

Geothermal Exploratory Drilling Project (P152039)

EUROPE AND CENTRAL ASIA | Armenia | Energy & Extractives Global Practice |
Recipient Executed Activities | Investment Project Financing | FY 2015 | Seq No: 2 | ARCHIVED on 02-May-2016 | ISR23403 |

Implementing Agencies: Renewable Resources and Energy Efficiency Fund

Key Dates

Key Project Dates

Bank Approval Date:08-Jun-2015
Planned Mid Term Review Date:20-Jan-2017
Original Closing Date:31-May-2019

Effectiveness Date:25-Aug-2015
Actual Mid-Term Review Date:-Revised Closing Date:31-May-2019

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The proposed project development objective is to confirm whether the geothermal resource at the project site is suitable for power generation and, if confirmed, to involve the private sector in the development of a geothermal power plant.

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

Components

Name

Public Disclosure Authorized

Phase I exploratory drilling program:(Cost \$5.37 M)

Phase II exploratory drilling program and transaction advisory:(Cost \$5.31 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	Satisfactory	Satisfactory
Overall Implementation Progress (IP)	Satisfactory	Satisfactory
Overall Risk Rating	Substantial	Substantial

Implementation Status and Key Decisions

The construction of the access road to the Karkar site and rig pads, required for equipment and facilities for drilling of slim well(s) is 95% completed. Works had to be stopped during the winter season as the site became inaccessible. The contractor will resume its work by mid-May when the site is accessible again. The drilling of slim well(s) is expected to commence in July 2016. The drilling contractor has already been contracted (March 18, 2016) and the Renewable Resources and Energy Efficiency Fund (R2E2 Fund) is currently finalizing the selection of the Technical Supervision and Support Consultant that will supervise the drilling operation on-site. The selection process for the well logging and testing consultant has also been initiated.

Risks

Systematic Operations Risk-rating Tool

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

Results

Project Development Objective Indicators

▶ Evidence provided to the Government for its decision on whether or not to construct a geothermal power plant at the Karkar geothermal site (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	N		N	Υ
Date	14-Jan-2015		22-Apr-2016	30-Apr-2018

▶ If geothermal resource is confirmed, power plant development is competitively awarded to qualified private developer(s) (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	N	N	N	Υ
Date	14-Jan-2015	15-Sep-2015	22-Apr-2016	30-May-2019

Overall Comments

Intermediate Results Indicators

One or two slim	exploratory wells of	drilled to a denth	of around 1 200	neters (Text	Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0		0	At least 1
Date	30-Mar-2015	15-Sep-2015	22-Apr-2016	30-Sep-2016

▶ One production-size well drilled to a depth of around 1,800 meters if the results of the drilling of slim well(s) warrantee such drilling (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	30-Mar-2015	15-Sep-2015	22-Apr-2016	30-Sep-2017

▶ Feasibility study for a potential power plant completed (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No		No	Yes
Date	30-Mar-2015	15-Sep-2015	22-Apr-2016	30-Apr-2018

▶ Tendering for private sector involvement in construction of a geothermal power plant completed if results from the feasibility study confirm technical and economic/financial viability of such a plant (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No		No	Yes
Date	30-Mar-2015	15-Sep-2015	22-Apr-2016	15-May-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		100.00	100.00
Date	30-Mar-2015		22-Apr-2016	30-May-2019

Overall Comments

Data on Financial Performance

Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Dis	sbursed
P152039	TF-A0544	Effective	USD	8.55	8.55	0.00	2.34	6.21		27%
Key Dates (by loan)										
Project	Loan/Credit/TF	Status	Approval Dat	te Signir	ng Date	Effectiveness [Date Orig.	Closing Date	Rev. Closing D	ate
P152039	TF-A0544	Effective	08-Jun-2015	16-Ju	n-2015	25-Aug-2015	31-Ma	y-2019	31-May-2019	

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.