



Bhutan: Adapting to Climate Change through Integrated Water Resources Management

Project Name	Adapting to Climate Change through Integrated Water Resources Management						
Project Number	46463-002						
Country	Bhutan						
Project Status	Closed						
Project Type / Modality of Assistance	Technical Assistance						
Source of Funding / Amount	<table border="1"> <tr> <td colspan="2">TA 8623-BHU: Adapting to Climate Change through Integrated Water Resources Management</td> </tr> <tr> <td>Japan Fund for Poverty Reduction</td> <td>US\$ 1.50 million</td> </tr> <tr> <td>Multi-Donor Trust Fund under the Water Financing Partnership Facility</td> <td>US\$ 250,000.00</td> </tr> </table>	TA 8623-BHU: Adapting to Climate Change through Integrated Water Resources Management		Japan Fund for Poverty Reduction	US\$ 1.50 million	Multi-Donor Trust Fund under the Water Financing Partnership Facility	US\$ 250,000.00
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Multi-Donor Trust Fund under the Water Financing Partnership Facility	US\$ 250,000.00						
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth						
Drivers of Change	Governance and capacity development Partnerships						
Sector / Subsector	Agriculture, natural resources and rural development - Irrigation - Rural flood protection - Water-based natural resources management						
Gender Equity and Mainstreaming	No gender elements						
Description	This capacity development technical assistance (CDTA) project will support the National Environment Commission (NEC) and other relevant government agencies to implement specific elements of the 2011 Water Act and related Water Regulation (to be approved), and promote IWRM to facilitate effective river basin management and strengthen resilience to current variability and anticipated impacts of future climate change.						
Project Rationale and Linkage to Country/Regional Strategy	The Government of Bhutan identifies integrated water resources management (IWRM) as a cross-cutting objective of the environment sector in the Tenth (2008-2013) and draft Eleventh (2014-2019) Five-Year Plans (FYPs), and has enacted the 2011 Water Act founded on the principles of IWRM. IWRM is to play an important role in Bhutan: facilitating the sustainable development of Bhutan's vast hydro-power resources while protecting the quality of the country's watersheds; addressing water scarcity issues for drinking and agriculture; and managing the risk of water induced disasters.						
Impact	Climate-adaptive water resource management is adopted						

Project Outcome

Description of Outcome	Institutional capacity for IWRM is improved
Progress Toward Outcome	Successful completion of the outputs has improved Bhutan's institutional capacity for IWRM.

Implementation Progress

Description of Project Outputs	<ul style="list-style-type: none"> NIWRMP is finalized River Basin Management Plan for one priority major river basin is finalized The National Irrigation Master Plan is finalized Water resources governance strengthened
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Status of Implementation Progress (Outputs, Activities, and Issues)	<p>The National Integrated Water Resources Management Plan (NIWRMP) analyses a number of water-related issues, as well as the governance and legal framework in the context of IWRM.</p> <p>The Wangchhu Basin Management Plan (WBMP) which contains baseline data and targets for water security indicators to be incorporated in the next Five Year Plans.</p> <p>The National Irrigation Master Plan (NIMP) aims to increase the national level of paddy self-sufficiency from 50% to 75% at an estimated cost of USD 140 million.</p> <p>Priority-recommendations to enhance institutional capacity of government agencies were developed and submitted to the Government for consideration.</p> <p>Knowledge Products developed include "Water: Securing Bhutan's Future" and technical papers on the TA's experience with water policies and governance mechanisms. An online Water Resources Management Information System was developed to document the main project results.</p>
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Geographical Location

Summary of Environmental and Social Aspects

Environmental Aspects

Involuntary Resettlement

Indigenous Peoples

Stakeholder Communication, Participation, and Consultation

During Project Design	Consultation missions have been fielded and met with government agencies, NGOs, and developing partners to discuss their current and planned activities in the water resources sector that may be relevant to the planned technical assistance and to understand their views on the key focal areas of the TA.
During Project Implementation	<p>Considering the TA's primary focus on IWRM and the inherent need for cross-sectoral involvement, a Technical Advisory Committee (TAC) was formed to provide the platform to guide and advise the TA team and to endorse TA outputs. The guidance and feedback received from the TAC was very valuable in particular for selection of priority basin, developing the framework for the RBC, and the Bhutan Water Security Index System.</p> <p>The feedback received from national and regional stakeholder consultation workshops was also useful because they ensured that the project outputs related to the realities on the ground.</p>

Business Opportunities

Consulting Services	A team of experts was hired and mobilized on 10 September 2014. Inputs will comprise 50 person months (pm) from international and 30 pm from national specialists in the areas of institutional strengthening, capacity development, and communications; integrated water resources management; geographic information systems, remote sensing and database; climate change modeling; river basin modeling; hydraulic structures; irrigation planning; water law; social development; and economics.
Procurement	No major procurement under the TA is envisaged. If any, these will follow ADB's Procurement Guidelines (March 2013 as amended from time to time).

Responsible Staff

Responsible ADB Officer	Gore, Lance W.
Responsible ADB Department	South Asia Department
Responsible ADB Division	Environment, Natural Resources & Agriculture Division, SARD
Executing Agencies	<p><i>National Environment Commission</i> <i>Ugyen Tshewang, Secretary</i> <i>tugyenn@hotmail.com, secretary@nec.gov.bt</i> <i>Royal Government of Bhutan P.O.Box 466 Thimphu, Bhutan</i></p>

Timetable

Concept Clearance	28 Jun 2013
Fact Finding	-
MRM	-
Approval	28 Feb 2014
Last Review Mission	-
Last PDS Update	22 Aug 2016

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Milestones					
Approval	Signing Date	Effectivity Date	Closing		
			Original	Revised	Actual
28 Feb 2014	26 Mar 2014	26 Mar 2014	31 Dec 2015	30 Jun 2016	-

Financing Plan/TA Utilization						Cumulative Disbursements		
ADB	Cofinancing	Counterpart				Total	Date	Amount
		Gov	Beneficiaries	Project Sponsor	Others			
0.00	1,750,000.00	250,000.00	0.00	0.00	0.00	2,000,000.00	28 Feb 2014	1,624,676.59

Project Page

<https://www.adb.org/projects/46463-002/main>

Request for Information

<http://www.adb.org/forms/request-information-form?subject=46463-002>

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