LB-Environmental Pollution Abatement Project (P143594)

MIDDLE EAST AND NORTH AFRICA | Lebanon | Environment, Natural Resources & the Blue Economy Global Practice | IBRD/IDA | Investment Project Financing | FY 2015 | Seq No: 15 | ARCHIVED on 29-Sep-2021 | ISR47993 |

Implementing Agencies: Ministry of Finance, Ministry of Environment, Central Bank

#### **Key Dates**

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Bank Approval Date: 01-Aug-2014 Effectiveness Date: 28-Jan-2016

Planned Mid Term Review Date: 30-Mar-2017 Actual Mid-Term Review Date: 11-Apr-2018

Original Closing Date: 31-Mar-2021 Revised Closing Date: 31-Dec-2021

#### **Project Development Objectives**

Project Development Objective (from Project Appraisal Document)

The development objectives of the project are to assist the Borrower in: (a) reducing industrial pollution in targeted Industrial Enterprises; and (b) strengthening the monitoring and enforcement capabilities of the MOE.

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

No

### Components To

Name

Α.

Public Disclosure Authorized

Technical Assistance (parallel financing):(Cost \$3.00 M)

B

Investment Sub-projects (IBRD):(Cost \$15.00 M)

### **Overall Ratings**

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

### Implementation Status and Key Decisions

The project became effective in January 2016. In spite of delays in the early stages of implementation, the project has been able to build a strong pipeline of sub-projects during the course of the 2018 and 2019 calendar years. To date ten sub-projects are signed and in various stages of implementation—reducing air and water pollution by up to 90 percent in the targeted enterprises and bringing those enterprises in compliance with national environmental laws. Total disbursements amount to US\$11.4 million (76% of loan amount).

Implementation progress slowed down in the past year as a result of the economic crisis in Lebanon and the lack of clarity on disbursement of project funds to commercial banks and to the beneficiaries. Since March 2021, the modalities has been clarified by the Central Bank and a commercial bank has signed a sub-loan agreement with one industry in August 2021. However, the disbursement of funds is awaiting official

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confirmation by the Government that the project funds will be released in "fresh \$" and that funding for the PMU will be secured for the duration of the extension. The Government's response should be received by September 30, 2021 in order for the project to be extended till December 2022 and for the project's activities to be initiated. Otherwise, the project will be closed on the current closing date of December 31, 2021.

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### **Risks**

# **Systematic Operations Risk-rating Tool**

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

### Results

# PDO Indicators by Objectives / Outcomes

Reducing industrial pollution in targeted Industrial Enterprises

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	Baseline	Actual (Previous)	Actual (Current)	End Target	
/alue	0.00	91.50	91.50	50.00	
Date	01-Aug-2014	29-Sep-2020	26-Jul-2021	31-Dec-2021	
Comments:	sub-projects implem de Sibline. The stac monitoring systems rate of the extraction	rojects addressing air pollution a nented at the following industrie of measurements for Cimenteric and for Zinaline and Ciment de n system. The total dust emissions red	s: Cimenterie Nationale, Zing Nationale and Sicomo dat Sibline and is an estimations before the implementat	naline, Sicomo and Cime a is collected from online n of the emissions and fl ion of the sub-projects w	
►BOD/COD reduction	achieved under the project in th	e targeted enterprises (Percent	tage, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target	
/alue	0.00	98.30	74.00	50.00	
Pate	01-Aug-2014	29-Sep-2020	26-Jul-2021	31-Dec-2021	
Comments:	The WWTPs of Kassatly Chtaura, Chateau Ksara, Sicomo and Libanlait's are currently operational, however, the results continue to be affected by the lockdown, specifically for Sicomo as they totally stown (January – March 2021) and it is not fully operational. Continuous monthly testing by enterprise and MOE monitoring is still taking place to assess the performance of the systems. BOD is tested two year as requested by the Litani River Authority (LRA) and those results are shared with MOE by the enterprises. Lastest values show a reduction in BOD from 8.8 tonns/d to 0.1 tonns/day with a resulting efficiency of 99%. The total load of COD before treatment is 14,1 tonns/d and the total COD reduction achieved is 10, 3 tonns/d equivalent to a treatment efficiency of 73%. Resulting in a cumulative efficiency of 74%				
►Industrial solid waste	e reduced under the project in the	e targeted enterprises (Percent	age, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target	
/alue	0.00	0.00	20.00	50.00	
Date	01-Aug-2014	29-Sep-2020	26-Jul-2021	31-Dec-2021	
	The rendering plant	of Wilco PM is the only LEPAP (2-3 days /week). Currently 60	sub-project addressing so	id waste and it is current	

# Strengthening the monitoring and enforcement capabilities of the MOE

▶ Increase in number of non-compliant operational enterprises addressed in letters from MOE to Ministry of Industry, Ministry of Interior, governors, municipalities, and prosecutors (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	62.00	184.00	209.00	50.00

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Date	01-Dec-2017	29-Sep-2020	28-Jul-2021	31-Dec-2021
Comments:	Baseline 2017: 62 le Total letters issued f 209.6%). Updated v	rom January 2018 till 24 March	n 2021: 192 letters (equivale	ent to an increase of
►Enterprises financed	I through the project aiming towa	rds the environmental compliar	nce Decree no. 8471-2012	(Number, Custom)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	8.00	8.00	10.00
Date	01-Aug-2014	29-Sep-2020	26-Jul-2021	31-Dec-2021

# **Intermediate Results Indicators by Components**

Component A – Technical Assistance								
►Guidelines and tools	for environmental monitoring/co	mpliance for specific industrial	sectors developed (Numbe	r, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	0.00	10.00	10.00	9.00				
Date	01-Aug-2014	29-Sep-2020	26-Jul-2021	31-Dec-2021				
Guidelines for the following sectors have been completed: Slaughterhouse, Meat processing, Dairy Industry, Cattle Farm, Cement Mixing, Asphalt Mixing, Cutting Stone, Cement Blocks								
▶ Decade trained on appear		sing/onforcement and autorope	oo (Number Custom)					
People trained on en	vironmental compliance/ monito	ring/ enforcement and awarene	ess (Number, Custom)					
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	0.00	126.00	126.00	100.00				
Date	01-Aug-2014	29-Sep-2020	26-Jul-2021	31-Dec-2021				
►Industrial database in	ncluding monitoring, permitting, a	and enforcement data operation	nal (Yes/No, Custom)					
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	No	No	Yes	Yes				
Date	01-Aug-2014	29-Sep-2020	26-Jul-2021	31-Dec-2021				
Comments:	Database has been	completed						

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Component B – Investments (Sub-projects)										
► Participating banks lending to enterprises (Number, Custom)										
	Baseline Actual (Previous) Actual (Current) End Target									
Value	0.00	4.00	6.00	4.00						
Date	01-Aug-2014	29-Sep-2020	26-Jul-2021	31-Dec-2021						
Comments:	Comments:  Audi, Fransabank, Byblos, Bank Med, BEMO									
►Enterprises that benefit from LEPAP environmental services (Number, Custom)										
Walter	Baseline	Actual (Previous)	Actual (Current)	End Target						
Value	0.00	65.00	70.00	40.00						
Date	01-Aug-2014	29-Sep-2020	26-Jul-2021	31-Dec-2021						
► Sub-loans issued to enterprises for pollution reduction (Amount(USD), Custom)										
Sub-loans issued to enterpris										
Sub-loans issued to enterpris	Baseline	Actual (Previous)	Actual (Current)	End Target						
Sub-loans issued to enterprise		Actual (Previous) 11.39	Actual (Current) 11.39	End Target 14.96						

### **Performance-Based Conditions**

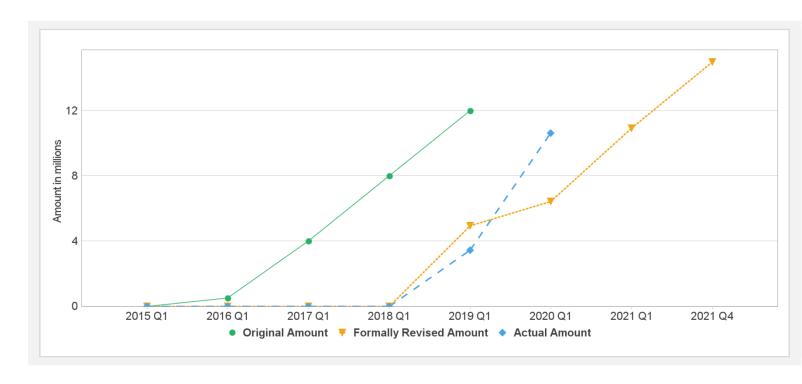
### **Data on Financial Performance**

# Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbu	rsed
P143594	IBRD-84100	Effective	USD	15.00	15.00	0.00	11.44	3.56		76%
Key Dates (	(by loan)									
Project	Loan/Credit/TF	Status	Approval Date	e Signir	ng Date	Effectiveness D	ate Orig.	Closing Date	Rev. Closing Date	
P143594	IBRD-84100	Effective	01-Aug-2014	24-00	ct-2014	28-Jan-2016	31-Ma	ar-2021	31-Dec-2021	

### **Cumulative Disbursements**

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### **PBC Disbursement**

PBC ID	DDC Type	Description	Coo	DDC Amount	Achievement	Disbursed amount in	Disbursement %
PBC ID	РБС Туре	Description	Coc	PBC Amount	Status	Coc	for PBC

### **Restructuring History**

Level 2 Approved on 29-Jun-2018 ,Level 2 Approved on 11-Jan-2021

# Related Project(s)

There are no related projects.

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