



LB: PCB Management in the Power Sector Project (P122540)

MIDDLE EAST AND NORTH AFRICA | Lebanon | Environment & Natural Resources Global Practice |
Global Environment Project | Investment Project Financing | FY 2015 | Seq No: 8 | ARCHIVED on 09-May-2019 | ISR34264 |

Implementing Agencies: Government of Lebanon, Ministry of Environmenta

Key Dates

Key Project Dates

Bank Approval Date: 21-Nov-2014

Effectiveness Date: 30-Mar-2015

Planned Mid Term Review Date: 10-Oct-2018

Actual Mid-Term Review Date: 26-Sep-2018

Original Closing Date: 30-Jun-2020

Revised Closing Date: 30-Jun-2020

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The objective of the Project is to dispose of high risk PCBs and improve the inventory management of transformers in the power sector in an environmentally sound manner.

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

No

Components

Name

Component 1: Inventory of PCB contaminated transformers:(Cost \$0.79 M)

Component 2: Disposal of high content PCB equipment and contaminated oil:(Cost \$1.10 M)

Component 3: Capacity building and project management:(Cost \$0.65 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 first 91 tons of PCB contaminated oil and equipment was repackaged and transported in line with the Basel Convention to Tredi in France, the EU-licensed facility for incineration of such wastes. All wastes that were received at the EU licensed facility were incinerated and destruction certificates received by the Project Management Unit (PMU). A results video and feature story has been prepared on the first export:

<http://www.worldbank.org/en/news/feature/2017/05/12/lebanon-starts-to-get-rid-of-persistent-organic-pollutants-that-endanger-environment-and-health>. The contract for the second batch of PCB waste for disposal is under negotiation.



The inventory and testing activities in the electricity sector under the project has been completed. This activity has identified PCB equipment nationwide and consist of: (i) full inventory of all out-of-service and in-service transformers; (ii) creation of a database on the pollution levels of PCBs, based on first field testing and subsequently laboratory testing, to confirm the levels of contamination; and (iii) preparation of a PCB contaminated equipment Action Plan. Field work to collect samples were completed in May 2018 with a total of 22,549 transformers surveyed (107% of target). The PCB contaminated equipment and waste management Action Plan has been complete and issued to EDL.

Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

EDL transformer recorded in the inventory				
▶EDL transformers recorded in the inventory (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2,215.00	22,549.00	21,000.00
Date	01-Jan-2015	12-Jun-2017	29-Jun-2018	01-Jan-2020
Comments:	107% Achieved. Inventory of PCB transformers was finalized in May 2018 as expected and a total of 22,549 assets have been surveyed (22,492 transformers, 27 capacitors and 30 drums / tanks), exceeding the end target of 21,000. The identified PCB waste has reached about 1,500 tons in total (including PCB contaminated transformers of 1,130). The PMU informed that there are still about 4,000 transformers that could not be surveyed under the project due to the project budget limitation.			
POPs and POPs waste destroyed, disposed or contained in environmentally sound manner				
▶POPs&pops waste destroyed,disposed or contained in environmentally sound manner (Metric ton, Custom)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	91.00	91.00	300.00
Date	01-Jan-2015	12-Jun-2017	30-Apr-2019	30-Apr-2020
Comments:	30% Achieved. For the first 91 tons which were repackaged, transported, exported and brought to the incineration facility in France, all disposal certificates have been received. The contract for the second disposal of PCB waste is under negotiation. The results video of the first repackaging and export is below. http://www.worldbank.org/en/news/feature/2017/05/12/lebanon-starts-to-get-rid-of-persistent-organic-pollutants-that-endanger-environment-and-health			
►Direct project beneficiaries (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	62.00	36,500.00	205,500.00
Date	26-Jun-2014	12-Jun-2017	30-Apr-2019	29-May-2020
Comments:	Achieved. The PMU has provided a table with details on locations of disposed PCB contaminated equipment and waste (91 tons) and the number of EDL workers and residents as the project beneficiaries. This number will be increased further when the second shipment of the PCB waste for disposal (about 226 tons) is completed. The end target was under estimated at appraisal and has been surpassed. The percentage for female beneficiaries is estimated at 50%.			
▲Female beneficiaries (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	31.00	50.00	50.00

Overall Comments

To date, a total of 22,549 transformers have been surveyed and recorded, 107% of the target of 21,000 transformers and 91 tons of POPs waste (PCB waste) have been destroyed, disposed of, or contained in an environmentally sound manner, 30% of the target of 300 tons and 317 (106%) is expected to be achieved by project end date.

Intermediate Results Indicators by Components

Component 1: Inventory of PCB contaminated transformers				
►Contract for Inventory signed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	1.00
Date	01-Jan-2015	30-Nov-2016	30-Nov-2016	01-Jan-2016
Comments:	Achieved. The contract for inventory of PCB transformers was signed in Oct. 2016 and has been completed as of June 2018.			



Component 2: Disposal of high content PCB equipment and contaminated oil				
▶Contract for First Shipment and Disposal of PCB signed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	1.00
Date	01-Jan-2015	29-Dec-2017	13-Sep-2016	29-Dec-2017
Comments:	Achieved. The contract for First Shipment and Disposal of PCB waste was signed in March 2016 and completed in 2017.			
Component 3: Capacity building and project management				
▶Client days of training provided (number) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	587.00	587.00	700.00
Date	01-Jan-2015	31-May-2018	30-Apr-2019	01-Jan-2020
Comments:	<p>According to the Core Sector Indicator, the definition of this indicator is "This indicator measures the number of client days of training provided i.e. the number of clients who completed training multiplied by the duration of training expressed in days". So the end target had been wrongly determined and entered before due to a possible misunderstanding of this indicator (for the number of days only). Based on PMU data on the number of days of each training and the number of participants provided recently, the amount of training days was a total of 33 days with a total of 391 participants (among which 164 are female). And this indicator is recalculated as 587 client days by May 31, 2018. The end target is revised as 700 (290 for female) with the PMU's best estimation. The final actual numbers will be provided in the ICR. This change does not warrant a project restructuring.</p> <p>Trainings and workshops have been provided/organized to the PMU, MOE, EDL, Concessions, Academic sectors, Government institutions, consultancy firms, technical officers and laboratories on PCB inventory and management, hazardous waste management in the light of the experience of the Lebanese and Arab countries, environmental safeguard activities related to disposal of PCB equipment and waste, which are very useful for technical and management capacity building.</p> <p>There was no major training activity during June 2018-April 2019. Therefore, the numbers remain the same as the previous ones. However, more trainings are expected during implementation of the second disposal of PCB waste, including training for EDL technicians, training for concessions technicians and training for MoE.</p>			
▲Client days of training provided - Female (number) (Number, Custom Breakdown)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	253.00	253.00	290.00
Date	01-Jan-2015	31-May-2018	30-Apr-2019	01-Jan-2020

Data on Financial Performance

Disbursements (by loan)

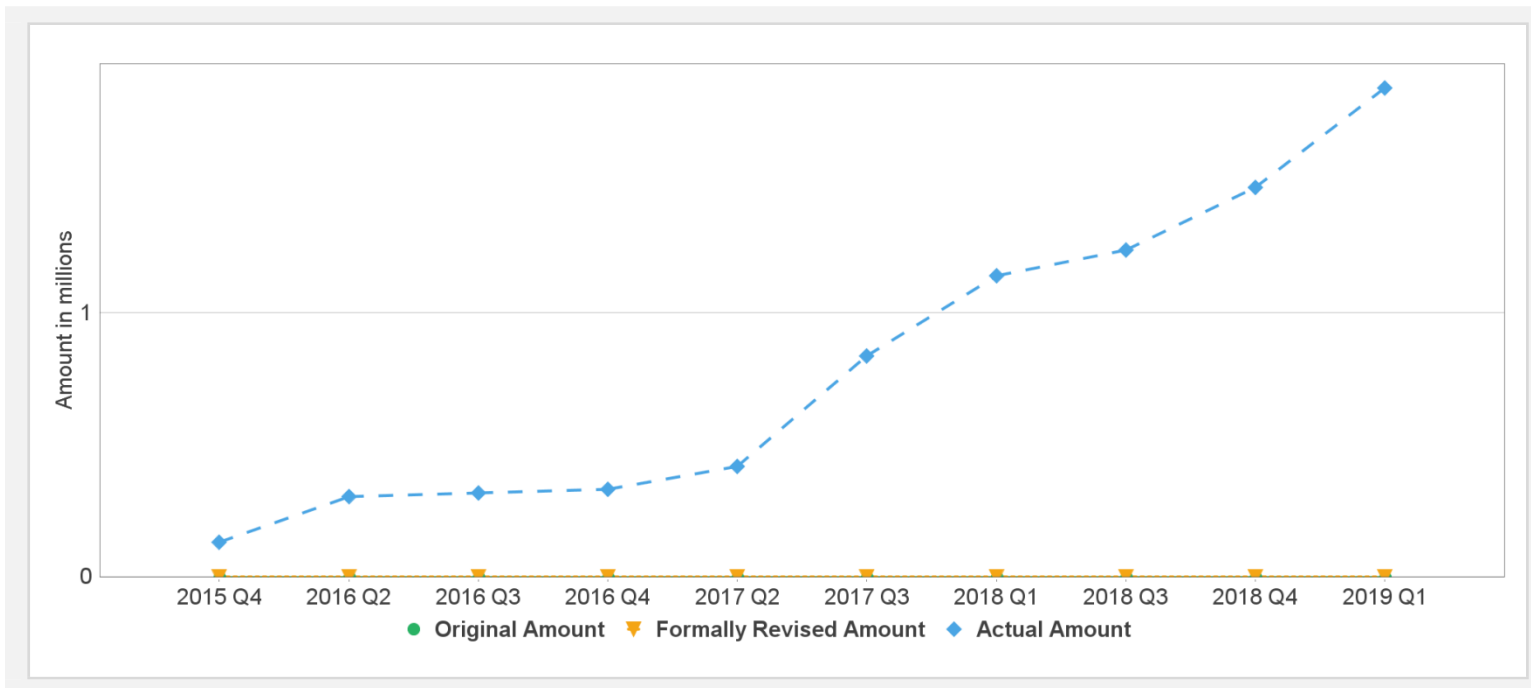
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
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P122540	TF-18030	Effective	USD	2.54	2.54	0.00	1.85	0.69	<div style="width: 73%; height: 15px; background-color: #4CAF50;"></div>	73%
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Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P122540	TF-18030	Effective	21-Nov-2014	16-Feb-2015	30-Mar-2015	30-Jun-2020	30-Jun-2020

Cumulative Disbursements**Restructuring History**

There has been no restructuring to date.

Related Project(s)

There are no related projects.