Nepal: South Asia Subregional Economic Cooperation Power System Expansion Project

Project Name	South Asia Subregional Economic Cooperation Power System Expansion Project				
Project Number	44219-014				
Country	Nepal				
Project Status	Active				
Project Type / Modality of Assistance	Grant Loan Technical Assistance				
Source of Funding / Amount	Grant 0397-NEP: South Asia Subregional Economic Cooperation Power S Project	System Expansion			
	Government of Norway	US\$ 60.00 million			
	Grant 0398-NEP: South Asia Subregional Economic Cooperation Power S Project	System Expansion			
	Strategic Climate Fund	US\$ 11.20 million			
	Loan 3139-NEP: South Asia Subregional Economic Cooperation Power Sy Project	ystem Expansion			
	concessional ordinary capital resources lending / Asian Development Fund	US\$ 180.00 million			
	Loan: South Asia Subregional Economic Cooperation Power System Exp	ansion Project			
	European Investment Bank	US\$ 120.00 million			
	TA 8678-NEP: Supporting Rural Electrification Through Renewable Energy				
	Technical Assistance Special Fund	US\$ 500,000.00			
	Grant 0520-NEP: South Asia Subregional Economic Cooperation Power System Expansion Project				
	Strategic Climate Fund	US\$ 20.00 million			
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth Regional integration				
Drivers of Change	Governance and capacity development Partnerships				
Sector / Subsector	Energy - Electricity transmission and distribution - Renewable energy generation Renewable energy generation - solar - Renewable energy generation - wind	- small hydro -			
Gender Equity and Mainstreaming	Effective gender mainstreaming				
Description	ADB assisted the Government of Nepal in increasing capacity of national power gurenewable energy development. The South Asia Subregional Economic Cooperation Expansion Project is building more than 200 kilometers of power transmission line substations, along Kali Gandaki corridor in the Himalayas and Marsyangdi-Kathma also building or upgrading more than 1,000 kilometers of power distribution lines west regions of the country. To bring affordable renewable energy to remote area small hydroelectric power plants, as well as mini-grid based solar and solar/wind h	on Power System es, as well as andu route. The project is in the east, central, and is, the project is building			
Project Rationale and Linkage to Country/Regional Strategy	Nepal is facing chronic power shortages. Only 65% of the country's households had and per capita electricity consumption is 102 kilowatt-hours per year, one of the l installed capacity is 762 megawatts, well below the peak demand of 1,095 megaw consumers connected to the national grid experience scheduled power cuts of 12 during the dry season. In addition, the limited power transmission and distribution both for meeting domestic power demand and for potentially trading power with the season.	owest in the world. The watts. As a result, hours per day or more n network is a bottleneck			

Project Outcome	
Description of Outcome	Increased capacity of national grid and enhanced renewable energy development
Progress Toward Outcome	Procurement and implementation works are ongoing for capacity increment of national grid as well as renewable energy devleopment. Project outcome is likely to be achieved.
Implementation Progress	
Description of Project Outputs	 Power transmission capacity increased Power distribution network improved Mini-grid-based renewable energy systems in off-grid areas increased Capacity development support to NEA and AEPC provided.
Status of Implementation Progress (Outputs, Activities, and Issues)	Implementation has started for construction of 220 kV Dana-Kushma transmission line and associated substations at Dana and Kushma. Work has also started for construction of 220 kV Marsyangdi-Kathmandu transmission line and associated substations at Markichowk and Matatirtha. Procurement for 220 kV New Butwa-Bardaghat transmission line is in process. Work is also ongoing for reinforcement of grid substations at Gandak, Butwal, New Kawasoti, Bharatpur, Banepa, Baneshowr, Damauli, Lahan and Dhalkebar. Distribution network improvement projects is also under implementation. Construction of distribution substations and distribution lines in eastern and western region of Nepal are underway. Upgradation of distribution lines is also being done under the component. A mini- grid project at Simrutu khola is under construction. Also a solar wind hybrid system installation at Chisapani is in process. Other mini-grid and off grid renewable energy sub-projects are either in procurement process or being prepared. Project supervision consultant is onboard to support the NEA in project implementation and for capacity development. Consultant for preparation of Distribution and Rural Electrification Master Plan is in recruitment process. Consultants for project implementation support to AEPC are onboard.
Geographical Location	

Safeguard Categories

Environment	
Involuntary Resettlement	А
Indigenous Peoples	В

Summary of Environmental and Social Aspects

Environmental Aspects Initial environmental examinations and an environmental assessment and review framework for future unidentified off-grid subprojects have been prepared for both on- and off-grid components following ADB's Safeguard Policy Statement (2009) and the government's environmental regulatory framework. Potential impacts are mostly temporary and reversible, but some irreversible impacts on the natural habitat will occur because of the clearance of about 150 hectares of forested land. Available information on the habitat ranges and elevations of sensitive species indicates that critical habitat will not be directly impacted; potential impacts on natural habitat and potentially sensitive ecosystems have been identified and can be readily mitigated. Due diligence has determined that associated hydropower facilities comply with Nepal's regulatory requirements. Cumulative and induced impacts will have net positive benefits from easier access to energy and productive end uses of energy. Climate change risk screening was conducted and resulted to a medium climate change classification. Risks identified will be addressed through best practice engineering design. The initial environmental examinations and environmental management plans (EMPs) for all components include mitigation measures, monitoring, and budgetary provisions that are adequate to address the environmental impacts of the project. The EMPs' requirements are being incorporated into bidding documents. The NEA and AEPC supervise construction contracts and EMP implementation, including preparation of semiannual monitoring reports. The EMPs will be updated as necessary during implementation. Public consultation and information disclosure requirements have been met. The environmental assessment for the project are disclosed on ADB's website.

Involuntary Resettlement	The project will require land acquisition and involuntary resettlement, which will primarily be economic displacements with limited impact from physical displacement. The transmission and distribution components will have permanent and temporary impacts. Permanent impacts are anticipated from land acquisition for the construction of new transmission substations, distribution substations, transmission towers, and distribution poles. The temporary impacts will be from the loss of trees and crops along the right-of-way. About 715 households will be affected by land acquisition and loss of crops and trees. An initial assessment shows that the project areas do not have any endangered indigenous peoples groups. The magnitude of the impacts on indigenous peoples is not significant. Impacts are limited to loss of portions of land which will be compensated at replacement cost. Where these groups are considered vulnerable, additional resettlement assistance will be provided, in addition to the compensation, and consultations will be carried out to make them aware of the project and to obtain their endorsement for land acquisition. The off-grid component will not have any resettlement impacts for sample subprojects and no adverse impacts on indigenous peoples. The minimum private land requirements for the sample subprojects. The off-grid component allows for future subprojects, which have not been identified and are subject to due diligence. Therefore, a resettlement framework and an indigenous peoples planning framework have been prepared as required by the Safeguard Policy Statement and related national policies and legislation. AEPC will monitor the implementation of the resettlement and indigenous people plan, and will submit semiannual reports to ADB.
Indigenous Peoples	Based on surveys, two draft combined resettlement and indigenous peoples plans have been prepared for the on-grid components, in line with ADB's Safeguard Policy Statement and the government's legal framework.
Stakeholder Comm	unication, Participation, and Consultation
During Project Design	Stakeholder participation and consultations were conducted during project design.

During Project	Stakeholder consultations are being conducted during project implementation.
Implementation	

Business Opportunities

Consulting Services	The project will be executed over a period of six years from the date of loan effectiveness. Consultants (individuals and firm) to be financed by ADB funds and ADB administered funds will be recruited in accordance with ADB's Guidelines on the Use of Consultants (2013, as amended from time to time). For the procurement to be financed by ADF loan, or jointly by ADF and Norwegian grant, a blanket waiver of member country procurement eligibility restrictions will be applied. Under NEA component, out of the 2 consulting packages, one has been signed and the other one is in final stage of procurement. All consulting services contracts for AEPC has been awarded.
Procurement	The project will be executed over a period of six years from the date of loan effectiveness. All procurement to be financed by ADB fund and ADB administered funds will be carried out in accordance with ADB's Procurement Guidelines (2013, as amended from time to time). For the procurement to be financed by ADF loan, or jointly by ADF and Norwegian grant, a blanket waiver of member country procurement eligibility restrictions will be applied. Under NEA component, out of 10 procurement packages, 7 have been awarded and rest are under procurement process. Under AEPC component, 2 contracts are already awarded while other are at different stages.

Responsible Staff

Responsible ADB Officer	Shah, Grishma
Responsible ADB Department	South Asia Department
Responsible ADB Division	Nepal Resident Mission
Executing Agencies	Alternative Energy Promotion Center (AEPC) INFO@AEPC.GOV.NP Khumaltaar Heights Lalitpur Sub Metropolitan City Nepal Nepal Electricity Authority Sanepa, Lalitpur Nepal

Timetable

Concept Clearance	31 Jul 2013
Fact Finding	16 Mar 2014 to 21 Mar 2014

MRM	22 Apr 2014
Approval	04 Jul 2014
Last Review Mission	-
Last PDS Update	21 Mar 2017

Grant 0397-NEP

Milestones						
Approval	Signing Date	Effectivity Date	Closing			
			Original	Revised	Actual	
04 Jul 2014	14 Nov 2014	15 Jan 2015	30 Jun 2022	-	-	

Financing Plan		Grant Utilization			
	Total (Amount in US\$ million)	Date	ADB	Others	Net Percentage
Project Cost	60.00	Cumulative Contract Awards			
ADB	0.00	04 Jul 2014	0.00	15.34	70%
Counterpart	0.00	Cumulative Disbursements			
Cofinancing	60.00	04 Jul 2014	0.00	4.50	20%

Grant 0398-NEP

Milestones						
Approval	Signing Date	Effectivity Date	Closing			
			Original	Revised	Actual	
04 Jul 2014	11 Jul 2014	15 Jan 2015	30 Jun 2022	-	-	

	Financing Plan				ion
	Total (Amount in US\$ million)	Date	ADB	Others	Net Percentage
Project Cost	11.20	Cumulative Contract Awards			
ADB	0.00	04 Jul 2014	0.00	1.78	16%
Counterpart	0.00	Cumulative Disbursements			
Cofinancing	11.20	04 Jul 2014	0.00	1.76	16%

Grant 0520-NEP

Milestones								
Ammourt	Signing Data	ning Date Effectivity Date						
Approval	Signing Date	Ellectivity Date	Original	Revised	Actual			
29 Nov 2016	18 Jan 2017	19 May 2017	30 Jun 2022	-	-			

	Financing Plan	Grant Utilization			
	Total (Amount in US\$ million)	Date	ADB	Others	Net Percentage
Project Cost	20.00	Cumulative Contract Awards			
ADB	0.00	29 Nov 2016	0.00	0.00	0%
Counterpart	0.00	Cumulative Disbursements			
Cofinancing	20.00	29 Nov 2016	0.00	0.00	0%

Loan 3139-NEP

Approval	Signing Date	Effectivity Date	Closing			
Аррготаг	Signing Date	Ellectivity Date	Original	Revised	Actual	
04 Jul 2014	11 Jul 2014	15 Jan 2015	30 Jun 2022	-	-	

	Financing Plan	Loan Utilization			
	Total (Amount in US\$ million)	Date	ADB	Others	Net Percentage
Project Cost	368.80	Cumulative Contract Awards			
ADB	180.00	04 Jul 2014	0.00	105.47	65%
Counterpart	68.80	Cumulative Disbursements			
Cofinancing	120.00	04 Jul 2014	0.00	27.19	17%

TA 8678-NEP

Milestones							
Approval	Signing Date	Effectivity Date	Closing				
			Original	Revised	Actual		
04 Jul 2014	05 Aug 2014	05 Aug 2014	30 Jun 2017	31 Dec 2017	-		

	Financing Plan/TA Utilization							Cumulative Disbursements		
ADB	Cofinancing	Count	Counterpart			Total	Date	Amount		
		Gov	Beneficiaries	Project Sponsor		Others				
500,000.00	0.00	0.00	0.00		0.00	0.00	500,000.00	04 Jul 2014	242,426.17	

Project Page	https://www.adb.org/projects/44219-014/main
Request for Information	http://www.adb.org/forms/request-information-form?subject=44219-014
Date Generated	06 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.