



Technical Assistance Report

Project Number: 46173-001
Regional—Capacity Development Technical Assistance (R-CDTA)
November 2012

Supporting the Use of Carbon Financing to Promote Green Growth in Asia and the Pacific (Cofinanced by the Regional Cooperation and Integration Fund)

Asian Development Bank

ABBREVIATIONS

ADB	–	Asian Development Bank
CDM	–	Clean Development Mechanism
DMC	–	developing member country
ETS	–	emission trading scheme
GHG	–	greenhouse gas
TA	–	technical assistance
UN	–	United Nations
UNFCCC	–	United Nations Framework Convention on Climate Change

TECHNICAL ASSISTANCE CLASSIFICATION

Type	–	Regional—capacity development technical assistance (R-CDTA)
Targeting classification	–	General intervention
Sector (subsectors)	–	Multisector: Energy (renewable energy, energy efficiency and conservation, energy sector development); water supply and other municipal infrastructure and services (waste management, urban sector development); agriculture and natural resources (irrigation, drainage, and flood protection; forestry); transport, and information and communication technology (urban transport, transport management and policies)
Themes (subthemes)	–	Environmental sustainability (global and regional transboundary environmental concerns); regional cooperation and integration (other regional public goods); capacity development (institutional development; client relations, network, and partnership development); economic growth (promoting economic efficiency and enabling business environment; knowledge, science, and technological capacities)
Climate change	–	Mitigation
Location (impact)	–	Rural (low); urban (medium); national (medium); regional (high)

NOTE

In this report, "\$" refers to US dollars.

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I. INTRODUCTION

1. The Asian Development Bank (ADB) established its Carbon Market Program in 2006 (then called the Carbon Market Initiative) to provide technical support and cofinancing to clean energy projects with greenhouse gas (GHG) mitigation benefits.¹ The technical support facility was carried out through technical assistance for (i) Preparing Clean Energy Projects Eligible for the Clean Development Mechanism (CDM); and (ii) Implementation of the Technical Support Facility under the Carbon Market Initiative.² Both TA projects were designed to assist low-carbon projects in developing member countries (DMCs) to benefit from the single regulated carbon market system—the CDM. The successful implementation of the technical support facility allowed ADB to scale up from less than 10 projects in 2006 to over 100 projects seeking to register as CDM projects in 2012. The proposed TA aims to build on the success of these two TA projects and continue to deliver a one-stop technical support facility to ADB's operational departments and DMC clients amidst the increasing complexity and developments of carbon market schemes particularly in 2013-2017 before a new global framework is in place. The concept paper for the TA was approved by the vice-president of knowledge management and sustainable development on 16 April 2012 for \$5 million.³

2. Under Strategy 2020, ADB identifies environmentally sustainable growth, including climate change, as a top development concern and a core area in its operations.⁴ ADB's *Addressing Climate Change in Asia and the Pacific: Priorities for Action* specifically states that innovative financing, especially including the carbon market, will also be extended.⁵ The TA also has important links and synergies with a number of ongoing and implemented ADB projects of operational departments.⁶

3. The TA will seek to be the knowledge platform for carbon markets. The outputs of the TA will be available through a public information portal so that other initiatives can benefit from the experience and lessons from implementation. The TA will share knowledge and information with existing non-ADB initiatives both within and outside the United Nations Framework Convention on Climate Change (UNFCCC) structure, other multilateral development banks, and United Nations (UN) organizations. The design and monitoring framework is in Appendix 1.

¹ The Carbon Market Program has three components: upfront carbon financing, technical support facility, and marketing support for carbon credits. The technical support facility provides capacity building, due diligence, documentation, and implementation support.

² ADB. 2006. *Technical Assistance for Preparing Clean Energy Projects Eligible for the Clean Development Mechanism*. Manila; ADB. 2007. *Technical Assistance for the Implementation of the Technical Support Facility under the Carbon Market Initiative*. Manila.

³ The TA first appeared in *ADB Business Opportunities* on 28 September 2012. The total amount of \$950,000 is because of early contributions from the Technical Assistance Special Fund and the Regional Cooperation and Integration Fund. Supplementary funding is expected in 2013 and thereafter for the remaining amount to provide full support for the areas indicated in this TA report and expand the scope as envisioned in the approved concept paper and extend the implementation period until December 2017.

⁴ ADB. 2008. *Strategy 2020: The Long-Term Strategic Framework of the Asian Development Bank, 2008–2020*. Manila.

⁵ ADB. 2010. *Addressing Climate Change in Asia and the Pacific: Priorities for Action*. Manila.

⁶ ADB. 2010. *Technical Assistance for Empowering the Poor through Increasing Access to Energy*. Manila; ADB. 2010. *Technical Assistance to the People's Republic of China for Study on Beijing Green Finance Development Strategy*. Manila; ADB. 2010. *Technical Assistance for Knowledge Platform Development for the Asia Solar Initiative*. Manila; ADB. 2010. *Technical Assistance for Needs Assessment and Development of the Solar Energy Program*. Manila; ADB. 2010. *Technical Assistance for Promoting Renewable Energy, Clean Fuels, and Energy Efficiency in the Greater Mekong Subregion*. Manila; ADB. 2009. *Technical Assistance for Enabling Climate Change Interventions in Central and West Asia*. Manila; ADB. 2011. *Technical Assistance to the People's Republic of China for Developing Tianjin Emission Trading System*; and ADB. 2011. *Technical Assistance for Establishing a Pilot Center to Facilitate Climate Technology Investments in Asia and the Pacific*. Manila.

II. ISSUES

4. The Asia and Pacific region has a key role in addressing global climate change issues. Due to rapid economic growth, it is becoming a major source of GHG emissions largely because of the increasing demand for energy. Emissions from producing energy in developing Asia have grown by 194% since 1990. Business-as-usual projections by the International Energy Agency suggest Asia's share in global GHG emissions could increase from 35% in 2009 to 46% by 2030, surpassing emissions from Organisation for Economic Co-operation and Development countries.⁷ It is clear that decoupling the region's growth from carbon emissions is pivotal in the global efforts to mitigate climate change.

5. Limited public sector financing highlights the need to mobilize the market for low-carbon development. Enormous investments will be required to meet the growing needs of developing countries while they transit to a low-carbon path. Many studies estimate additional funding needs for climate change mitigation in developing countries to be more than \$100 billion per year by 2020, with a significant portion needed in Asia. In November 2010, the UN secretary-general's high-level advisory group on climate change financing presented a report on potential sources of financial resources to support developing countries in addressing climate change.⁸ The report identified the carbon market as one of the feasible long-term financing sources for developing countries seeking to fill the gaps in international climate financing.

6. In 2010, the 16th Conference of the Parties to the UNFCCC adopted the Cancun Agreements stipulating GHG mitigation initiatives by the Parties by 2020. In 2011, COP17 adopted another milestone agreement to define the second commitment period of the Kyoto Protocol and began to develop a protocol, another legal instrument or an agreed outcome with legal force by 2015 to be implemented in either 2018 or 2020, with decisions on developing new market-based mechanisms.⁹ These agreements and decisions allow the carbon market to continue beyond 2012 and support the emergence of a new carbon market that will not be limited to the CDM. Thus, the DMCs will need capacity building assistance to assess new methodologies, new rules of implementation, and additional expertise to integrate new mechanisms in financial planning. In addition to direct project support, knowledge-sharing platforms such as workshops, seminars, and e-courses will be helpful for capacity building interventions.

7. Domestic emission trading schemes (ETs) need to be interlinked in preparation for scaling up to the regional and global levels. Domestic markets are in place in Asia and the Pacific, such as in Australia, Japan, the Republic of Korea, and New Zealand, while many DMCs have started to develop their own ETs, including the People's Republic of China, India, and Viet Nam. To enable cooperation and possible future integration under a regional or global market, it will be critical to engage in dialogues early in the development of these domestic schemes. Different countries with different rules and standards will lead to fragmentation and loss of economic efficiency in addressing climate change, and may unnecessarily complicate procedures for potential future harmonization. Technical and policy dialogues would be best facilitated by a third party such as ADB to ensure that the interlinkages among the ETs are independently analyzed for technical merit and can be practical and sustainable to implement.

⁷ International Energy Agency. 2011. World Energy Outlook..

⁸ United Nations. 2010. *Report of the Secretary-General's High-Level Advisory Group on Climate Change Financing*. <http://www.un.org/wcm/content/site/climatechange/pages/financeadvisorygroup/pid/13300>

⁹ United Nations. 2011. *Durban Climate Change Conference*. http://unfccc.int/meetings/durban_nov_2011/meeting/6245/php/view/decisions.php

8. While there is little doubt that carbon finance will continue to be a large source of climate funding well beyond 2012, the uncertainty of global climate negotiations, the mix of existing and emerging mechanisms, and the combination of international and domestic trading schemes are increasingly making matters complex for DMCs. This transitional period prior to the new global framework is precisely the time when multilateral development institutions such as ADB are expected to support DMCs in utilizing carbon financing to maintain the momentum for countries pursuing low-carbon, environmentally sustainable growth.

III. THE TECHNICAL ASSISTANCE

9. The TA will build on the success of the previous projects to operationalize the technical support facility under the Carbon Market Program and continue to deliver a one-stop technical support facility to ADB's operational departments and DMC clients before a new global framework is put in place in 2017. The TA implementation team will track new developments in the carbon market both within and outside the UNFCCC process and will (i) continue to support the participation of DMCs, especially the underrepresented countries and sectors, in the implementation of CDM projects; and (ii) facilitate regional cooperation between emerging domestic ETSS.

A. Impact and Outcome

10. The impact will be the promotion of green growth and low-carbon development in developing Asia and the Pacific through access to carbon markets as a catalytic financial instrument. The outcome will be increased utilization of both existing and new types of CDMs by DMCs that will facilitate low-carbon development and the interlinkage of domestic ETSS to enhance regional cooperation in Asia and the Pacific in a most cost-effective way.

B. Methodology and Key Activities

11. The TA will develop practical knowledge and experience in carbon market mechanisms that can inform and support DMCs in the implementation of GHG mitigation projects. The key outputs will include (i) direct project support and targeted capacity building activities for DMCs, especially the underrepresented countries and sectors in the CDM; (ii) advisory material, and reference guides to enhance regional cooperation across domestic ETSS and enable stronger linkages in the future including possible integration; and (iii) workshops for cross-sharing of knowledge on the setup and implementation of domestic ETSS.

12. Component A: Clean Development Mechanism Support. COP17 in Durban has ensured the continuation of the CDM beyond 2012. Although CDM support will continue for all eligible parties, there is a strong call by a section of developed countries (i.e., the European Union) to support underrepresented countries and sectors. The TA will continue to support DMCs in developing eligible GHG emission reduction project activities under the CDM and helping to sell their carbon credits to carbon buyers mainly through (i) the facilitation of the development of CDM projects in DMCs with special emphasis on underrepresented countries and sectors; (ii) assistance to develop a standardized baseline as a useful tool for the implementation of CDM projects; (iii) the development of methodologies and tools for underrepresented project types such as demand-side energy management, transport, and land use; and (iv) the facilitation of more targeted training of local experts to enable DMCs to implement CDM projects on a more sustainable basis. The ongoing collaboration with UN agencies and other partners, such as the UNFCCC, the UN Environment Programme, and the Institute for Global

Environmental Strategies (Japan), will be enhanced to promote the CDM in Asia and the Pacific in a much more concerted way.

13. Component B: Domestic Emission Trading Market Linkage. Several DMCs in the region are developing their own ETS including the People's Republic of China, India, and Viet Nam. This component will support knowledge-sharing on domestic ETSS among interested DMCs, assess the feasibility of regional interlinkages among ETSS, and facilitate the linkages in the region by (i) conducting workshops and training courses; (ii) carrying out feasibility studies on regional interlinkage among the domestic ETSS; and (iii) facilitating policy and technical dialogues among interested countries with ETSS to develop advisory materials and possible guides and technical references.

14. The major assumptions and risks are identified in the design and monitoring framework (Appendix 1). To minimize these risks, the TA will (i) monitor developments in the international and regional arenas in climate change actions and project activities; (ii) adopt a flexible project design, including in its governance; (iii) adopt a participatory and consultative approach in project planning, design, and implementation among stakeholders to ensure strong ownership; (iv) where necessary, forge formal agreements such as memoranda of understanding or agreements to define key responsibilities; and (v) tap existing networks to identify and engage qualified experts for the project.

C. Cost and Financing

15. The TA is estimated to cost \$950,000, of which (i) \$500,000 will be financed on a grant basis by ADB's Technical Assistance Special Fund (TASF-IV), and (ii) \$450,000 will be financed on a grant basis by the Regional Cooperation and Integration Fund.¹⁰ Funding from the Regional Cooperation and Integration Fund will be used only for component B activities for which the fund confirmed its allocation. The cost estimates and financing plan are in Appendix 2.

D. Implementation Arrangements

16. ADB will be the executing agency for the TA, with the Regional and Sustainable Development Department responsible for implementing it. The initial implementation period of the TA will be from December 2012 to December 2013 with a possibility of extension based on the funding situation.

17. The TA will require 35 person-months international and 25 person-months national individual consultant inputs. Appendix 3 provides the outline terms of reference for the consultants. Individual consultants will be recruited because of the need for specialized and/or country-specific expertise. ADB will engage consultants in accordance with the Guidelines on the Use of Consultants (2010, as amended from time to time). The procurement of equipment and other supplies will be in accordance with ADB's Procurement Guidelines (2010, as amended from time to time). The turnover or disposal of equipment purchased under the TA will be in accordance with the relevant ADB guidelines. Disbursements under the TA will be made in accordance with the *Technical Assistance Disbursement Handbook* (2010, as amended from time to time).

18. ADB will engage a team leader to provide guidance to the team members, coordinate all inputs from all consultants under the TA, and ensure the overall timely delivery of the key

¹⁰ Established by ADB.

outputs. A team of international and national experts will support the team leader and interact closely with the operations departments for feedback on particular areas or sectors requiring assistance. The team will coordinate with operations departments during TA implementation to ensure that the TA complements its current and planned efforts to carry out national climate change priorities, and with support departments like the Central Operations Services Office, Controller's Department, Office of Cofinancing Operations, and Office of the General Counsel to meet implementation requirements including funds disbursements, utilization, and reporting. The team will also work and liaise with partner organizations. Lessons learned will be accessible to interested parties internally and externally to facilitate and support future capacity development efforts.

IV. THE PRESIDENT'S DECISION

19. The President, acting under the authority delegated by the Board, has approved the provision of technical assistance not exceeding the equivalent of \$950,000 on a grant basis for Supporting the Use of Carbon Financing to Promote Green Growth in Asia and the Pacific, and hereby reports this action to the Board.

DESIGN AND MONITORING FRAMEWORK

Design Summary	Performance Targets and Indicators with Baselines	Data Sources and Reporting Mechanisms	Assumptions and Risks
Impact Green growth and low carbon development in ADB's DMCs promoted	Reduction in greenhouse gas emissions intensity among DMCs by 25% in 2013-2025 (1990–2002 baseline: 12%)	Investment development reports UNFCCC website	Assumptions DMCs will have access to concessional financing for green growth projects. All DMCs have equal opportunity to participate in all emission trading schemes. Risks Lack of capacity in certain DMCs to develop and sustain green growth initiatives, particularly in emission trading schemes. Lack of government buy-in of the advantages of participating in green growth initiatives.
Outcome Increased utilization of both existing and new types of carbon market mechanisms by DMCs	Number of projects and/or investments in supporting DMCs using carbon markets increase by 10% annually compared to 2008–2012	CDM executive board report UNFCCC website Government and public information sources	Assumptions DMCs will have policies that will encourage and support the creation of carbon markets. Risks International negotiations may not yield expected results, or the carbon market may collapse, thereby reducing incentives to DMCs. Lack of available resources such as investment, domestic capacity for market development, and data collection skills.

Design Summary	Performance Targets and Indicators with Baselines	Data Sources and Reporting Mechanisms	Assumptions and Risks
Outputs 1. Direct project support provided and targeted capacity building activities for DMCs and underrepresented countries in the CDM conducted 2. Development and linkages of domestic ETSs facilitated 3. Workshops for cross-sharing of knowledge on the setup and implementation of domestic ETSs.	At least 10 additional ADB projects supported and 2 capacity building training workshops on the CDM conducted in DMCs by 2013 3–5 additional projects validated and/or registered to benefit from carbon financing At least two DMCs received ETS knowledge support and proposal and/or recommendation of an ETS linkage developed 4 workshops conducted to share and promote domestic ETSs and linkages	TA progress report UNFCCC website TA progress report Workshop report	Assumptions Demand for carbon credits continues. DMCs are willing to participate in the regional carbon market. Risks System and regulatory environment compatibility are not readily available in some target DMCs. Carbon credit is not a recognized commodity in most DMCs.
Activities and Milestone		Inputs	
1.1. Identification of potential CDM projects in ADB's pipeline 1.2. Development of potential projects under the CDM and registration with UNFCCC 1.3. Actual generation of emission reduction units from project and issuance of certified emission reductions 1.4. CDM capacity building workshops for underrepresented countries and sectors 1.5. Identification of areas for standardized baseline in DMCs and facilitation of their development 1.6. Facilitation of CDM project registration in underrepresented countries and sectors and generation of certified emission reductions 1.7. Collaboration with partners in providing CDM project development and capacity building support 2.1 Assistance to DMCs for building domestic ETSs, including monitoring, review, and verification system 2.2 Assessment of feasibility to create regional interlinkages 2.3 Development of basic framework for building interlinkage among domestic ETSs 2.4 Development of advisory material, guides and other technical reference to enhance regional cooperation across domestic ETSs 2.5 Workshops to facilitate interlinkages among domestic ETSs		ADB: (i) Technical Assistance Special Fund: \$500,000 (ii) Regional Cooperation and Integration Fund: \$450,000	
		Item	Amount (\$'000)
		Consultants (60 person-months)	827.0
		Equipment	7.0
		Training, seminars, workshops	80.0
		Administration	16.0
		Contingencies	20.0
		TOTAL	950.0

ADB = Asian Development Bank; CDM = Clean Development Mechanism; DMC = developing member country; ETS = emission trading scheme; TA = technical assistance; UNFCCC = United Nations Framework Convention on Climate Change.

COST ESTIMATES AND FINANCING PLAN

(\$'000)

Item	Amount
Asian Development Bank^a	
A. Technical Assistance Special Fund (TASF-IV)	
1. Consultants	
a. Remuneration and per diem	
i. International consultants (20 person-months)	380.00
ii. National consultants (19 person-months)	50.00
b. International and local travel	
i. International travel	20.00
ii. Local travel	12.00
c. Reports and communications	5.00
2. Equipment ^b	7.00
3. Training, seminars, workshops, and conferences ^c	10.00
4. Miscellaneous administration and support costs	6.00
5. Contingencies	10.00
Subtotal (Component A)	500.00
B. Regional Cooperation and Integration Fund	
1. Consultants	
a. Remuneration and per diem	
i. International consultants (15 person-months)	270.00
ii. National consultants (6 person-months)	30.00
b. International and local travel	
i. International travel	40.00
ii. Local travel	10.00
c. Reports and communications	10.00
2. Training, seminars, workshops, and conferences ^c	70.00
3. Miscellaneous administration and support costs	10.00
4. Contingencies	10.00
Subtotal (Component B)	450.00
Total	950.00

^a Cofinanced by the Asian Development Bank's Technical Assistance Special Fund (TASF-IV) and Regional Cooperation and Integration Fund.

^b Includes computers, software, accessories, and other small equipment.

^c Includes honorarium and travel costs for resource persons and facilitators, participants' travel costs, staff travel costs as resource persons and/or speakers, and logistical costs.

Source: Asian Development Bank estimates.

OUTLINE TERMS OF REFERENCE FOR CONSULTANTS

1. A team of international and national consultants with expertise on overall carbon market dynamics and requirements and technical aspects of Clean Development Mechanism (CDM) projects and emission trading schemes will be engaged to assist in technical assistance (TA) implementation. Individual consultants will be recruited because of the need for specialized and/or country-specific expertise. The Asian Development Bank (ADB) will engage all consultants in accordance with its Guidelines on the Use of Consultants (2010, as amended from time to time).

A. International Consultants

1. **Carbon market advisor-team leader** (4 person-months). The advisor will
 - (i) provide guidance to the team members on technical matters related to carbon market;
 - (ii) review the draft reports prepared by team members, ensure the highest level of accuracy and professionalism, and provide feedback and suggestions;
 - (iii) keep up to date on international and regional developments on carbon markets and provide inputs to the team;
 - (iv) guide the TA coordinator in preparing regular progress reports and maintaining a database of projects;
 - (v) serve as the resource person in technical missions and events organized by ADB's Carbon Market Program;
 - (vi) provide advice to ADB's operations departments on carbon market issues and join missions as needed;
 - (vii) collaborate with other teams within the Carbon Market Program and provide inputs as needed; and
 - (viii) provide any other inputs required by the project officer on carbon markets and assistance during implementation of the TA.
2. **Carbon market specialists** (2 individual experts, 16 person-months). The specialists will
 - (i) gather and review existing information and data on the (a) CDM and (b) new carbon market mechanisms in the developing member countries (DMCs) and ADB pipeline projects with potential CDM components, considering the additionality of each project;
 - (ii) carry out necessary capacity building activities as identified by the team leader and project officer;
 - (iii) verify evaluations completed by national consultants on ADB's project pipeline to determine the greenhouse gas (GHG) emissions reduction potential;
 - (iv) provide carbon market-related technical support to ADB's operations departments and participate in missions as required in consultation with national experts and international technical advisors as necessary, including but not limited to the following tasks and deliverables:
 - (a) prepare CDM assessment reports of projects;
 - (b) prepare project design documents;
 - (c) develop new baseline and monitoring methodologies;
 - (d) assist project entities in gaining approval from host country authorities and third-party validators, and register the project with the CDM executive board;

- (e) assist project developers in implementing CDM projects after loan execution;
- (f) prepare emission reduction market assessment reports of projects;
- (g) prepare documents as required by various market mechanisms;
- (h) assist in the development of new baseline and monitoring methodologies including methodologies related to the standardized baseline; and
- (i) assist the project developers and ADB officers in the preparation of documents based on the requirement of the mechanism;
- (v) draft project progress reports and submit them to the team leader;
- (vi) follow international developments in the mitigation of GHG emissions and the CDM, and apprise the team leader and the project officer accordingly; and
- (vii) perform other CDM-related work under the TA as assigned by the team leader and project officer and director.

3. Carbon market specialists (emission trading scheme) (2 individual experts; 15 person-months). The specialists will

- (i) gather and review existing information and data on the emission trading schemes (ETSs) in developing and developed countries, and on regional ETSs;
- (ii) carry out necessary capacity-building activities, as identified by the team leader and TA project officer, to suit the requirements of the identified market mechanisms;
- (iii) verify assessments completed by national consultants on the domestic and regional ETSs;
- (iv) provide carbon market and regional emission trading-related technical support to ADB's operations departments, and participate in missions in consultation with national experts and international technical advisors as necessary, including but not limited to the below tasks and deliverables:
 - (a) prepare assessment reports on domestic and regional ETSs;
 - (b) prepare documents as required on market mechanisms;
 - (c) assist DMCs and ADB project officers in preparation of documents as per requirements of the mechanism; and
 - (d) draft progress reports on the projects and submit them to the team leader;
- (v) follow international developments in carbon markets and apprise the team leader and the TA project officer accordingly; and
- (vi) perform other carbon market-related work under the TA as assigned by the team leader and project officer and director.

B. National Consultants

1. Clean Development Mechanism experts (2 individual experts; 10 person-months). The experts will support the international consultants and will have expertise in CDM and energy projects. The experts will also

- (i) gather and review existing information and data on the CDM in the DMCs and ADB pipeline projects with potential CDM components;
- (ii) compile and analyze evaluations by consultant retainers of ADB pipeline projects, and isolate any issues that must be discussed;
- (iii) assist in drafting the terms of reference for consultant retainers;
- (iv) assist the international CDM expert and team leader in coordinating with the consultant retainers on the development and implementation process of selected CDM projects, including the preparation of CDM assessment reports,

- project design documents, new baseline and monitoring methodologies, and host country approval documents;
- (v) assist the international CDM expert during the implementation phase of selected CDM projects, and draft progress reports to be submitted to the team leader and RSID project officer; and
- (vi) perform other related project tasks as assigned by the team leader and RSID project officer and director.

2. Emission trading mechanism experts (2 individual experts; 6 person-months).

The national experts will support the international consultants and will have expertise in emission trading mechanisms. The experts will also

- (i) gather and review existing information and data on the regional emission trading mechanisms in DMCs;
- (ii) carry out necessary capacity-building activities as identified by the team leader and RSID project officer to suit the requirements of the identified market mechanisms;
- (iii) prepare assessments on the domestic and regional ETSS;
- (iv) provide carbon market and regional emission trading-related technical support to ADB's operations departments and participate in missions as required in consultation with international consultants as necessary, including but not limited to the below tasks and deliverables:
 - (a) prepare regional emission reduction market assessment reports;
 - (b) prepare documents as required by various market mechanisms;
 - (c) assist DMCs and ADB officers in preparation of documents as per requirements of the mechanism; and
 - (d) draft progress reports on the projects and submit them to the team leader;
- (v) follow international developments on carbon markets and apprise the team leader and the RSID project officer accordingly; and
- (vi) perform other carbon market-related work under the TA as assigned by the team leader and RSID project specialist and director.

3. Technical assistance coordinator (9 person-months). The coordinator will provide overall assistance during TA implementation and will also

- (i) support coordination and integration between the TA and the other activities of the Carbon Market Program and the teams working under it;
- (ii) coordinate activities of TA subprojects, ensuring their national links;
- (iii) assist other subproject teams in coordination and liaison activities;
- (iv) prepare and update the TA overall work plan and budget;
- (v) organize and participate in meetings, workshops, and training, and provide assistance in report and proceeding preparation;
- (vi) create and manage project databases and records;
- (vii) prepare progress reports, briefing notes, correspondence, and other documents that may be required by ADB and partners;
- (viii) conduct dissemination and outreach activities; and
- (ix) review the scope and modality of the pilot finance center and formulate appropriate recommendations.