Viet Nam: Climate Change Impact and Adaptation Study in the Mekong Delta

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<th>Project Name</th>
<th>Climate Change Impact and Adaptation Study in the Mekong Delta</th>
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<td>Project Number</td>
<td>43295-012</td>
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<td>Country</td>
<td>Viet Nam</td>
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<td>Project Status</td>
<td>Closed</td>
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<td>Project Type / Modality of Assistance</td>
<td>Technical Assistance</td>
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<td>Source of Funding / Amount</td>
<td>TA 7377-VIE: Climate Change Impact and Adaptation Study in the Mekong Delta</td>
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<td>Climate Change Fund</td>
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<td>Strategic Agendas</td>
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<td>Inclusive economic growth</td>
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<td>Drivers of Change</td>
<td>Governance and capacity development</td>
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<td>Sector / Subsector</td>
<td>Agriculture, natural resources and rural development - Water-based natural resources management</td>
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<td>Gender Equity and Mainstreaming</td>
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The Government of Viet Nam has requested the Asian Development Bank (ADB) for technical assistance (TA) to undertake a study on climate change impact and adaptation in the Mekong Delta. The TA supports the Government's National Target Plan (NTP) for responding to climate change, as well as Viet Nam's commitments under the United Nations frameworks. It complements the Government's national socioeconomic development plan and Comprehensive Poverty Reduction and Growth Strategy.

Total cost of the TA is expected to be $1,630,000 equivalent, of which (i) $800,000 will be financed on a grant basis by the Government of Australia, and administered by ADB; and (ii) $500,000 will be financed on a grant basis by the Climate Change Fund. The Government will finance the remaining $330,000 in kind, covering the costs of office accommodation, transport, utilities, remuneration for counterpart staff, as well as training and workshop facilities.

The TA will be implemented in two parts. Part A is climate change prediction and impact assessment, while part B is climate change adaptation and planning. Part A will include output 1: identification of future climate conditions in the Mekong Delta region; and output 2: assessment of the effects of future climate scenarios on natural, social, and economic systems in the Mekong Delta region. Part B will include output 3: identification of appropriate climate change adaptation measures for target provinces and targeted regional sectors; and output 4: development of pilot projects for scaling up and replication of TA outcomes and support to collaborative mechanisms for information sharing and coordinated action on climate change. Both parts of the TA will incorporate institutional strengthening activities for Government decision makers and technical staff, as well as awareness raising activities for the community (output 5). A fundamental principle of the TA will be to implement a participatory approach involving national and provincial government representatives.

The expected outcome is that sector and provincial authorities in the Mekong Delta region will have developed the capacity to increase climate-resilience of programs, plans, policies, and/or projects to guide future development planning. This outcome will result in increased climate change resilience in the region and contribute to poverty reduction through (i) climate-proofed socioeconomic development planning at provincial level (e.g., urban land use planning to avoid flooding of sensitive areas, adjusting agricultural patterns to adapt to changing drought or salinity conditions, providing such protective infrastructure as dikes, or enhancing natural protective ecosystems); (ii) adoption of regional adaptation measures to protect agricultural production and thus the livelihoods of poor, near poor, and rural households through structural and nonstructural measures; and (iii) development of climate-resilient infrastructure in the transport and energy sectors that will aid in protecting the livelihoods of vulnerable groups, as well as in supporting overall economic development.

Target provinces selected for the TA are Ca Mau and Kien Giang. Kien Giang was chosen because it has a conventional coastal and insular environment with a westerly aspect that is less exposed to mainstream hydrological influences. Existing community development and natural resource projects in this province will provide data sources and useful information to local stakeholders. Ca Mau was selected as it is a large coastal province with a diverse mixture of land use types, remnant natural ecosystems, important infrastructure development in the energy and transport sectors, and pockets of high poverty rates and ethnic minority groups.

Regional sectors targeted for the TA are agriculture, energy, and transport. The agriculture sector was selected due to the region's importance to national food production and the population's high reliance on agricultural activities for its livelihoods. Agriculture is identified as a key sector for climate change adaptation in the region, and it is the subject of the Government's action plan for adaptation to climate change in agriculture and rural development. Energy and transport were selected as target sectors due to (i) the vulnerability of energy and transport infrastructure to climate change, (ii) the importance of energy and transport infrastructure to economic growth and to enhancing livelihoods in vulnerable communities; and (iii) the presence of important national energy and transport infrastructure in the Mekong Delta region.

The Department of Meteo-Hydrology and Climate Change within MONRE will be the executing agency. The provincial people's committees of Ca Mau and Kien Giang will be implementing the activities at provincial level. There will be established within each province a steering committee (chaired by the vice-chairperson of the provincial people's committee) and with the deputy director of DONRE as vice-chairperson) and a project management unit (headed by the deputy director of DONRE and composed of technical staff from the relevant departments). Regional activities at sectoral level will be carried out by a regional sector technical working group chaired by the Department of Meteo-Hydrology and Climate Change. The working group will be responsible for (i) guiding study activities related to regional sector analyses; (ii) providing technical inputs; (iii) sharing information, collaborating on study progress and outcomes, and liaising with senior decision makers and technical staff within relevant ministries and agencies; (iv) reviewing study outputs and contributing to evaluation and prioritization of regional sector adaptation options; and (v) disseminating study findings to national and subnational decision makers and technical staff and to relevant international institutions.

The TA aligns with ADB's overall poverty reduction goals for assistance to Viet Nam. It is also consistent with recent interventions identified in the CPS and the COBP 2009 to 2011 relating to a proposed TA supporting the Government to implement the NTP, and the mainstreaming of climate change considerations in the ADB's assistance program to Viet Nam. The location of the project in the Mekong Delta region aligns with the priority given to densely populated areas in allocation of Climate Change fund (CCF) support. The TA will be beneficial to other projects being carried out by ADB in the Mekong Delta region, including the Central Mekong Delta Region Connectivity Project, the O Mon Thermal Power Project and the O Mon Gas pipeline project. The TA outputs will include advice to authorities on climate proofing of such infrastructure thereby enhancing its long-term sustainability.

### Project Rationale and Linkage to Country/Regional Strategy

The TA supports the Government's National Target Plan for responding to climate change, as well as Viet Nam's commitments under the United Nations frameworks and complements the Government's national socioeconomic development plan and Comprehensive Poverty Reduction and Growth Strategy. It will contribute to the Government's socioeconomic development goals of poverty reduction and continued economic growth as contained in the national socioeconomic development plan and the Comprehensive Poverty Reduction and Growth Strategy. It will also contribute to fulfilling the goal of the NTP in relation to addressing climate change issues within a context of poverty alleviation and sustainable development.

The expected impact is that poor and rural people in the Mekong Delta region will have developed physical and economic resilience to future climate change and variability. The TA will contribute to the Government's socioeconomic development goals of poverty reduction and continued economic growth as contained in the national socioeconomic development plan and the Comprehensive Poverty Reduction and Growth Strategy. It will also contribute to fulfilling the goal of the NTP in relation to addressing climate change issues within a context of poverty alleviation and sustainable development.

### Impact

Rural and poor people in the Mekong Delta region develop physical and economic resilience to future climate change and variability.

### Project Outcome

- Sector and provincial authorities in the Mekong Delta region have developed capacity to increase the climate-resilience of programs, plans, policies, and/or projects to guide future development planning.
- The TA will be implemented in two parts. Part A is climate change prediction and impact assessment, while part B is climate change adaptation and planning.

### Progress Toward Outcome

- Sector and provincial authorities in the Mekong Delta region have developed capacity to increase the climate-resilience of programs, plans, policies, and/or projects to guide future development planning.

### Implementation Progress

1. Climate change model outputs for potential future climatic conditions in Mekong Delta region
2. Documentation of effects of future climate conditions on natural, social, and economic systems
3. Documentation of appropriate climate change adaptation measures in two targeted provinces and three targeted sectors' programs, plans, projects, and/or policies
4. Development of pilot projects to allow upscaling and replication of TA outcomes, and support to collaborative mechanisms for information sharing and coordinated action on climate change in the Mekong Delta region
5. Institutional strengthening provided to enable authorities to fulfill their development responsibilities in future climate conditions while increasing community awareness of climate change issues and adaptation measures

### Status of Implementation Progress (Outputs, Activities, and Issues)

- Project design
- Work planning and execution
- Quality assurance
- Monitoring and evaluation
- Knowledge management

### Geographical Location

The project focuses on the Mekong Delta region in Viet Nam, covering the provinces of Ca Mau and Kien Giang.

### Summary of Environmental and Social Aspects

- Environmental Aspects
- Geographical Location
- Activities, and Issues)
- Status of Implementation Progress (Outputs, Programs, plans, policies, and/or projects to guide future development planning.
- Implementation Progress
Stakeholder Communication, Participation, and Consultation

During Project Design
During Project Implementation

Business Opportunities

Consulting Services
Two sets of firm consultants will be engaged for Part A and B respectively.
(i) Part A (Climate Change Prediction and Impact Assessment) - engagement completed.
(ii) Part B (Climate Change Adaptation and Planning) - recruitment ongoing

Procurement
Procurement of desktop and laptop computers and associated hardware and software for data acquisition, processing, and modeling. The procured goods will be turned over to the Executing Agency at the end of the TA.

Responsible ADB Officer: Sorkin, Lauren N.
Responsible ADB Department: Southeast Asia Department
Responsible ADB Division: Viet Nam Resident Mission
Executing Agencies: Ministry of Natural Resources and Environment
Ms Tran Thi Minh Ha
Hai Noi, Viet Nam

Timetable

Concept Clearance: 09 Jul 2009
Fact Finding: 10 Jun 2009 to 11 Jun 2009
MRM: -
Approval: 11 Nov 2009
Last Review Mission: -
PDS Creation Date: 13 Jul 2009
Last PDS Update: 01 Apr 2014

TA 7377-VIE

Milestones

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Financing Plan/TA Utilization

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Project Page: https://www.adb.org/projects/43295-012/main
Request for Information: http://www.adb.org/forms/request-information-form?subject=43295-012
Date Generated: 16 February 2020

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