

PILOT PROJECTS IMPLEMENTATION ON STRENGTHENING TRANSPARENCY OF FACILITY-LEVEL GHG MEASUREMENT AND REPORTING (M&R) IN THE ASEAN REGION

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THE WORLD BANK

The World Bank is supporting carbon market development and carbon pricing preparation and implementation



Innovation, Product/ Process Development, Advisory, and Implementation



SCALING CLIMATE ACTION BY LOWERING EMISSIONS (SCALE)

provides results-based climate finance during investment project implementation in order to catalyze initial investments, assist repayment, and pay ongoing operating costs



Innovation: Climate Market Club, Climate Warehouse, Invest4Climate, Carbon Market Platform, New approaches, methodologies, and business models

Partnership for Market Implementation Country Programs
(Implementation of Carbon Tax, Emission Trading System and Crediting Mechanisms)

 **UNLOCKS CLIMATE FINANCE & AMBITION**



CARBON+ APPROACH PUTS PEOPLE FIRST



THREE PILLARS STRETCH ACROSS



Pillar 1: Natural Climate Solutions
Forest and land-use credit stacking: building on classic REDD+ by being more ambitious, comprehensive and inclusive.
Blue carbon: stored carbon in marine & coast ecosystems (e.g., mangroves, tidal peat swamps & marshes, sea grasses).
Climate-smart agriculture: integrated approach to cropland, rangelands and fisheries to increase productivity, deliver adaptation/resilience, & ERs.



Pillar 2: Sustainable Infrastructure Solutions
Energy transition: phasing out coal and scaling renewables in coal-consuming countries committed to decarbonization.
E-mobility: vehicle switching for high-mileage users, fleet replacements, and novel schemes (e.g., e-vehicle leasing & guarantees for charging infrastructure).
Low-carbon cities: energy efficient buildings, climate-smart urban planning, & low-carbon infrastructure/services.



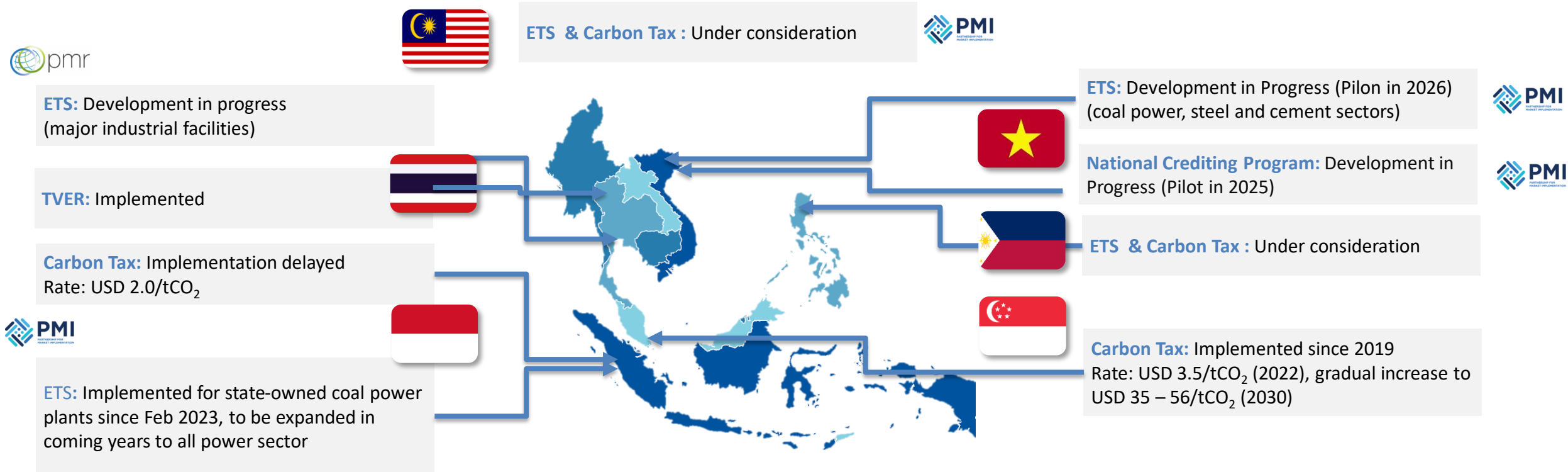
Pillar 3: Fiscal & Financial Solutions
Green financial sector reform: supporting policy and other changes to attract greater financial sector investment in climate action.
Subsidy reform: eliminating fossil fuel and agricultural subsidies to free up funds for productive/climate-smart uses.
Carbon taxes: results-based payments for ERs can offset the impacts on poorer consumers of higher carbon pricing.



The World Bank is supporting the ASEAN Member States' (AMS') development/implementation of CPIs and participation in international carbon markets

Six AMS have embarked on the preparation or implementation of carbon pricing instruments to protect interests in global supply chains and meet national and international climate targets and commitments. Two CPIs (tax in Singapore and ETS in Indonesia) have already been implemented. CPIs are under consideration in Malaysia, Philippines, Thailand, and Vietnam.

Status of Carbon Pricing Instruments in ASEAN



The World Bank is also supporting the ASEAN's Enhancing Cooperation on Carbon Pricing Among ASEAN Member States (AMS)

- This project is funded by the Government of Korea, and the National Environment Agency Singapore is the AMS Partner. It is a part of the ASEAN Working Group on Climate Change (AWGCC) Action Plan 2021-25.
- The project facilitates the AMS' understanding and engagement on enhanced regional cooperation on climate change mitigation **via carbon pricing**. It comprises three activities:

– **Activity 1:** Analysis of AMS national plans for CPI, identification of key opportunities for cooperation and preparation of an indicative road map for ASEAN cooperation and harmonization of policies and structures. >> **Roadmap for ASEAN CPI Cooperation and Harmonization**

– **Activity 2:** Evaluate the benefits and costs of regional cooperation via carbon pricing in ASEAN >> **Evaluation Report**

– **Activity 3:** AMS stakeholder dialogue, including organizing (virtual) consultation and dissemination workshops on the results of the regional CPI cooperation and harmonization analysis and on the proposed road map >> **Stakeholder Workshops**



The Roadmap is organized around four themes which have been derived from a combination of our assessments and priorities expressed by AMS. Regrading Improving MRV systems....



Theme 3: Improving MRV systems

AMS's priorities

Improving MRV systems across AMS, particularly at **the facility-level, and encouraging harmonisation of these systems** to enable mutual recognition as a precondition to international trade in carbon credits. This is further supported by the establishment of an ASEAN MRV knowledge hub.

Recognising and coordinating the existing cooperation initiatives related to ASEAN MRV guidelines, the Roadmap incorporates the CiACA and PaSTI-JAIF activities rather than duplicating them.

Possible Activities for further AMS cooperation

- Recognizing that some countries have not yet started to develop their GHG MRV systems, the **MRV knowledge hub** should arrange training sessions to address the key design elements at various stages of MRV systems.
- **Piloting of facility-level GHG Measurement and Reporting projects in AMS** following the steps in the Guidance State developed by the PaSTI-JAIF project, with support from the MRV knowledge hub.

CiACA: The Collaborative Instruments for Ambitious Climate Action; PaSTI: Partnership to Strengthen Transparency for Co-Innovation; JAIF: Japan ASEAN Integrated Fund

The World Bank's country-/theme-specific support to AMS have lots of synergies with Phase 3 of the PaSTI-JAIF project

Country- Specific Program



(a) National Registry and MRV Development Support (e.g., Indonesia, Malaysia, Vietnam)



(b) High-quality Emission Reduction Project Development (e.g., Vietnam)

Theme-Specific Support



(a) Design connected infrastructure for generating (dMRV), recording (registries) and tracking (CAD Trust) of ERCs (Climate Warehouse)

Phase 3 of the PaSTI-JAIF project

- (a) Facilitate the smooth introduction and operationalization of GHG M&R Framework in AMS
- (b) Promote and support the AMS government's efforts to incentivize the private sector towards adopting GHG M&R and stimulating emission reductions
- (c) Conduct capacity building technical seminars for AWGCC NFPs

