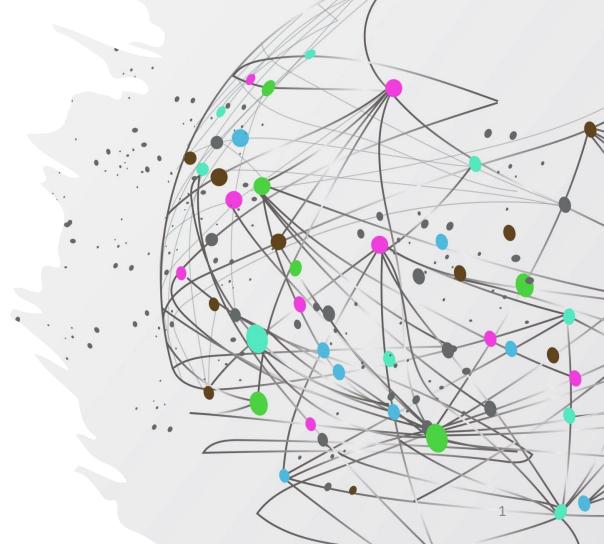
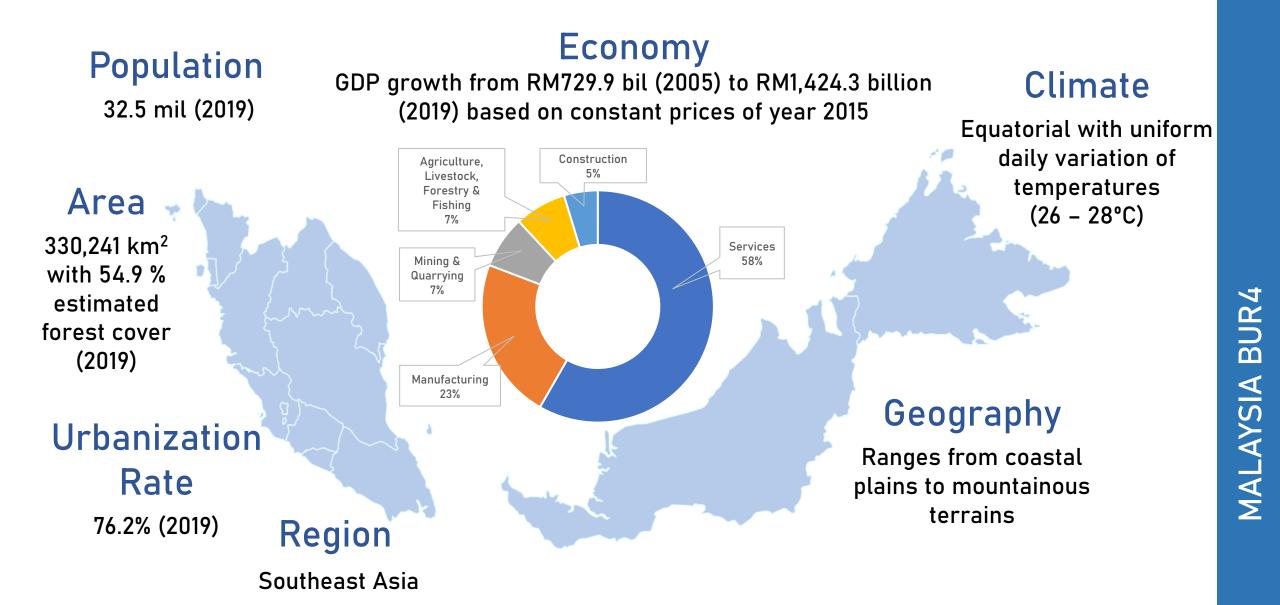


MINISTRY OF NATURAL RESOURCES & ENVIRONMENTAL SUSTAINABILITY (NRES)

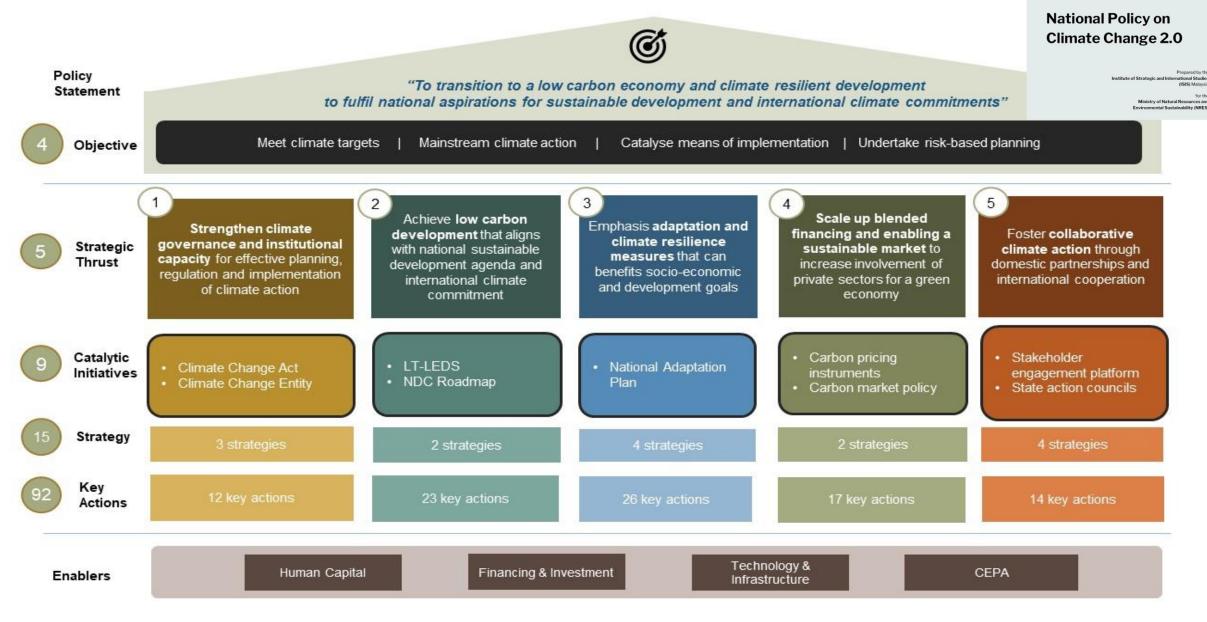
MALAYSIA'S CLIMATE CHANGE POLICIES & THE 4TH BIENNIAL UPDATE REPORT TO UNFCCC



Malaysia: National Circumstances



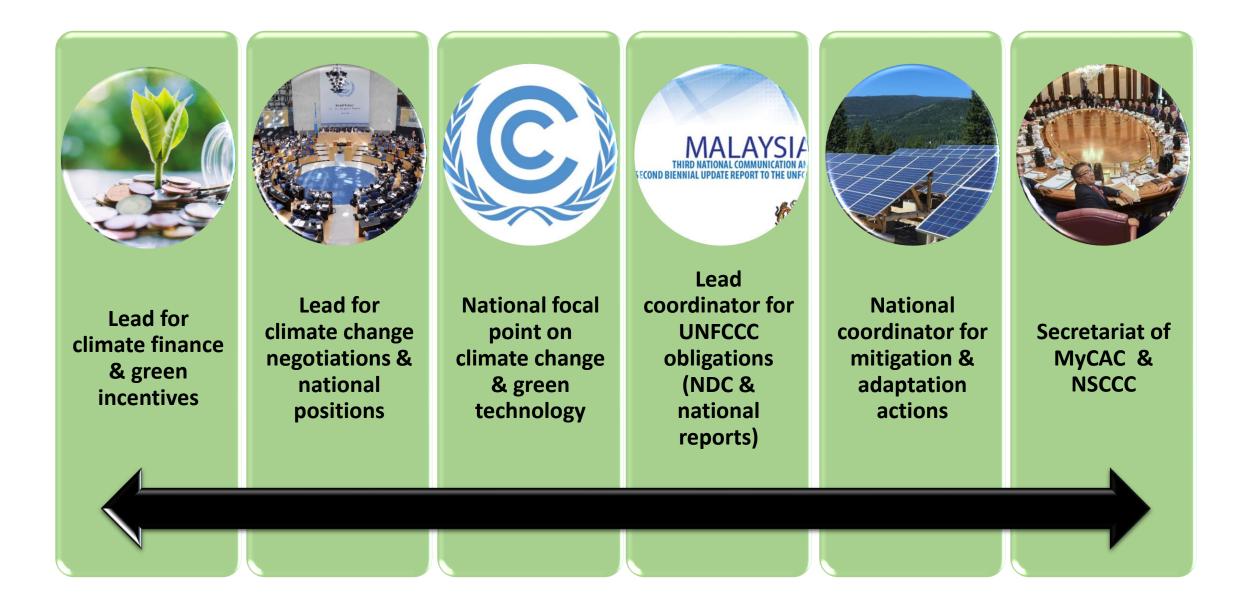
National Policy on Climate Change 2.0



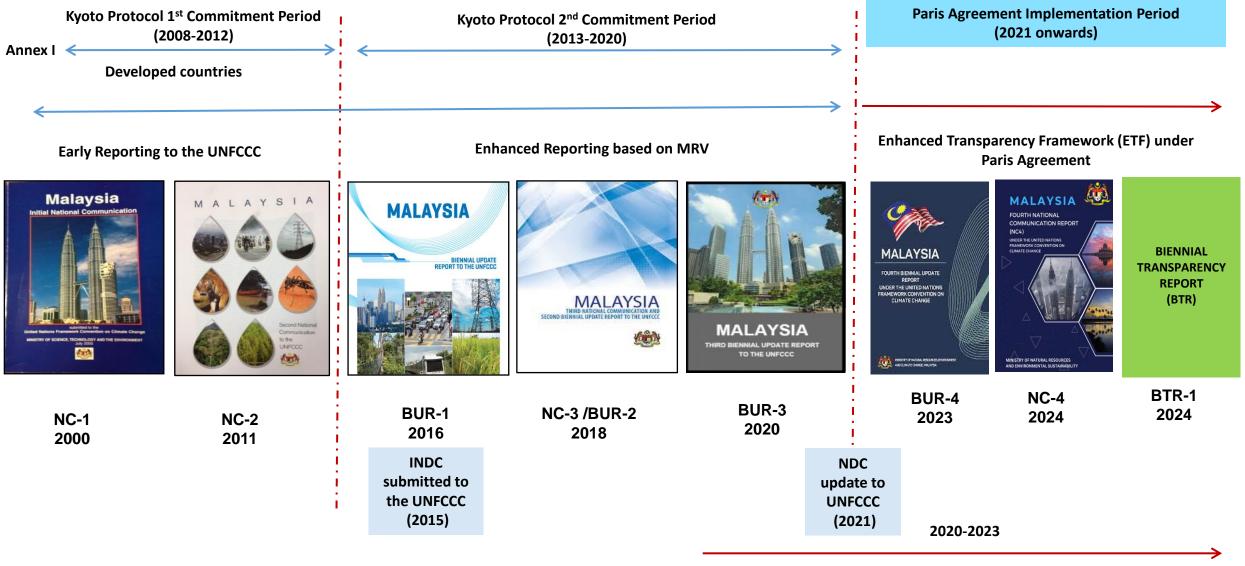
Climate Change Governance in Malaysia

Malaysia Climate Change Action Council (MTPIN) Meetings: at least 1 times a year **Chaired by YAB Prime Minister** Focus: sets policy direction for climate change issues Members: Ministers (federal), Chief Ministers (states) (mitigation and adaptation) and the green growth National Decarbonization Committee (under MTPIN) Established during MTPIN 1/2024 (June 2024) Chaired by Minister of NRES Members: Federal Ministries, States Government Focus: Decarbonization policies and strategies for key sectors National Steering Committee on Climate Change (NSCCC) Meetings: at least 1 times a year **Chaired by Secretary General of NRES** Focus: develop climate change policies and action plans and Members: Federal Ministries, NGOs coordinating national obligations under UNFCCC

Climate Change Governance: Role of NRES



Malaysia's Reporting Obligation Under UNFCCC

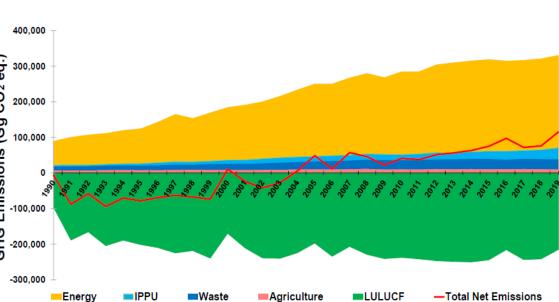


Source: Malaysia's NC and BUR reports to the UNFCCC, 2000 - 2024

Timeline for Malaysia to enhance its capacity to fulfill the reporting obligation under the Paris Agreement (in particular BTR) 6

Malaysia: GHG Inventory

	2005 (Gg CO ₂ eq)	2019 (Gg CO ₂ eq)	% Increase	
Energy	202,676.41	259,326.11	28%	400,000
IPPU	15,101.6	32,853.80	118%	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AFOLU- Agriculture	10,265.04	9,921.71	-3%	U00,000 100,000 -100,000 -100,000 -100,000
AFOLU- LULUCF	-197,076.76	-214,714.54	9%	EIGE -100,000
Waste	22,000.75	28,256.59	28%	-300,000
Total (excluding LULUCF)	250,043.80	330,358.21	32%	 Energy IPP <u>Mai</u> Increased
Total (including LULUCF)	52,967.03	115,643.68	118%	ReportingCompleter



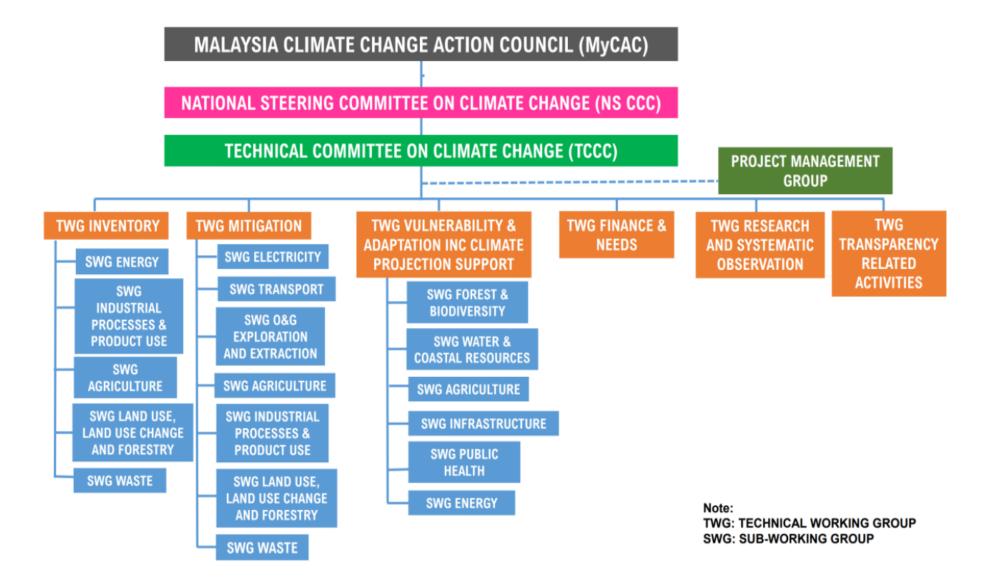
ain drivers of current emissions

metal industry plant

Improvement:

- period: X-3
- ness of categories of emissions

Malaysia: Institutional Arrangements for Reporting



Malaysia: Domestic MRV

- Reporting
- Compilation and finalization of information
- Review of drafts by TWG

preparationAppointments

Planning,

- Coordination
- meetings
- Collecting and validation of data

Validation & Verification

- Validation of Report through national consultation
- Verification of sectoral methods and results

Documentation and Archiving

- Systematic documentation and archiving data and information
- Transparency and sustainability of process

Approval and submission

 Comments by ministries and Cabinet approval

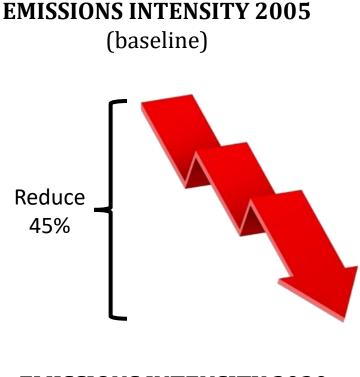
Malaysia: Mitigation Actions and Effects

- NDC: Greenhouse gas intensity (GHG emissions per GDP)
- <u>Mitigation actions</u> are primarily in the energy and LULUCF sectors
 - Increased share of Renewable Energy in the energy mix
 - Improved energy efficiency
 - Enhancing conservation efforts and implementation of Sustainable forest management
 - Increased recycling rates
- <u>Improvement</u>: Addition of mitigation actions from the IPPU and Agriculture sector
- CDM Projects:

No of Projects
(mil tonnes C02 eq)Total CER issuesEstimated Investments
(mil USD)14955,214,626.9113,777,247.00453.26

TOTAL EMISSIONS REDUCTIONS ACHIEVED WITH LULUCF: 48,040.54 Gg C02 eq.)

Malaysia's Nationally Determined Contributions (NDC)



EMISSIONS INTENSITY 2030 (TARGET) **TARGET:** To reduce economy-wide carbon intensity (against GDP) of **45% in 2030** compared to **2005** level.

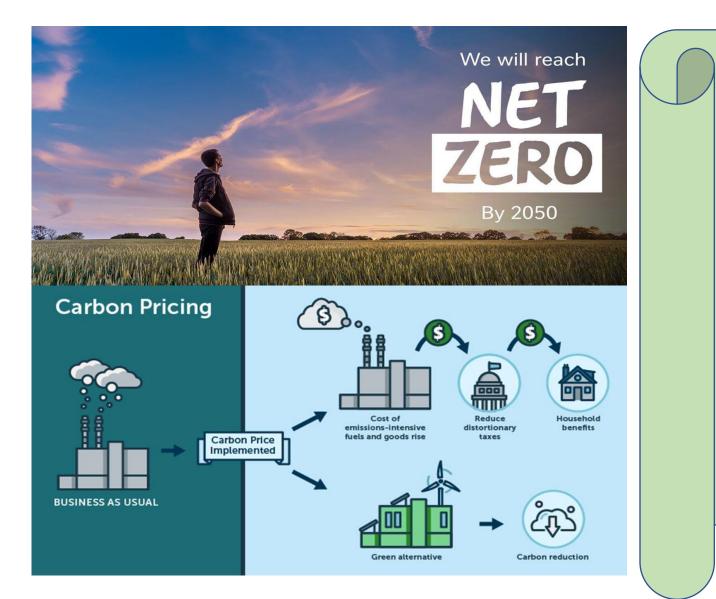
The updated NDC (2021) is **more ambitious** from the earlier submission:

- a) The 45% of carbon intensity reduction is **unconditional**;
- b) This target is an increase of 10% from the earlier submission; and
- c) The **GHG coverage** is **expanded** from three (3) to seven (7): Carbon dioxide (CO_2), Methane (CH_4), Nitrous oxide (N_2O), Hydrofluorocarbons (HFCs), Perfluorocarbon (PFCs), Sulphur hexafluoride (SF_6) and Nitrogen trifluoride (NF_3).

Currently NRES is finalizing **NDC Roadmap and Action Plan** to guide the implementation of Malaysia NDC (expected end 2024)

NRES implementing NDC revision process to set a new target with end year of 2035

Malaysia's Long-Term Development Aspiration



In 2021 Malaysia announced its aspiration to achieve net-zero GHG emissions at 2050 the earliest

Role of private sector transformation (ESG approach) and carbon pricing to support decarbonization of economy

Development of Malaysia's LT-LEDS – to obtain Cabinet approval

Latest development – MyCAC 1/2024 agreed with Malaysia's aspiration to achieve net-zero GHG emissions in 2050

Long-Term Planning and Strategy for Decarbonization



NDC Roadmap and Action Plan (NDC RAP)

- Key document to guide Malaysia's NDC implementation until 2030
- Detailed implementation plan (mitigation actions/ potential mitigation) for key sectors
- Sectoral contribution towards NDC target 2030
- Scenario development and modelling pathways and scenarios toward decarbonization by sectors and gases



Long-Term Low Emissions and Development Strategies (LT-LEDS)

- Key document to highlight long-term strategies to achieve net-zero GHG emissions aspiration (beyond 2030 and until 2050)
- Scenario development and modelling pathways and scenarios toward decarbonization by sectors
- Future strategies to peak and reduce GHG emissions to meet netzero GHG 13

National Climate Change Act (RUUPIN)

Current Status

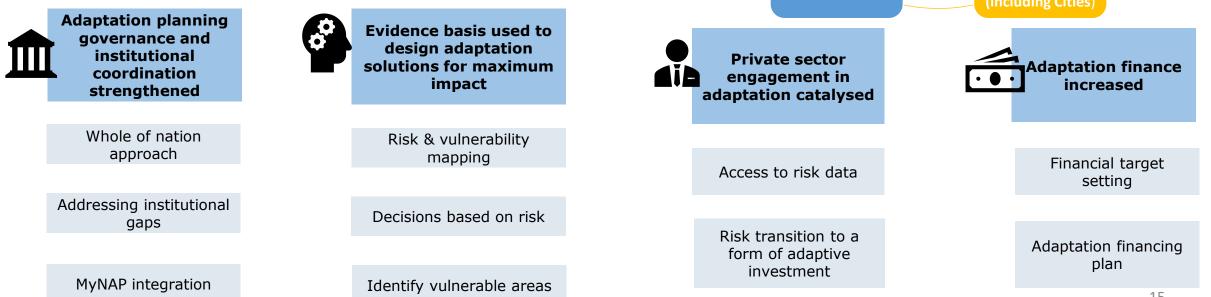
- Stakeholders engagement (federal and states and later on private sector and NGOs)
- Initial drafting (incorporating the views from stakeholders)

	 Act to regulate GHG emissions and removals in Malaysia (all 7 type of GHGs) including carbon dioxide (CO2)
Initial Thoughts On Key Provisions	 Role of minister on setting national GHG emissions reduction target and national carbon budget/ decarbonization plan
	Entity to govern / implement the act
	 Funds to support climate actions at domestic level
	 Compliance and voluntary mechanisms to support emissions reduction efforts
	 Reporting of climate change impacts
	Adaptation plans

Malaysia's National Adaptation Plan (MyNAP)

Goal: Increase the country's ability to mainstream adaptation actions through national development policies and strategies to build the resilience of vulnerable sectors and communities

Status: Malaysia submitted proposal to GCF through GIZ for Malaysia's NAP Development



Water Security & Coastal Resources Agriculture & Five pillars **Public Health Food Security** based on vulnerable thematic areas Infrastructure, **Forestry & Energy and Built** Environment **Biodiversity** (including Cities)

Carbon Market Development in Malaysia

- Cabinet of Ministers on 17th September 2021 agreed with to develop national carbon pricing policy including the development of emissions trading system (ETS)
- Mandate to Bursa Malaysia to develop voluntary carbon market (VCM) trading platform (Bursa Carbon Exchange – BCX) which is developed and launched on 9th December 2022
- Government developed the National Guidance on VCM for Forestry Sector (2020) and National Guidance on VCM (2021) which covering non-forestry sectors
- Currently NRES is developing national policy on carbon market in line with the principles and requirements under the Article 6 of the Paris Agreement



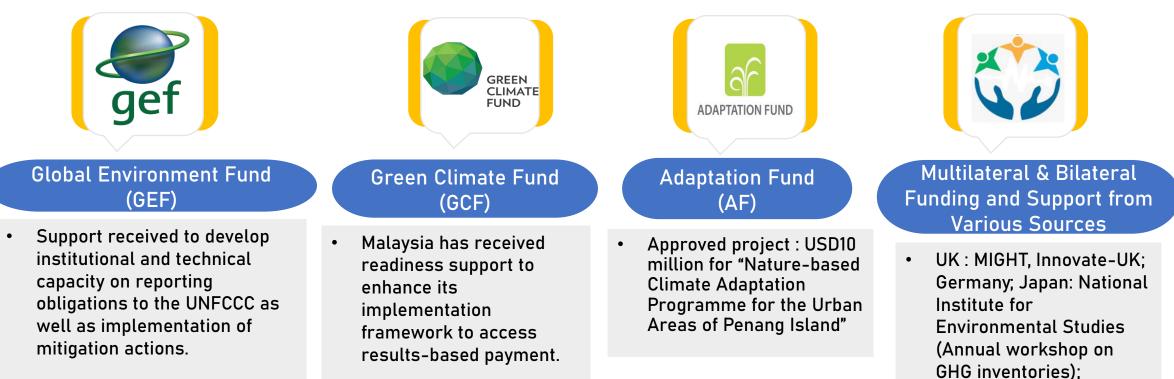
National Guidance on Voluntary Carbon Market Mechanisms

Carbon Pricing Development in Malaysia

- Carbon pricing (emissions trading scheme (ETS) and carbon tax) is a popular instrument to support decarbonization and green economy transition
- Malaysia with the support from The World Bank Group (WBG) currently undertaking feasibility study on carbon pricing mechanisms under the Partnership for Market Implementation (PMI) program
- Malaysia PMI will be implemented from 2023 2025
- CPIs covered under this study carbon tax and emissions trading system (ETS):
- i. Impact analysis and policy design;
- ii. MRV and registry development;
- iii. Domestic crediting scheme;
- iv. Capacity building and engagements.



FTC SUPPORT RECEIVED



Malaysia is also in the

funding to support the

comprehensive National

Adaptation Plan (NAP).

development of a

process of applying for

- Funding received to build-up technical and technological capacities of mitigation projects for the following sectors:
 - i. Transport
 - ii. Energy
 - iii. Forestry (peatland)
 - iv. Low Carbon Cities
 - v. Community Empowerment Projects

Training Sessions :

UNFCCC, CGE, IPCC

GIZ, ECBI

ASEAN, ADB, GCF, JICA,

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SUMMARY & WAY FORWARD

Revise and communicate new NDC in 2025 (before 10 February 2025)

Obtain Cabinet approval for NDC RAP and LTLEDS

Finalize the National Policy on Climate Change 2.0

Complete the drafting process of the National Climate Change Act (RUUPIN)

Finalize the National Policy on Carbon Market Mechanisms

Prepare and communicate Malaysia's first BTR (before 31 December 2024)

Ensure policy alignment with other policies and initiatives (NETR, NIMP, LT-LEDS, NDC, CCUS, carbon pricing, carbon market, etc.)