



## Electricity Transmission Network Improvement Project (P146199)

EUROPE AND CENTRAL ASIA | Armenia | Energy & Extractives Global Practice |  
IBRD/IDA | Investment Project Financing | FY 2015 | Seq No: 2 | ARCHIVED on 08-Jan-2016 | ISR21993 |

Implementing Agencies: High Voltage Electric Networks, Yerevan Thermal Power Plant

### Key Dates

#### Key Project Dates

Bank Approval Date:30-Mar-2015

Effectiveness Date:21-Sep-2015

Planned Mid Term Review Date:15-Jun-2017

Actual Mid-Term Review Date:--

Original Closing Date:31-Dec-2019

Revised Closing Date:31-Dec-2019

### Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The proposed project development objectives (PDO) are to improve the reliability of the power transmission network and system management, and support the Borrower's efforts in ensuring adequate electricity supply

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

### Components

Name

Component 1: Strengthening of the power transmission network:(Cost \$60.04 M)

Component 2: Improvement of the power system management:(Cost \$3.13 M)

Component 3: Preparation of a new electricity generation project:(Cost \$1.69 M)

### Overall Ratings

| Name                                 | Previous Rating | Current Rating              |
|--------------------------------------|-----------------|-----------------------------|
| Progress towards achievement of PDO  | ● Satisfactory  | ● Moderately Unsatisfactory |
| Overall Implementation Progress (IP) | ● Satisfactory  | ● Satisfactory              |
| Overall Risk Rating                  | ● Substantial   | ● Substantial               |



## Implementation Status and Key Decisions

The project became effective on September 21, 2015. Implementation is overall on track. The procurement of the contractors for rehabilitation of Ashnak and Yerevan Thermal Power Centre's substation is underway. The other activities are also progressing without delay.



## Risks

### Systematic Operations Risk-rating Tool

| Risk Category  | Rating at Approval | Previous Rating | Current Rating |
|--|--------------------|-----------------|----------------|
| Political and Governance                                     | ● Moderate         | ● Moderate      | ● Moderate     |
| Macroeconomic  | ● Substantial      | ● Substantial   | ● Substantial  |
| Sector Strategies and Policies                               | ● Substantial      | ● Substantial   | ● Substantial  |
| Technical Design of Project or Program                       | ● Moderate         | ● Moderate      | ● Moderate     |
| Institutional Capacity for Implementation and Sustainability | ● Substantial      | ● Substantial   | ● Substantial  |
| Fiduciary  | ● Substantial      | ● Substantial   | ● Substantial  |
| Environment and Social                                       | ● Moderate         | ● Moderate      | ● Moderate     |
| Stakeholders   | ● Low              | ● Low           | ● Low          |
| Other  | --                 | --              | --             |
| Overall  | ● Substantial      | ● Substantial   | ● Substantial  |

## Results

### Project Development Objective Indicators

#### ► Equipment failures per year in target substations (Number, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 10.00       | --                | 11.00            | 2.00        |
| Date  | 30-Dec-2014 | --                | 29-Dec-2015      | 31-Dec-2019 |

#### ► Average interruption frequency per year in the project area (Number, Core)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.11        | 0.11              | 0.12             | 0.09        |
| Date  | 30-Dec-2013 | 15-Jun-2015       | 29-Dec-2015      | 31-Dec-2019 |



▲ Customers served in the project area (Number, Core Supplement)

|       | Baseline   | Actual (Previous) | Actual (Current) | End Target |
|-------|------------|-------------------|------------------|------------|
| Value | 1040000.00 | 1040000.00        | 1040000.00       | 1040000.00 |

▶ Down time of power system dispatch per year (Minutes, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 20.00       | 20.00             | 18.00            | 0.00        |
| Date  | 30-Dec-2014 | 15-Jun-2015       | 29-Dec-2015      | 31-Dec-2019 |

▶ Contract for construction of a new CCGT project competitively awarded to a qualified private developer (Text, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | No          | --                | No               | Yes         |
| Date  | 30-Dec-2014 | 15-Jun-2015       | 29-Dec-2015      | 31-Dec-2019 |

▶ Direct project beneficiaries (Number, Core)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 2984000.00  | 2984000.00        | 2984000.00       | 2993000.00  |
| Date  | 30-Dec-2014 | 15-Jun-2015       | 29-Dec-2015      | 31-Dec-2019 |

▲ Female beneficiaries (Percentage, Core Supplement)



|       | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|----------|-------------------|------------------|------------|
| Value | 48.60    | 48.60             | 48.60            | 48.60      |

## Overall Comments

## Intermediate Results Indicators

## ▶ Total number of substations rehabilitated under the project (Number, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00        | 0.00              | 0.00             | 2.00        |
| Date  | 30-Dec-2014 | 15-Jun-2015       | 29-Dec-2015      | 31-Dec-2019 |

## ▶ Preparation of a new CCGT project completed (Text, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target   |
|-------|-------------|-------------------|------------------|--|
| Value | n/a         | --                | No progress      | Tender documents for selection of a private developer issued |
| Date  | 30-Dec-2014 | 15-Jun-2015       | 29-Dec-2015      | 31-Oct-2019  |

## ▶ Back-up dispatch center constructed (Text, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current)     | End Target                                     |
|-------|-------------|-------------------|----------------------|--|
| Value | n/a         | --                | Too early to measure | Back-up dispatch center tested and operational |
| Date  | 30-Dec-2014 | --                | 29-Dec-2015          | 31-Oct-2019                                    |



▶ Percent of registered project related grievances responded to within stipulated service standards for response times  
(Percentage, Custom)

|       | Baseline    | Actual (Previous) | Actual (Current) | End Target  |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00        | 0.00              | 100.00           | 100.00      |
| Date  | 30-Dec-2014 | 15-Jun-2015       | 29-Dec-2015      | 31-Dec-2019 |

## Overall Comments

### Data on Financial Performance

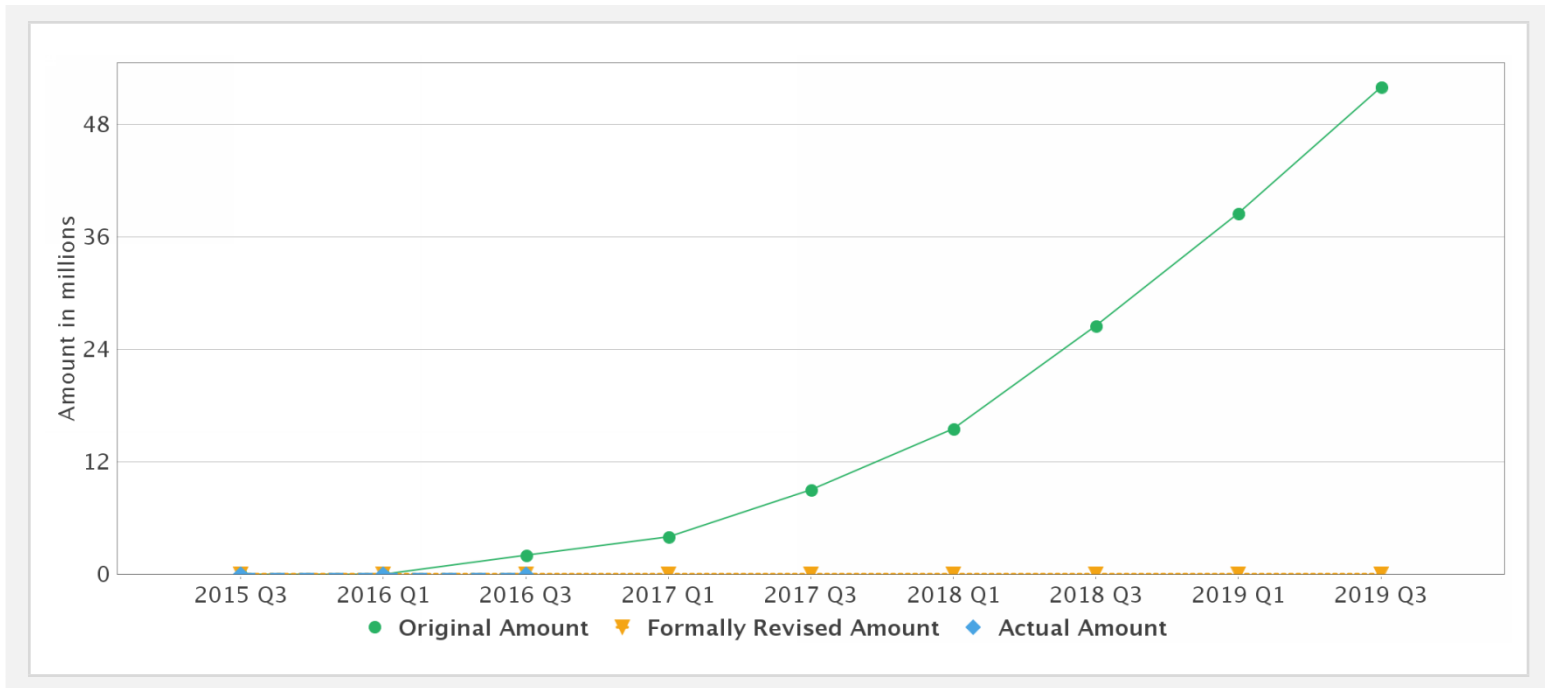
#### Disbursements (by loan)

| Project | Loan/Credit/TF | Status    | Currency | Original | Revised | Cancelled | Disbursed | Undisbursed | Disbursed |
|---------|----------------|-----------|----------|----------|---------|-----------|-----------|-------------|-----------|
| P146199 | IBRD-84950     | Effective | USD      | 52.00    | 52.00   | 0.00      | 0.13      | 51.87       | 0%        |

#### Key Dates (by loan)

| Project | Loan/Credit/TF | Status    | Approval Date | Signing Date | Effectiveness Date | Orig. Closing Date | Rev. Closing Date |
|---------|----------------|-----------|---------------|--------------|--------------------|--------------------|-------------------|
| P146199 | IBRD-84950     | Effective | 30-Mar-2015   | 08-Apr-2015  | 21-Sep-2015        | 31-Dec-2019        | 31-Dec-2019       |

#### Cumulative Disbursements



## Restructuring History

There has been no restructuring to date.

## Related Project(s)

There are no related projects.