ASIAN DEVELOPMENT BANK

Nepal: Power Transmission and Distribution Efficiency Enhancement Project

Project Name	Power Transmission and Distribution Efficiency Enhancement Project					
Project Number	50059-002					
Country	Nepal					
Project Status	Approved					
Project Type / Modality of Assistance	Loan Technical Assistance					
Source of Funding / Amount	Loan 3542-NEP: Power Transmission and Distribution Efficiency Enhancement	ent Project				
Amount	concessional ordinary capital resources lending / Asian Development Fund	US\$ 150.00 million				
	TA 9334-NEP: Strengthening the Capacity of Nepal's Energy Sector to Deliver Gender Equality and Social Inclusion Results					
	Japan Fund for Poverty Reduction	US\$ 2.00 million				
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth					
Drivers of Change	Governance and capacity development Knowledge solutions Partnerships Private sector development					
Sector / Subsector	Energy - Electricity transmission and distribution - Energy efficiency and conservatio	n				
Gender Equity and Mainstreaming	Effective gender mainstreaming					
Description	Electricity is a necessary requirement for accelerating the economic development of considered an important input to improve quality of life. Overall, the electricity dema the supply, leading to load curtailment and increased dependence on imports from Ir The peak suppressed demand in Nepal in FY2013_2014 has been around 1,200 mega installed capacity of 787 MW, hence resulting in a deficit of about 440 MW due to nor generation. Government has plans to generate additional 10,000 MW in the next 10 y the population in Nepal has access to electricity but the supply quality is unreliable a government has recognized the immediate need for reinforcement and upgrade of ou systems crucial to deliver the required energy to the customers even if the generation lines are in place. In this regard, the need for immediate distribution network enhance the government's action plan to address energy crisis and provide universal access to electricity for all by 2030. This will contribute in promoting sustainable energy for all Development Goal #7) and Nepal's Intended Nationally Determined Commitments for Framework Convention on Climate Change.	nd has far outgrown adia in recent times. awatt (MW) as against n-availability of years. About 63% of nd inadequate. The utdated distribution n and transmission ement is included in o reliable and efficient (Sustainable				
	ADB's Nepal country partnership strategy 2013_2017 supports the government's dev accelerated and inclusive economic growth. It seeks to address the infrastructure bol areas such as energy services and creating an enabling environment for increased be employment opportunities. ADB's support for the energy sector in Nepal has largely f and transmission with some distribution extension. This project will be ADB's first inv specifically targeting energy efficiency through distribution system enhancements m	tlenecks in the key usiness and ocused on generation estment in Nepal				

Project Rationale and Linkage to Country/Regional Strategy	The Asian Development Bank (ADB) will provide a loan to the Government of Nepal (the government) to meet the immediate needs of electricity distribution network in Kathmandu Valley and strengthening of associated transmission lines by the Nepal Electricity Authority (NEA). Major sections of the existing distribution network in the valley were constructed decades ago and despite significant increase in electricity demand and the number of consumers, minimal reinforcement of the distribution network has been carried out. The project will enhance the distribution capacity and improve reliability and quality of electric supply in the Kathmandu Valley by reducing distribution system overloads and technical and commercial losses, which currently is about 20%. The project will also support implementation of other system efficiency upgrades and energy efficiency measures such as advanced grid operations software, distribution system automation, and smart metering. System efficiency improvements and loss reductions will improve NEA's financial health, while customers will benefit from a reliable and improved quality of electricity supply and reduced dependence on diesel generators to meet their daily electricity needs. Operational upgrades will also facilitate integration of new generation capacity scheduled to come on-line during the next three to four years. The project can be replicated in other cities in the country.
Impact	Reliable and efficient electricity supply for all achieved by 2030 (National Energy Crisis Reduction and Electricity Development)

Project Outcome

Description of Outcome	Access to efficient, adequate, and high-quality power supply in the Kathmandu Valley improved		
Progress Toward Outcome			
Implementation Progress			
Description of Project Outputs	Transmission grid capacity to feed the primary distribution networks for the Kathmandu Valley strengthened Kathmandu Valley distribution network rehabilitated and capacity increased Operational and financial performance of NEA distribution centers enhanced NEA's capacity to operate and manage an advanced distribution system and intelligent network (smart grid) technology with GESI aspects in electricity access and end-user awareness programs developed		
Status of Implementation Progress (Outputs, Activities, and Issues)			

Geographical Location

Safeguard Categories

Environment	В
Involuntary Resettlement	А
Indigenous Peoples	С

Summary of Environmental and Social Aspects

Environmental Aspects	Initial environmental examinations have been prepared following ADB's Safeguard Policy Statement (SPS) (2009) and the government's environmental regulations.					
Involuntary Resettlement	Consultations have been undertaken and survey conducted. The resettlement plan will be publicly disclosed to interested stakeholders on ADB's websites.					
Indigenous Peoples No indigenous peoples' impact is expected as there is no indigenous peoples group in the project areas.						
Stakeholder Communication	Stakeholder Communication, Participation, and Consultation					
During Project Design	A series of consultations with affected persons and communities have been conducted by the project implementing agency for project preparation, and they will be continued.					

Business Opportunities

Consulting	Project Supervision Consultant will be engaged for this project.
Services	

Procurement All procurement of goods will be undertaken in accordance with ADB's Procurement Guidelines on ADBs Procurement Guidelines (2015, as amended from time to time). Before the start of any procurement, ADB and the government will review the public procurement laws of the central and state governments to ensure consistency with ADB's Procurement Guidelines (2015, as amended from time to time). The procurement scope under the project will be limited to procurement of goods for the substations, distribution system enhancement and smart meters. International Competitive Bidding (ICB) procedures would be adopted where the estimated tender value is above the threshold limit as defined in the procurement Plan, and National Competitive Bidding (NCB) procedures may be adopted for bids with an estimated value up to the threshold limit. NEA has sufficient capacity to design and implement these activities. NEA has also demonstrated good performance and track record with procurement of goods and works other similar activities and has sufficient knowledge of NCB procedures.

Responsible Staff

Responsible ADB Officer	Acharya, Jiwan S.
Responsible ADB Department	South Asia Department
Responsible ADB Division	Energy Division, SARD
Executing Agencies	Nepal Electricity Authority (NEA) P. O. Box 5352 Kathmandu Nepal

Timetable

Concept Clearance	22 Jul 2016
Fact Finding	16 Sep 2016 to 30 Sep 2016
MRM	11 May 2017
Approval	29 Jun 2017
Last Review Mission	-
Last PDS Update	10 Mar 2017

Loan 3542-NEP

	Financing Plan	Loan Utilization			
	Total (Amount in US\$ million)	Date	ADB	Others	Net Percentage
Project Cost	189.00	Cumulative Contract Awards			
ADB	150.00	-	0.00	0.00	%
Counterpart	39.00	Cumulative Disbursements			
Cofinancing	0.00	-	0.00	0.00	%

TA 9334-NEP

	Financing Plan/TA Utilization							Cumulative	e Disbursements
ADB	Cofinancing	Count	Counterpart			Total	Date	Amount	
		Gov	Beneficiaries	Project Sponsor		Others			
0.00	2,000,000.00	0.00	0.00		0.00	0.00	2,000,000.00	-	0.00

Project Page	https://www.adb.org/projects/50059-002/main
Request for Information	http://www.adb.org/forms/request-information-form?subject=50059-002
Date Generated	03 July 2017

ADB provides the information contained in this project data sheet (PDS) solely as a resource for its users without any form of assurance. Whilst ADB tries to provide high quality content, the information are provided "as is" without warranty of any kind, either express or implied, including without limitation warranties of merchantability, fitness for a particular purpose, and non-infringement. ADB specifically does not make any warranties or representations as to the accuracy or completeness of any such information.