Regional: Regional Cooperation on Increasing Cross-Border Energy Trading within the Central Asian Power System

Project Name	Regional Cooperation on Increasing Cross-Border Energy Trading within the Central Asian Power System		
Project Number	52112-001		
Country	RegionalAfghanistanKazakhstanKyrgyz RepublicTajikistanUzbekistan		
Project Status	Active		
Project Type / Modality of Assistance	Technical Assistance		
Source of Funding / Amount	TA: Regional Cooperation on Increasing Cross Border Energy Trading within Central Asian Power System		
	Technical Assistance Special Fund	US\$ 1.50 million	
	High Level Technology Fund	US\$ 1.00 million	
	Regional Cooperation and Integration Fund	US\$ 1.00 million	
	Asian Clean Energy Fund under the Clean Energy Financing Partnership Facility	US\$ 1.00 million	
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth Regional integration		
Drivers of Change	Governance and capacity development Knowledge solutions Partnerships		
Sector / Subsector	Energy - Electricity transmission and distribution - Energy sector development and institutional reform		
Gender Equity and Mainstreaming	Some gender elements		
Description	The regional knowledge and support technical assistance (TA) cluster will support an increase in regional power trade among Afghanistan, Kazakhstan, the Kyrgyz Republic, Tajikistan, Uzbekistan, and Turkmenistan by (i) modernizing the coordinating dispatch center (CDC) Energiya, which coordinates power flow between the national electricity grids of the Central Asian power system (CAPS), to enhance its technical capacity; (ii) identifying the technical obstacles to power trade for CAPS, and proposing and coordinating solutions to overcome them for each country; and (iii) supporting the expansion of CAPS membership and seeking new markets. 2. In March 2018, countries at the Energy Sector Coordinating Committee meeting under the Central Asia Regional Economic Cooperation (CAREC) program agreed to request TA from the Asian Development Bank (ADB) to bridge the gap between energy supply and demand by facilitating cross-border trading. The TA is fully aligned with the CAREC 2030 strategy for (i) promoting energy trade and further integrating energy markets in the CAREC region and (ii) connecting Afghanistan with CAPS. The TA also directly supports the CAREC Energy Work Plan, 2016 2020, especially element 2 on promoting regional electricity trade and harmonization. However, it is not included in any of ADB's country operations business plans. The cluster will include three subprojects that will aim to support the increase in power trade within CAPS by (i) introducing an energy data management (EDM) system to CDC to enable a safe increase of energy membership, and exploring additional potential energy markets to increase potential for power trade. The TA cluster modality is appropriate as each subproject has individually identifiable outputs that contribute to a single outcome. Since the subproject has individually identifiable outputs that contribute to a single outcome. Since the subproject has individually identifiable outputs that contribute to a single outcome. Since the subproject has individually identifiable outp		

Project Rationale and Linkage to Country/Regional Strategy	Diminished power trade in the region. Power trade among Central Asian countries has been declining since the collapse of the Soviet Union in 1991. In 1990, 25,413 million kilowatt-hours (kWh) were traded among Kazakhstan, the Kyrgyz Republic, Tajikistan, Turkmenistan, and Uzbekistan. By 2010, the energy trade had decreased to 2,256 million kWh following the disconnection of Tajikistan from CAPS in 2009; it bottomed out in 2016 at 2,080 million kWh. 4. Technical constraints on capacity to trade power. During the time of the Soviet Union, the Central Asian energy flow between the electricity grids of southern Kazakhstan, the Kyrgyz Republic, Tajikistan, Turkmenistan, and Uzbekistan was regulated by the United Dispatch Administration of Central Asia (based in Tashkent, Uzbekistan), subordinated to the central dispatch Administration became nongovernment organization in 1993 and was renamed to CDC. The governance was assigned to the Central Asia United Power System Council (CAUPS), comprising the heads of the national power systems. The council was responsible for the administration and coordination of the parallel operations of CAPS. In 2004, Kazakhstan, Tajikistan, the Kyrgyz Republic, and Uzbekistan concluded an intergovernmental agreement on the coordination of electricity grids of Central Asia. CDC was given the status of international organization working under the guidance of the CAUPS. Turkmenistan withdrew from CAPS in 2003 and switched to parallel operations with Iran. The signatories provide the financing for CDC. 5. Unlike the national dispatch centers in the Kazakhstan, Kyrgyz Republic, and Tajikistan, no significant technological modernizations were made at CDC since it was established in the 1960s and conversion to a non-governmental organization. CDC relise on outdated technologies to perform its functions, including (i) coordination of the operations of power systems and energy entities within CAPS, (ii) determination of the conditions for the parallel operation of APS, (iii) coordination of operat			
Impact	CAREC 2030 Program Results Fram Countries' emissions reductions tan security in selected CAREC countrie	nework. rget achieved, regional cooperation framework accomplished and energy es enhanced		
Project Outcome				
Description of Outcome		Cross-border clean energy trade increased using high-level technology by CDC Energiya		
Progress Toward Outcome	2			
Implementation Progress				
Description of Project Out	puts	CDC Energiya modernized, capacitated, and engendered Solutions to the bottlenecks to regional power trade provided Membership in CAPS expanded		
Status of Implementation	Progress (Outputs, Activities, and Is	sues)		
Geographical Location		Regional		
Summary of Environme	ental and Social Aspects			
Environmental Aspects				
Involuntary Resettlement				
Indigenous Peoples				
Stakeholder Communic	ation, Participation, and Consul	tation		
During Project Design				
During Project Implement	ation			
Responsible ADB Officer		Chansavat, Bouadokpheng		
Responsible ADB Department		Central and West Asia Department		
Responsible ADB Division		Energy Division, CWRD		

Executing Agencies

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Timetable	
Concept Clearance	-
Fact Finding	-
MRM	-
Approval	26 Nov 2018
Last Review Mission	-
Last PDS Update	28 Nov 2018

Project Page	https://www.adb.org/projects/52112-001/main
Request for Information	http://www.adb.org/forms/request-information-form?subject=52112-001
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