## Regional: Regional Cooperation on Increasing Cross-Border Energy Trading within the Central Asian Power System - Modernization of Coordinating Dispatch Center Energiya (Subproject 1)

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Regional Cooperation on Increasing Cross-Border Energy Trading within the Central Asian Power System - Modernization of Coordinating Dispatch Center Energiya (Subproject 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Number</td>
<td>52112-002</td>
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<tr>
<td>Country</td>
<td>Kazakhstan, Kyrgyz Republic, Tajikistan, Uzbekistan</td>
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<tr>
<td>Project Status</td>
<td>Active</td>
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<tr>
<td>Project Type / Modality of Assistance</td>
<td>Technical Assistance</td>
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| Source of Funding / Amount | TA 9709-REG: Regional Cooperation on Increasing Cross-Border Energy Trading within Central Asian Power System - Modernization of Coordinating Dispatch Center Energiya (Subproject 1)  
Asian Clean Energy Fund under the Clean Energy Financing Partnership Facility | US$ 1.00 million |
|             | TA 9709-REG: Regional Cooperation on Increasing Cross-Border Energy Trading within the Central Asian Power System - Modernization of Coordinating Dispatch Center Energiya (Subproject 1)  
Technical Assistance Special Fund | US$ 500,000.00 |
|             | High Level Technology Fund | 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 - Energy sector development and institutional reform

### Gender Equity and Mainstreaming
- Some gender elements

### Description
The technical assistance (TA) subproject will have the following outcome: cross-border clean energy trade increased using high-level technology (HLT) by coordinating dispatch center (CDC) Energiya. The HLT will replace manual processes to allow CDC to operate in a real-time regime.

### 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. The drop in energy trade has caused widespread power outages in Tajikistan in winters and increased fossil fuel use by Kazakhstan, Turkmenistan, and Uzbekistan in summers. While hydropower exports from the Kyrgyz Republic have continued, the lack of hydropower from Tajikistan in summer has forced fossil fuel-rich countries to generate electricity using gas and oil instead of exporting those fuels. Meanwhile, Tajikistan has had to make substantial investments in generating capacity to produce electricity in winter, while being unable to export hydropower in summer. Tajikistan spills large amount of water annually which could have been used to generate about 5 billion 7 billion kWh of energy. Because of the limited electricity trading opportunities within CAPS, the Kyrgyz Republic had to find additional trading partners such as the People’s Republic of China and Pakistan.

### Impact
- CAREC 2030 Program Results Framework
- Countries’ emissions reductions target achieved, regional cooperation framework accomplished, and energy security in selected CAREC countries enhanced

### Project Outcome
**Description of Outcome**
Cross-border clean energy trade increased using high-level technology by CDC Energiya

### Progress Toward Outcome
**Implementation Progress**

### Description of Project Outputs
CDC Energiya modernized, capacitated, and engendered

### Status of Implementation Progress (Outputs, Activities, and Issues)

### Geographical Location
- Kazakhstan - Nation-wide
- Kyrgyz Republic - Nation-wide
- Tajikistan - Nation-wide
- Uzbekistan - Nation-wide

### 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
Bouadokpheng Chansavat
Responsible ADB Department
Central and West Asia Department
Responsible ADB Division
Energy Division, CWRD
Executing Agencies
Asian Development Bank
6 ADB Avenue,
Mandaluyong City 1550, Philippines

Timetable

<table>
<thead>
<tr>
<th>Concept Clearance</th>
<th>Fact Finding</th>
<th>MRM</th>
<th>Approval</th>
<th>Last Review Mission</th>
<th>Last PDS Update</th>
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<tbody>
<tr>
<td></td>
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<td></td>
<td>28 Jan 2019</td>
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<td>30 Jan 2019</td>
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TA 9709-REG

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<tr>
<th>Approval</th>
<th>Signing Date</th>
<th>Effectivity Date</th>
<th>Closing</th>
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<tr>
<td>28 Jan 2019</td>
<td>28 Jan 2019</td>
<td>31 Dec 2021</td>
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Financing Plan/TA Utilization

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<th>ADB</th>
<th>Cofinancing</th>
<th>Counterpart</th>
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<tr>
<td>2,500,000.00</td>
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Project Page
https://www.adb.org/projects/52112-002/main
Request for Information
http://www.adb.org/forms/request-information-form?subject=52112-002
Date Generated
17 August 2019

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