



Naghlu Hydropower Rehabilitation Project (P132944)

SOUTH ASIA | Afghanistan | Energy & Extractives Global Practice |
Recipient Executed Activities | Investment Project Financing | FY 2016 | Seq No: 10 | ARCHIVED on 25-Jan-2021 | ISR44069 |

Implementing Agencies: Islamic Republic of Afghanistan, Da Afghanistan Breshna Sherkat, National Water Affairs Regulation Authority (NWARA)

Key Dates

Key Project Dates

Bank Approval Date: 14-Dec-2015

Effectiveness Date: 19-Jan-2016

Planned Mid Term Review Date: 13-Jun-2019

Actual Mid-Term Review Date: 13-Jun-2019

Original Closing Date: 30-Sep-2022

Revised Closing Date: 30-Sep-2022

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Project Development Objective (PDO) is to improve dam safety and to increase the supply of electricity at the Naghlu Hydropower Plant.

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

No

Components Table

Name

Component 1: Mechanical, Electrical, and Electromechanical Works:(Cost \$30.00 M)

Component 2: Dam Safety and Power Generation Capacity Improvement:(Cost \$33.00 M)

Component 3: Environmental and Social Sustainability, Project Management Support, and Future Project Preparation:(Cost \$20.00 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Implementation Progress (IP)	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Risk Rating	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate

Implementation Status and Key Decisions

The Naghlu Hydropower Rehabilitation Project (NHRP) became effective on January 24, 2016. Rehabilitation work at the hydropower plant is making steady progress. Rehabilitation of turbine 1 was completed in March 2018. The overhaul of turbine 3 was completed in October 2018, thus revitalizing 50 Mega Watt electric capacity. Major maintenance of turbine 4 was completed in November 2019. Procurement of contractor to overhaul Unit 2 is under evaluation and would be finalized in first quarter of 2021.

The dam safety component is lagging due to the inability of DABS, Afghanistan's power utility and the implementing entity, to mobilize contractors for this specialized task to work in Afghanistan's high-risk environment. A plan has been devised on how to accelerate these works and is starting to



yield results. Drainage galleries' old pumps were replaced with four new pumps which will help in stabilizing the dam by reducing uplift pressure on the dam body. Procurement of consultant to conduct dam safety assessment is at advanced stage and the contract will be signed in early 2021. The environmental and social assessment consultant is onboard and has prepared the inception report. The electrification of 16 villages in Sorobi District (8 more than originally planned), which is part of the benefit sharing program for the local communities living close to the plant, is complete. The NHRP is being restructured to include additional activities, which can be absorbed due to cost savings. These include activities from the DABS Capacity Building and Enhancement Project, which closed in July 2020.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	<input type="checkbox"/> Substantial	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Macroeconomic	<input type="checkbox"/> High	<input type="checkbox"/> Low	<input type="checkbox"/> Moderate
Sector Strategies and Policies	<input type="checkbox"/> Substantial	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Technical Design of Project or Program	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Institutional Capacity for Implementation and Sustainability	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Fiduciary	<input type="checkbox"/> Substantial	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Environment and Social	<input type="checkbox"/> High	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Stakeholders	<input type="checkbox"/> Substantial	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate
Other	--	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial
Overall	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate

Results

PDO Indicators by Objectives / Outcomes

To improve dam safety at the Naghlu Hydropower Plant				
► Dam Safety Procedures Developed and Maintained (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	31-Dec-2015	19-Jun-2020	04-Jan-2021	30-Sep-2022
Comments:	Procurement of consultants for Dam Safety Audit is at an advanced stage. Environmental and Social Impact Assessment (ESIA) related to dam safety activities are underway. The works related to dam safety will be scoped out based on findings of the assessments.			



To increase the supply of electricity at the Naghlu Hydropower Plant				
► Installed Capacity of Unit-1 Ready for Utilization (Megawatt, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	25.00	25.00	25.00
Date	31-Dec-2015	19-Jun-2020	04-Jan-2021	30-Sep-2022
Comments:	Unit 1 has been rehabilitated and is operational.			
► Total Number of Un-planned Power Outages due to Deficiency of NHPP (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	100.00	7.00	1.00	20.00
Date	31-Dec-2015	05-Jun-2020	01-Dec-2020	30-Sep-2022
► Number of Villages in the Immediate Vicinity of the Dam Provided with Access to Electricity by the Project (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	17.00	16.00	8.00
Date	31-Dec-2015	19-Jun-2020	04-Jan-2021	30-Sep-2022
Comments:	The number of villages that have been provided electricity has been changed based on updated quarterly report. Medium voltage system has been completed for 18 villages. Till date 15 transformers has been installed supplying power to the resident of 16 villages. DABS has not been able to install the remaining two distribution transformer and low voltage system due to security issues in two villages.			

Intermediate Results Indicators by Components

Component 1: Mechanical, Electrical, and Electromechanical Works				
► Overhaul of Unit-3 Completed (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	31-Dec-2015	19-Jun-2020	04-Jan-2021	30-Sep-2022

Component 2: Dam Safety and Power Generation Capacity Improvement				
► Dam Safety Audit in Place (Yes/No, Custom)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	31-Dec-2015	19-Jun-2020	04-Jan-2021	30-Sep-2022
Comments:	Procurement of consultants for Dam Safety Audit is at advanced stage.			
► Number of Staff Trained in Hydropower Operation and Maintenance under the Project (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	130.00
Date	31-Dec-2015	19-Jun-2020	04-Jan-2021	30-Sep-2022
Comments:	The consultant for providing operations and maintenance training will be selected by the end of January 2021.			

Component 3: Environmental and Social Sustainability, Project Management Support, and Future Project Preparation

► Number of Local People Receiving Vocational Training through the Project (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	60.00
Date	31-Dec-2015	19-Jun-2020	04-Jan-2021	30-Sep-2022
Comments:	The team has reconsidered how to extend the benefits of the project. After discussion with the National Horticulture and Livestock program (NHLP-P157997) and following consultation with villagers, it was agreed that instead of providing vocational training, NHLP program services such as kitchen gardening, poultry, and greenhouse development will be extended to the local people. This indicator will be revised after restructuring.			

Out of which the percentage of women trained (Percentage, Custom Supplement)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	20.00

► Feasibility Study of Options to Increase Power Generation at NHRP Completed (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	31-Dec-2015	19-Jun-2020	04-Jan-2021	30-Sep-2022
Comments:	Based on recommendation and advice of Project Technical Advisory Panel (PTAP) during their first mission and visit to the power plant, increasing the height of the dam and thus increasing power generation is not feasible and further study is not recommended. Therefore, this study has been abandoned. This indicator will be removed following restructuring.			



► Grievances reported related to delivery of project benefits that are addressed (Percent) (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	98.00	100.00	50.00
Date	31-Dec-2015	19-Jun-2020	04-Jan-2021	30-Sep-2022

Performance-Based Conditions

Data on Financial Performance

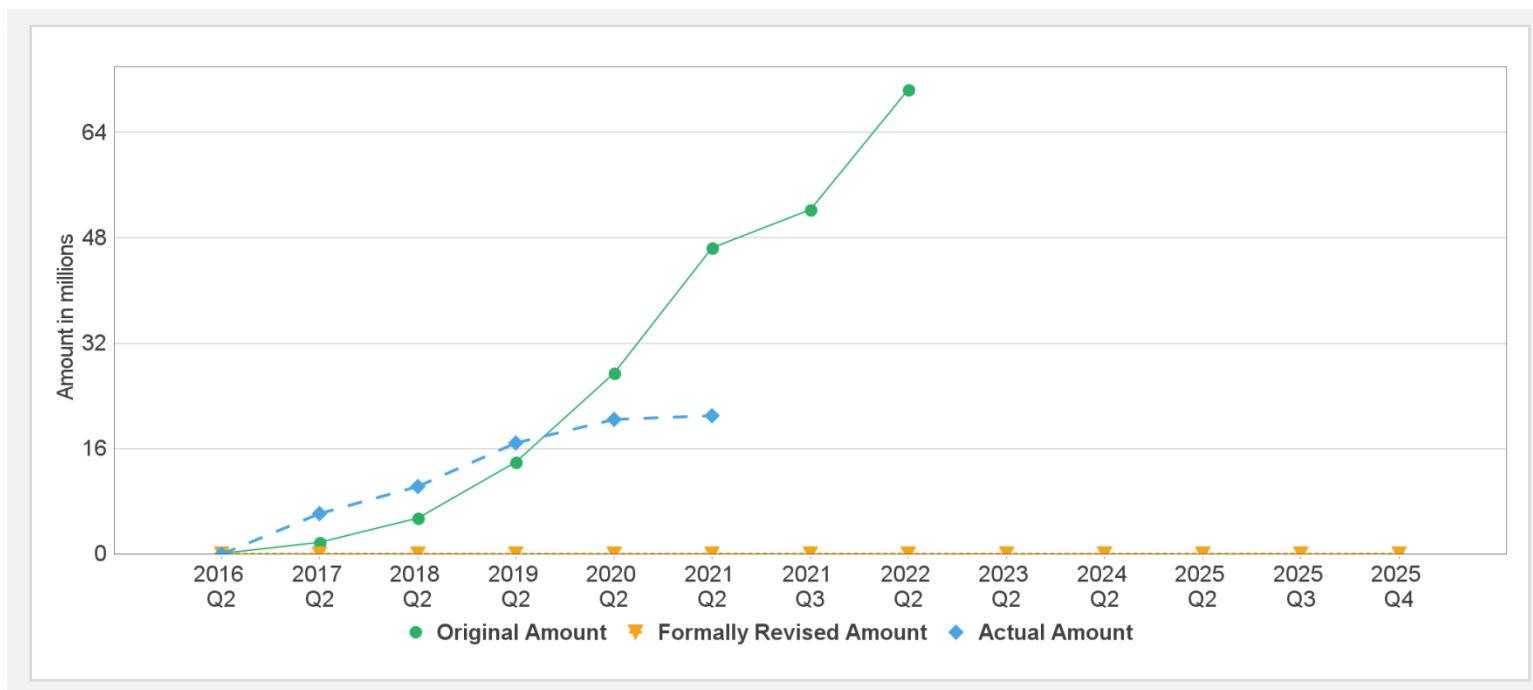
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P132944	TF-A1691	Effective	USD	83.00	83.00	0.00	21.01	61.99	25%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P132944	TF-A1691	Effective	14-Dec-2015	19-Jan-2016	19-Jan-2016	30-Sep-2022	30-Sep-2022

Cumulative Disbursements





PBC Disbursement

PBC ID	PBC Type	Description	Coc	PBC Amount	Achievement Status	Disbursed amount in Coc	Disbursement % for PBC
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Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.
