Armenia: Yerevan Gas-Fired Combined-Cycle Power Project

### Project Name
Yerevan Gas-Fired Combined-Cycle Power Project

### Project Number
51090-001

### Borrower/Company
ArmPower CJSC

### Country
Armenia

### Location
Armenia

### Approval Number
7554/3657

### Type of ADB Assistance / Amount
| 3657 | Ordinary capital resources | USD 68.40 million | Approved |

### Strategic Agendas
Inclusive economic growth

### Drivers of Change
Partnerships
Private sector development

### Sector / Subsector
Energy - Conventional energy generation

### Gender Equity and Mainstreaming
No gender elements

### Responsible ADB Department
Private Sector Operations Department

### Responsible ADB Division
Infrastructure Finance Division 1

### Responsible ADB Officer
Tang, Sonali

### Project Sponsor(s)
Renco Power Siemens Project Ventures

### Description
The proposed project will include a natural gas fired combined cycle power plant (CCPP). The 250 MW CCPP, utilizing natural gas as fuel, is proposed to be located on land acquired from the Yerevan Thermal Power Plant CJSC (YTPP), owned by the Ministry of Energy Infrastructure and Natural Resources. The project site is located 10 km from Yerevan, adjacent to the existing power plant operated by YTPP.

### Objectives and Scope
The project is expected to generate significant development impact for Armenia: easing a key energy infrastructure constraint; generating employment during construction and operation and creating conditions for greater private sector participation. The project also contributes to increasing the supply of clean energy to Armenia.

### Linkage to Country/Regional Strategy
The project is consistent with the Midterm Review on Strategy 2020, which includes a focus on private sector development and operations, and infrastructure development. ADBs support for the project is also in line with its country partnership strategy for Armenia, 2014-2018 that supports energy security by diversifying energy sources and promoting private investment in the energy sector.

### Safeguard Categories

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<th>Category</th>
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<tr>
<td>Environment</td>
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<td>Involuntary Resettlement</td>
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<td>Indigenous Peoples</td>
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### Summary of Environmental and Social Aspects

#### Environmental Aspects
The environmental and social impact assessment identifies the potential environmental and social impacts and risks of the project, and assesses the cumulative air quality impacts in the airshed. The project will minimize its contribution to background air quality through the use of gas turbines incorporating dry low nitrogen oxide burners. The project utilizes a closed-loop water-cooling system, which means that water extraction and thermal discharge impacts are minimized. Adequate mitigation measures will be incorporated in the environmental management plan of the environmental impact assessment, which the borrower is committed to fully implement, with submission of semiannual progress reports to comply with ADB requirements.

#### Involuntary Resettlement
No involuntary resettlement impacts are expected.

#### Indigenous Peoples
No indigenous communities live within the project area, and therefore no impacts on indigenous peoples are expected.

### Timetable for assistance design, processing and implementation

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<tr>
<td>Concept Clearance</td>
<td>14 Mar 2017</td>
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<td>Due Diligence</td>
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<td>Credit Committee Meeting</td>
<td>12 Mar 2018 to 12 Mar 2018</td>
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<td>Approval</td>
<td>16 Apr 2018</td>
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<td>Last PDS Update</td>
<td>12 Jun 2019</td>
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