



LB- GREATER BEIRUT WATER SUPPLY (P103063)

MIDDLE EAST AND NORTH AFRICA | Lebanon | Water Global Practice |
IBRD/IDA | Investment Project Financing | FY 2011 | Seq No: 27 | ARCHIVED on 27-Jul-2023 | ISR56121 |

Implementing Agencies: Beirut and Mount Lebanon Water Establishment, Council for Development & Reconstruction, Lebanese Republic

Key Dates**Key Project Dates**

Bank Approval Date: 16-Dec-2010

Effectiveness Date: 04-Dec-2012

Planned Mid Term Review Date: 10-Nov-2014

Actual Mid-Term Review Date: 10-Feb-2015

Original Closing Date: 30-Jun-2016

Revised Closing Date: 30-Nov-2023

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The project development objective is to increase the provision of potable water to the residents in the project area within the Greater Beirut region, including those in the low-income neighborhoods of Southern Beirut, and to strengthen the capacity of the BeirutMount Lebanon Water Establishment in utility operations.

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

No

Components Table

Name

Component 1: Bulk Water Supply Infrastructure:(Cost \$294.00 M)

Component 2: Supply Reservoirs, Distribution Network and Metering.:(Cost \$61.00 M)

Component 3: Project Management, Utility Strengthening and National Studies:(Cost \$15.00 M)

Overall Ratings

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

Implementation Status and Key Decisions

Most of the civil works on the project have been completed under Components 1, 2 and 3 i.e. (i) the full 24 kilometers of tunnel excavation, which is the major civil work in the project; (ii) the rehabilitation of water distribution network of more than 180 km in Greater Beirut area, (iii) the construction of the water supply reservoirs (24 reservoirs with storage capacity between 500 m3 and 1,000 m3). The Beirut Mount Lebanon Water Establishment (BMLWE) has completed all the water networks and put them into service since June 2019. In addition, the SCADA operation room is operational at BMLWE; and the pilot zone of 24/7 continuous water supply, supported under the component strengthening the capacity of the BMLWE, was extended to additional 17 zones within the greater Beirut area. BMLWE is also installing smart water meters within the project area.

Based on the last supervision mission in May 2023, the procurement for the remaining tunnel works is still ongoing and the construction of the Wardanieh Water Treatment Plant (WTP) is advancing.



Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

Increase the provision of potable water to the residents in the project area				
▶ Volume (million cum/year) of additional potable water distributed in the project area (cumulative) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	45.00
Date	16-Dec-2010	17-Mar-2022	15-Jun-2023	30-Nov-2022
Comments:	The remaining bulk infrastructure works not completed yet are the tunnel and pipelines remaining works and the Water Treatment Plant. Once these works are completed this indicator will be achieved.			
▶ New piped household connections for poor households in Southern Beirut that are resulting from the Project's intervention (cumulative) (Number) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	5,125.00	5,125.00	20,000.00



Date	16-Dec-2010	17-Mar-2022	15-Jun-2023	30-Nov-2022
Comments:	Partially Achieved. The household connections were completed for 5,125 household connections. The original target for this indicator was wrongly calculated at design and needs to be amended through restructuring.			

Strengthen the capacity of the BMLWE in utility operations				
▶ Number of customers in Greater Beirut Mount Lebanon receiving 24/7 water supply (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	30,000.00	30,000.00	20,000.00
Date	16-Dec-2010	17-Mar-2022	15-Jun-2023	30-Nov-2022
Comments:	Achieved. The total number of customers that switched to 24/7 service in the zones under the Greater Beirut Water Supply Project (GBWSP) is estimated at 30,000 covering additional 10,000 people within the project area.			

Intermediate Results Indicators by Components

Component 1: Bulk Water Supply Infrastructure				
▶ Water treatment plant (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	16-Dec-2010	17-Oct-2022	15-Jun-2023	30-Nov-2022
Comments:	Construction ongoing. The WTP has been under construction since January 2019, current physical progress is 35% and is advancing quickly.			
▶ Transmission lines (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2.00
Date	03-Jun-2021	17-Oct-2022	15-Jun-2023	30-Nov-2022
Comments:	Contract awarded. Notice to commence issued on April 27. Mobilization and office setup is ongoing.			
▶ Tunnel (kms) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	24.00	24.00	24.00
Date	16-Dec-2010	17-Oct-2022	15-Jun-2023	30-Nov-2022
Comments:	3 Tunnels were fully excavated and excavation works fully completed for 24km. The ongoing procurement to complete the tunnel remaining works related to the tunnel lining and the syphon			
► Bulk reservoirs (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	3.00
Date	16-Dec-2010	17-Oct-2022	15-Jun-2023	30-Nov-2022
Comments:	this indicator will need to be dropped as it was part of the additional financing that lapsed. The BMLWE simulated scenarios to operate the tunnel. The sytem will be operational without these reservoirs.			

Component 2: Supply Reservoirs, Distribution Network and Metering

► Supply Reservoirs (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	24.00	24.00	16.00
Date	16-Dec-2010	17-Oct-2022	15-Jun-2023	30-Nov-2022
Comments:	Over-achieved. Works completed. The works are completed in the four zones for 16 reservoirs and the BMLWE constructed additional 8 reservoirs in the project area with 24 reservoirs completed. This indicator was overachieved.			
► Pipelines (kms) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	432.00	432.00	187.00
Date	16-Dec-2010	17-Oct-2022	15-Jun-2023	30-Nov-2022
Comments:	Over-achieved. Works completed. The works are completed with 432 km in the four zones. This indicator was overachieved. It is being co-financed by the GoL who completed the needed works in these four zones from their own financing allocations.			

Component 3: Project Management, Utility Strengthening and National Studies

► GIS System Installed (Number, Custom)



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	1.00
Date	16-Dec-2010	17-Oct-2022	15-Jun-2023	30-Nov-2022
Comments:	Achieved. Installation completed.			
► Customer Information System (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	1.00
Date	16-Dec-2010	17-Oct-2022	15-Jun-2023	30-Nov-2022
Comments:	Achieved.			
► Telemetry/Scada System installed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	1.00
Date	16-Dec-2010	17-Oct-2022	15-Jun-2023	30-Nov-2020
Comments:	Achieved. Installation completed.			
► TA for Design and operation of distribution system for 24/7 supply (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	1.00
Date	16-Dec-2010	17-Oct-2022	15-Jun-2023	30-Nov-2020
Comments:	Achieved. The Beirut Mount Lebanon Water Establishment (BMLWE) completed the pilot in 2016 and installed smart-meters in the area. The BMLWE did not change the water tariff. Households are still paying a flat fee. BMLWE monitors the volume of water used and have noticed a reduction in the use of water as a result of the installation of the smart-meters.			

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
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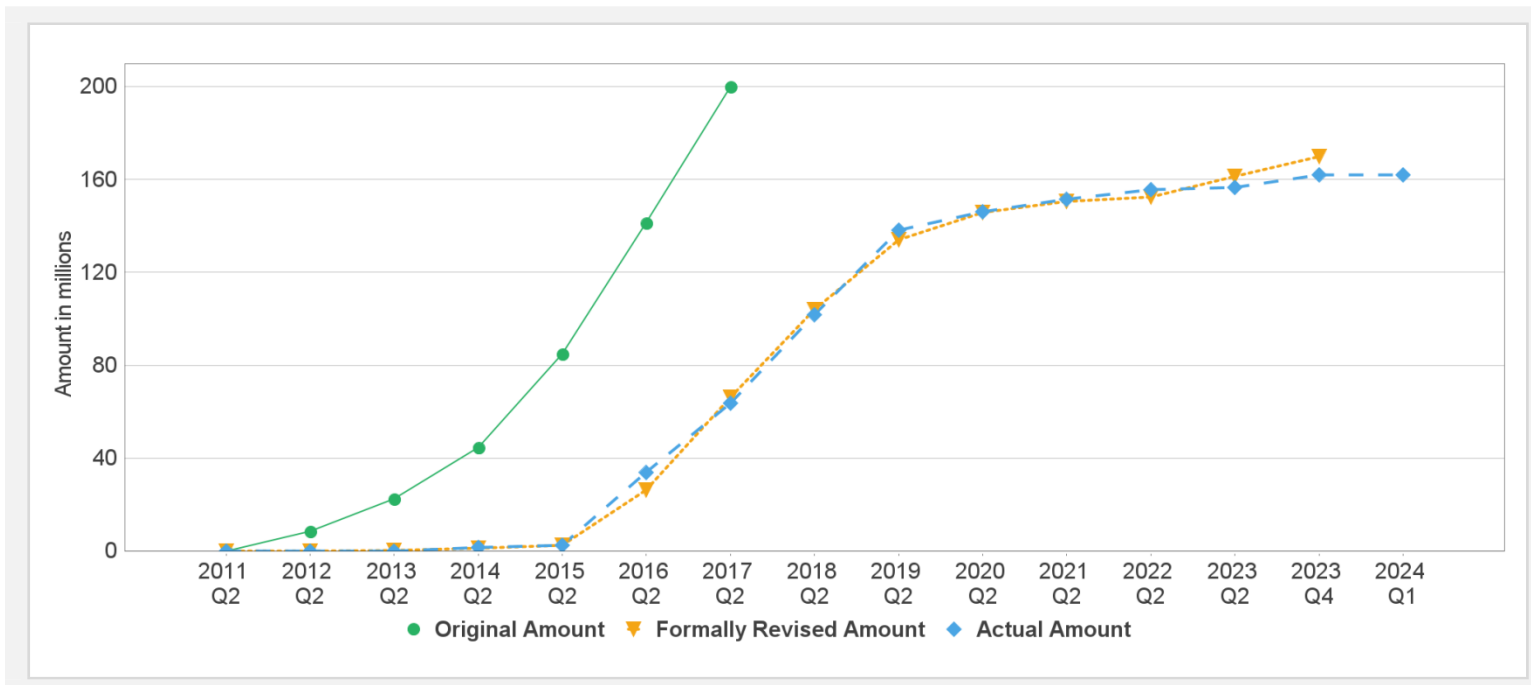


P103063	IBRD-79670	Effective	USD	200.00	200.00	0.00	162.59	37.41	<div style="width: 81%;"></div>	81%
P103063	IBRD-88860	Closed	USD	90.00	0.00	90.00	0.00	0.00	<div style="width: 0%;"></div>	0%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P103063	IBRD-79670	Effective	16-Dec-2010	08-Feb-2012	04-Dec-2012	30-Jun-2016	30-Nov-2023
P103063	IBRD-88860	Closed	15-Jun-2018	31-May-2019	--	30-Nov-2020	13-Feb-2020

Cumulative Disbursements



Restructuring History

Level 2 Approved on 15-Jun-2015 ,Level 2 Approved on 05-Nov-2020 ,Level 2 Approved on 29-Nov-2022 ,Level 2 Approved on 23-Dec-2022

Related Project(s)

P165711-Additional Financing for the Greater Beirut Water Supply Project