



## Jordan Ozone Depleting Substances HCFC Phase-Out Project (ODS3) (P127702)

MIDDLE EAST AND NORTH AFRICA | Jordan | Environment, Natural Resources & the Blue Economy Global Practice | Montreal Protocol | Investment Project Financing | FY 2013 | Seq No: 17 | ARCHIVED on 27-May-2021 | ISR46529 |

Implementing Agencies: Hashemite Kingdom of Jordan, Ministry of Environment

**Key Dates****Key Project Dates**

Bank Approval Date: 26-Apr-2013

Effectiveness Date: 19-May-2013

Planned Mid Term Review Date: 26-Feb-2016

Actual Mid-Term Review Date: 14-Feb-2016

Original Closing Date: 31-Dec-2022

Revised Closing Date: 31-Dec-2022

**Project Development Objectives**

Project Development Objective (from Project Appraisal Document)

The project development objective is to support Jordan in its overall efforts to meet its first Montreal Protocol HCFC phase-out obligations between 2013 and 2017, and to strengthen the capacity of responsible government entities to continue to effectively implement the Montreal Protocol.

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

Yes

Board Approved Revised Global Environmental Objective (If project is formally restructured)

The project development objective is to support Jordan in its overall efforts to meet its Montreal Protocol HCFC phase-out obligations, and to strengthen the capacity of responsible government entities to continue to effectively implement and comply with the Montreal Protocol.

**Components Table**

Name

Technical Assistance, Policy and Sector Plan Management:(Cost \$0.81 M)

Investment in HCFC Consumption Reductions:(Cost \$2.24 M)

Institutional Strengthening:(Cost \$0.86 M)

**Overall Ratings**

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Satisfactory
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**

Project management and implementation improved significantly over the past year, with the Secretary General of the MOE also serving as the head of the National Ozone Unit and providing leadership to the project. Staffing has strengthened with experienced technical officer being hired to assist with the processing of the sub-project agreements.



Key Decision: Based on the project progress the Implementation Progress rating remains at Moderately Satisfactory.

**Current Implementation Status.**

**Component 1: Consumption Reductions**

Under this component, the investments made for the residential AC manufacturers have been completed. The conversion of the foam manufacturing enterprises is well underway with the signature of five out of nine sub-grant agreements for large enterprises with the expectation that the process will be complete by March 2021. An audit of the remaining 58 medium to small scale manufacturers will provide an indication of how many enterprises are able to be part of the project even though all of them have been consulted. Those still participating will attend the various virtual sessions planned with international suppliers (December 15, 2020) and system houses (Saudi Arabia Study tour April 2021), with the intention to convert their operations after the training is conducted. The signing of the medium to small scale enterprises will commence from February 2021 to December 2021.

**Component 2: Technical Assistance (TA), Policy, and AC Sector Plan Management**

Under this component, the team has advanced technical capacity of local authorities, especially training of monitoring and enforcement officials (customs) and has delivered trainings for service technicians on alternative refrigerants in anticipation of the evolving technologies that the signed sub-grant agreements will bring. Further TA and training is planned (Table 2) which will need to be adapt to the COVID-19 pandemic restrictions and will be held virtually. The component has contributed to changing the import quota system in restricting the importation of HCFC equipment. As part of this component, a Technical officer was employed and continues to provide valuable assistance in the preparation of all sub-projects, calculation of sub-project funding allocations and day to day support to the seven large enterprises. The continued capacity building and policy assistance will continue which includes the NOU attending the 42nd Open ended Working Group (OWEG) from 17-13 July 2020 and the 32nd Meeting Of the Parties that will take place from 23-27 November 2020.

**Component 3: Institutional Strengthening**

The NOU and the Bank team have continued to work closely and have held progress meetings following the March 2020 Action Plan. The training of enterprises will continue over and above the training that have been held so far through the NOU in a series of workshops that were held .





## Risks

### Systematic Operations Risk-rating Tool

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

## Results

### PDO Indicators by Objectives / Outcomes

To support Jordan in its overall efforts to meet its first MP phaseout obligations				
▶ HCFC consumption within Maximum Allowable Limits (Tones/year, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	83.00	19.08	19.08	41.50
Date	15-Feb-2013	18-Nov-2020	18-Nov-2020	30-Dec-2022
Comments:	Unit of measure: ODP tons or tones of ozone depleting potential 19.08 ODP tons as of Nov 2020 is the preliminary reported HCFC consumption in Jordan.			
▶ Compliance with annual MP and MLF obligations on controlled substances and data reporting (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	50.00	50.00	100.00
Date	15-Feb-2013	18-Nov-2020	18-Nov-2020	30-Dec-2022



Comments:	This indicator measures issuance of licenses and annual quotas fully executed and Article 7 reports submitted by the Montreal Protocol Ozone Secretariat and country program updates submitted by the May deadline to the MLF Secretariat Unit. Annual target comprises 1) timely issuance of licenses of controlled substances; 2) timely issuance of quotas of controlled substances; 3) timely submission of Article 7 data to the Ozone Secretariat by September 30th and, 4) submission of country program data to the Ozone Secretariat by September 30th. Each component of the target counts for 25% of 100% compliance. For the 2019 data reporting, all 4 of these parts of the target were achieved.			
<b>► Avoided emission of tons of CO2 equivalent from transition to new technology in the AC and foam sectors (Tones/year, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	60,095.00	60,095.00	313,620.00
Date	15-Feb-2013	18-Nov-2020	18-Nov-2020	30-Dec-2022
Comments:	This indicator measures the level of emissions avoided using the equivalent amount of CO2 of HCFCs consumed in the AC and foam sectors at baseline, as well as EE improvement. Break down Indicator on AC Sector: This indicator measures avoided emission of tons of CO2 equivalent from transition to new technology in the AC sector: Level of emissions avoided using the equivalent amount of CO2 from 80% change of R-410A (compared to R-22) and conservative EE improvement to 2.8 EER. Break down Indicator on Foam Sector: This indicator measures avoided emission of tons of CO2 equivalent from transition to new technology in the foam sector: Level of emissions avoided using the equivalent amount of CO2 of HCFC-141b eliminated (including that contained in pre-blended polyol).			
<b>□ Avoided emission of tons of CO2 equivalent from transition to new technology in the AC sector (Tones/year, Custom Breakdown)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	60,095.00	60,095.00	60,095.00
Date	15-Feb-2013	18-Nov-2020	18-Nov-2020	29-Dec-2017
<b>□ Avoided emission of tons of CO2 equivalent from transition to new technology in the foam sector (Tones/year, Custom Breakdown)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	253,525.00
Date	15-Feb-2013	18-Nov-2020	18-Nov-2020	30-Dec-2022

### Intermediate Results Indicators by Components

Technical Assistance, Policy and AC Sector Plan Management				
<b>► Implementation of key policies and regulations for HCFC-141b phase-out (Text, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No HCFC-141b policy	No HCFC-141b policy	No HCFC-141b policy	Ban on import and use of HCFC-141b and HCFC-141b pre-blended polyol in foam manufacturing



Date	15-Feb-2013	18-Nov-2020	18-Nov-2020	03-Jan-2022
<b>► Implementation of key policies and regulations for HCFC-22 phase-out (Text, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	no HCFC-22 policy	Ban on use of HCFC-22 policy in manufacturing AC and ban on imports of HCFC-22 based AC units	Ban on use of HCFC-22 policy in manufacturing AC and ban on imports of HCFC-22 based AC units	Ban on use of HCFC-22 policy in manufacturing AC and ban on imports of HCFC-22 based AC units
Date	31-Jan-2013	18-Nov-2020	18-Nov-2020	29-Nov-2019
Comments:	Achieved on 31 December 2016.			
<b>► Satisfactory technical assistance activities delivered (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	10.00	10.00	14.00
Date	15-Feb-2013	18-Nov-2020	18-Nov-2020	30-Dec-2022
Comments:	Satisfactory technical assistance activities delivered to strengthen technical capacity of manufacturers to convert from HCFC use and Government officials to monitor and enforce HCFC controls. Two study tours organized for large foam manufacturers to visit foam manufacturers, system houses, and equipment suppliers in Egypt and Dubai.			
<b>► Compliance with MLF HCFC project reporting requirements (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	100.00
Date	26-Apr-2013	18-Nov-2020	18-Nov-2020	30-Dec-2022
Comments:	Target comprises: 1) annual consumption verification; and 2) preparation and submission to the MLF of implementation progress report and plan. Each component of the target counts for 50% of target. As (2) is only due twice during the project period, the target is not 100% annually. 2 reports (verification and implementation progress report) were submitted in 2019.			
<b>Investment in HCFC Consumption Reductions</b>				
<b>► Number of subproject agreement contracts signed with AC manufacturers (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2.00	2.00	2.00
Date	15-Feb-2013	18-Nov-2020	18-Nov-2020	30-Dec-2022
<b>► Cumulative HCFC-22 consumption phased out in the AC sector (Tones/year, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.43	1.43	1.43
Date	15-Feb-2013	18-Nov-2020	18-Nov-2020	28-Dec-2018
Comments:	Unit of Measure: ODP tons or tons of ozone depleting potential			



► Number of foam enterprises participating in subprojects (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	5.00	5.00	60.00
Date	15-Feb-2013	18-Nov-2020	18-Nov-2020	30-Dec-2022
Comments:	This was changed from 71 reflected in the last ISR to note the actual number of signed grant agreements as opposed to the 71 that were engaged and preparing sub-proposals for signature. The team felt this was a true reflection of the project progress as opposed to the potential for sub-projects.			
► Cumulative HCFC-141b consumption phased out in foam sector (Tones/year, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	29.78
Date	15-Feb-2013	18-Nov-2020	18-Nov-2020	30-Dec-2022
Comments:	Unit of measure: ODP tons or tons of ozone depleting potential			
Institutional Strengthening				
► Number of MP related meetings and workshops attended by NOU (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2.00	2.00	3.00
Date	15-Feb-2013	18-Nov-2020	18-Nov-2020	30-Dec-2022
Comments:	Frequency: Annual Attendance of NOU staff at MP Meetings and its Open-ended Working Group (twice annually) and UNEP Ozone Officer Network meetings (at least once annually) will ensure that NOU and MoE staff are current on decisions and policies that relate to MP compliance and that they are aware of the technical developments across MP sectors that impact industry, decision and policy making and enforcement.			

## Performance-Based Conditions

### Data on Financial Performance

#### Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P127702	TF-13968	Effective	USD	2.82	1.46	1.36	1.46	0.00	100%
P127702	TF-A5173	Effective	USD	2.45	2.45	0.00	0.70	1.75	29%

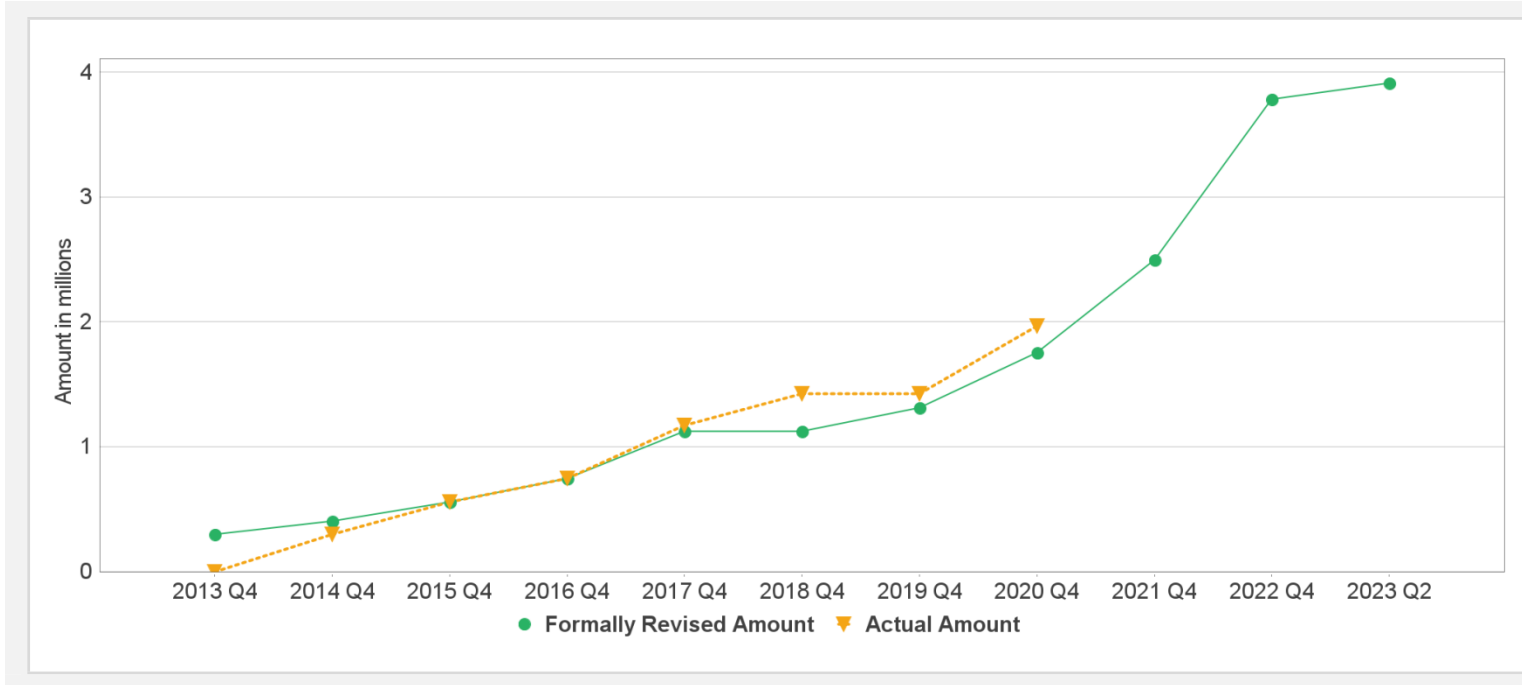
#### Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P127702	TF-13968	Effective	19-May-2013	19-May-2013	19-May-2013	30-Jun-2019	31-Dec-2022



P127702	TF-A5173	Effective	31-Dec-2017	31-Dec-2017	22-Mar-2018	31-Dec-2022	31-Dec-2022
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### Cumulative Disbursements



### Restructuring History

Level 2 Approved on 27-Jun-2016

### Related Project(s)

P160103-Jordan Ozone Depleting Substances HCFC Phase-Out (ODS3) Phase 2