tracking system

- Serves as the **national database** for tracking greenhouse gas **emission reduction results**.
- **Data Integration:** "Provides a **centralized platform** for integrating sectoral activity data into a unified system."
- Acts as a **key database** for **policy-making** to drive Thailand toward achieving its **emission reduction targets**.





กรมการเปลี่ยนแปลงสภาพภูมิอากาศและสิ่งแวดล้อม DEPARTMENT OF CLIMATE CHANGE AND ENVIRONMENT



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“Thank You”

“ Thailand grows sustainably with a low-carbon economy and is immune to climate change through the participation of its citizens ”