Safeguard Categories

Tajikistan: Reconnection to the Central Asian Power System Project

Project Name	Reconnection to the Central Asian Power System Project		
Project Number	52122-001		
Country	Tajikistan		
Project Status	Proposed		
Project Type / Modality of Assistance	Grant		
Source of Funding / Amount	Grant: Regional Power Interconnection		
	concessional ordinary capital resources lending / Asian Development Fund		
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth Regional integration		
Drivers of Change	Governance and capacity development		
Sector / Subsector	Energy - Electricity transmission and distribution		
Gender Equity and Mainstreaming	No gender elements		
Description	In April 2018, Tajikistan started to export power to Uzbekistan on an islanded mode. However, in order to synchronize the systems and achieve power trade target, the relay protection system in Tajikistan has to be modernized and new interconnection points established. The proposed project will: (i) install modern relays, circuit breakers, instrumental transformers and ancillary equipment and systems at eight 220kV and two 500kV interconnection points; (ii) establish two new 500kV interconnections; and, (iii) provide capacity building to Barki Tojik staff in reliability of parallel operations. These solutions will result in the following outcome: regional energy resource utilization among CAPS countries improved.		
Project Rationale and Linkage to Country/Regional Strategy	The Central Asian republics are endowed with significant energy related natural resources, however, the distribution of these is highly skewed. The Kyrgyz Republic and Tajikistan have abundant hydro resources, while in contrast Kazakhstan, Turkmenistan and Uzbekistan are rich with fossil fuels. During the Soviet Union era these resources were managed at the regional level. Energy systems were designed to take into account the location of various energy sources and needs of entire region. The hydropower resources in Kyrgyz Republic and Tajikistan were operated primarily as an irrigation systems with power generation being secondary. Energy and water infrastructure, inherited by these countries, implicitly contemplated energy and water transfer across administrative boundaries that later have become national borders. However, the obsolete infrastructure systems in Tajikistan left from the former Soviet Union era that has neither been properly maintained nor replaced, especially during the civil war. This significantly deteriorated the reliability of the protection systems, which is one of the key elements for the parallel operation of the power systems. For the lack of sufficient infrastructure, the Tajikistan system has not been reconnected to the Central Asia Power System (CAPS) since its disconnection in 2009. In 2017, Tajikistan and Uzbekistan started working together to interconnect the electricity systems. In early 2018, the governments of both countries signed the Memorandum of Understanding according to which Tajikistan will start to exports summer surplus power to Uzbekistan. Initially, vertically integrated state power utility JSC Barki Tojik will start exporting 1.5 TWh on islanded mode in Uzbekistan (asynchronous operation) and after achieving full parallel operation, the export volume will increase to 5 TWh. This project will provide the infrastructure necessary for achieving full parallel operation of the two systems.		
Impact	Regional energy trade expanded		
Outcome	Regional energy efficiency among CAPS countries improved.		
Outputs	Tajikistan and Uzbekistan electricity grids synchronized Interconnection between Tajikistan and Uzbekistan expanded Capacity in Tajikistan for stable parallel operation improved		
Geographical Location	Nation-wide		

Environment			В		
Involuntary Resettlement			В		
Indigenous Peoples			С		
Summary of Environmental and	Social Aspects				
Environmental Aspects					
Involuntary Resettlement					
Indigenous Peoples					
Stakeholder Communication, Participation, and Consultation					
During Project Design					
During Project Implementation					
Responsible ADB Officer		Inoue, Yuki			
Responsible ADB Department		Central and West Asia Department			
Responsible ADB Division		Energy Division, CWRD			
Executing Agencies		Open Stock Holding Company "Barqi Tojik" 64 Ismolili Somini Avenue, Dushanbe Tajikistan, Postal Code 734026			
Timetable					
Concept Clearance		26 Jul 2018			
Fact Finding		05 Jun 2018 to 13 Jun 2018			
MRM		30 Aug 2018			
Approval		-			
Last Review Mission		-			
Last PDS Update		03 Aug 2018			
Project Page	https://www.adb.org/projects/52122-001/main				
			http://www.adb.org/forms/request-information-form?subject=52122-001		
Request for Information	http://www.adb.org/for	ms/request-information-form?subject=52122-0	001		

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