

Ulaanbaatar Clean Air Project (P122320)

EAST ASIA AND PACIFIC | Mongolia | Energy & Extractives Global Practice | IBRD/IDA | Investment Project Financing | FY 2012 | Seq No: 18 | ARCHIVED on 29-Jan-2021 | ISR45213 |

Implementing Agencies: Mongolia, UBCAP Project Management Unit

Key Dates

Key Project Dates

Bank Approval Date: 03-Apr-2012 Effectiveness Date: 18-Dec-2012

Planned Mid Term Review Date: 19-Jan-2015 Actual Mid-Term Review Date: 19-Jan-2015

Original Closing Date: 30-Jun-2017 Revised Closing Date: 31-Dec-2021

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The development objective (PDO) is to enable consumers in ger areas to access heating appliances producing less particulate matter emissions and to further develop selected medium-term particulate matter abatement measures in Ulaanbaatar in coordination with development partners.

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

No

Components Table

Name

- A. Ger Area Particulate Matter Mitigation:(Cost \$21.70 M)
- B. Central Ulaanbaatar Particulate Matter Mitigation:(Cost \$2.30 M)
- C. Project Management and Monitoring and Evaluation:(Cost \$3.80 M)
- D. Electricity for heating in targeted ger areas:(Cost \$5.60 M)

Overall Ratings

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

Implementation Status and Key Decisions

The Additional Financing (AF), approved by the World Bank Board of Directors on September 30, 2019, was declared effective on April 27, 2020. The AF focuses on two activities: (i) support 5,000 more households (HHs) acquiring electric thermal storage (ETS) heaters under the newly added Component D; and (ii) scale up the residential energy efficiency improvement program under Component A. The AF also continues to support the government in strengthening clean heating regulations and their enforcement.

The procurement of the first batch of Electric Thermal Storage (ETS) heaters has been completed in October 2020. The COVID-19 pandemic caused delays and slow pace of the implementation, especially the installation of ETS and insulation of households. An incentive program to support the uptake of ETS units will be put in place.

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Risks

Systematic Operations Risk-rating Tool

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

Results

Value

PDO Indicators by Objectives / Outcomes

► Coverage of targeted households with eligible services (Percentage, Custom)						
	Baseline	Actual (Previous)	Actual (Current)	End Target		
Value	0.00	90.00	90.00	80.00		
Date	18-Dec-2012	31-Dec-2016	22-Jan-2021	31-Dec-2016		
Comments:		overage of targeted households der the original IDA credit.	s with eligible services is 80) percent, and is already		
► Additional number of households provided with access to clean heating appliances (Number, Custom)						

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0.00

0.00

5,000.00

0.00

Date	14-Jun-2019	16-Jun-2020	22-Jan-2021	31-Dec-2021	
Comments:	The additional numb indicator for the AF.	er of households provided with	access to clean heating ap	opliances is a new PDO	
▶ Percentage of Project beneficiaries reporting an improvement in quality of heating (Percentage, Custom)					
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	0.00	0.30	85.00	
Date	14-Jun-2019	16-Jun-2020	22-Jan-2021	31-Dec-2021	
Comments:		Project beneficiaries reporting a sure the improvement in comformation of the component D.			

Develop selected medium-term particulate matter abatement measures in Ulaanbaatar					
► Approval by relevant counterparts of principle recommendations and action plans developed by the Project for selected medium term abatement measures (no. of action plans approved) (Number, Custom)					
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	4.00	4.00	4.00	
Date	03-Apr-2012	31-Dec-2016	30-Jun-2018	31-Dec-2016	
Comments:	The target for this in	dicator has been achieved und	er the original IDA credit.		
► Inter-agency and donor (Number, Custom)	coordination framework for a	ir pollution abatement measure	s developed and functionin	g (cumulative no. of years)	
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	1.00	6.00	6.00	6.00	
Date	03-Apr-2012	30-Jun-2018	30-Jun-2018	30-Jun-2018	
Comments:	The target for this in	dicator has been achieved und	er the original IDA credit.		

Intermediate Results Indicators by Components

A. Ger Area Particulate Matter Mi	tigation			
► Laboratory tests supported by	UBCAP (Number, Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	761.00	761.00	155.00

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Date	03-Apr-2012	14-Jun-2019	14-Jun-2019	30-Jun-2019	
Comments:	The target for this intermediate indicator has been achieved under the original IDA credit.				
► Subsidy mechanism	disbursing (% of available funds) (Percentage, Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	96.00	96.00	100.00	
Date	18-Dec-2012	14-Jun-2019	14-Jun-2019	30-Jun-2019	
Comments:	The subsidy under the	he original IDA credit is 100 per	rcent disbursed.		
►Number of stoves de	eclared eligible for UBCAP suppo	ort (Number, Custom)			
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	22.00	22.00	5.00	
Date	03-Apr-2012	14-Jun-2019	14-Jun-2019	30-Jun-2019	
Comments:	The target for this in	termediate indicator has been a	achieved under the original	IDA credit.	
Value	Baseline 0.00	Actual (Previous) 77.00	Actual (Current)	End Target	
Value					
Date	03-Apr-2012	14-Jun-2019	14-Jun-2019	30-Jun-2019	
Comments:	The target for this in	termediate indicator has been a	achieved under the original	IDA credit.	
►Persons/ local produ	ucers trained in clean stove devel	opment, ceramic molding and	production (Number, Custo	m)	
▶Persons/ local produ	ucers trained in clean stove devel	opment, ceramic molding and p	production (Number, Custon Actual (Current)	,	
		•	,	m) End Target 50.00	
Value	Baseline	Actual (Previous)	Actual (Current)	End Target	
▶ Persons/ local produ Value Date Comments:	Baseline 0.00 15-May-2015 The target for this in	Actual (Previous) 28.00	Actual (Current) 28.00 31-Dec-2020	End Target 50.00 31-Dec-2021	
Value Date Comments:	Baseline 0.00 15-May-2015 The target for this in	Actual (Previous) 28.00 16-Jun-2020 termediate indicator for the origend target for the AF.	Actual (Current) 28.00 31-Dec-2020 ginal IDA credit has been ac	End Target 50.00 31-Dec-2021	
Value Date Comments:	Baseline 0.00 15-May-2015 The target for this in track to achieve the	Actual (Previous) 28.00 16-Jun-2020 termediate indicator for the origend target for the AF.	Actual (Current) 28.00 31-Dec-2020 ginal IDA credit has been ac	End Target 50.00 31-Dec-2021	

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	15-May-2015	14-Jun-2019	14-Jun-2019	30-Jun-2019	
Comments:	The target for this intermediate indicator has been achieved under the original IDA credit.				
►Number of public bui	ldings in ger area benefited from	energy efficiency and retrofitti	ng work (Number, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	12.00	12.00	12.00	
Date	15-May-2015	17-Jun-2019	17-Jun-2019	30-Jun-2019	
Comments:	The target for this int	termediate indicator has been a	achieved under the original	IDA credit.	
► Number of household	ds benefited from energy efficien	cy demonstration work and ret	rofitted their detached hous	ses (Number, Custom)	
	Baseline	Actual (Previous)	Actual (Current)	End Target	
Value	0.00	474.00	481.00	970.00	
Date	15-May-2015	16-Jun-2020	22-Jan-2021	31-Dec-2021	
Comments:		termediate indicator for the orig ck to achieve the end target for		thus has been achieved.	
►Number of HOBs rep	olaced by non-coal heating applia	ances (Number, Custom)			
►Number of HOBs rep	placed by non-coal heating applia	ances (Number, Custom) Actual (Previous)	Actual (Current)	End Target	
			Actual (Current)	End Target 1.00	
Value	Baseline	Actual (Previous)			
Value Date	Baseline 0.00 15-May-2015	Actual (Previous) 0.00	1.00 22-Jan-2021	1.00 31-Dec-2021	
Value Date Comments:	Baseline 0.00 15-May-2015 This is a new indicat	Actual (Previous) 0.00 16-Jun-2020 or under the AF to measure the	1.00 22-Jan-2021 e number of HOBs replace	1.00 31-Dec-2021	
Value Date Comments:	Baseline 0.00 15-May-2015 This is a new indicate	Actual (Previous) 0.00 16-Jun-2020 or under the AF to measure the	1.00 22-Jan-2021 e number of HOBs replace	1.00 31-Dec-2021 d with cleaner alternatives	
Value Date Comments: ► Number of complements	Baseline 0.00 15-May-2015 This is a new indicat	Actual (Previous) 0.00 16-Jun-2020 or under the AF to measure the	1.00 22-Jan-2021 e number of HOBs replace	1.00 31-Dec-2021	
Value Date Comments: ► Number of complements	Baseline 0.00 15-May-2015 This is a new indicate entary activities piloted at selected Baseline	Actual (Previous) 0.00 16-Jun-2020 or under the AF to measure the ed service center (Number, Cus Actual (Previous)	1.00 22-Jan-2021 e number of HOBs replace stom) Actual (Current)	1.00 31-Dec-2021 d with cleaner alternatives End Target	
Value Date Comments:	Baseline 0.00 15-May-2015 This is a new indicate entary activities piloted at selected Baseline 0.00 14-Jun-2019	Actual (Previous) 0.00 16-Jun-2020 or under the AF to measure the ed service center (Number, Cus Actual (Previous) 0.00	1.00 22-Jan-2021 e number of HOBs replace stom) Actual (Current) 0.00 22-Jan-2021	1.00 31-Dec-2021 d with cleaner alternatives End Target 3.00 31-Dec-2021	
Value Date Comments: ► Number of complement Value Date Comments:	Baseline 0.00 15-May-2015 This is a new indicate entary activities piloted at selected Baseline 0.00 14-Jun-2019 This is a new indicate	Actual (Previous) 0.00 16-Jun-2020 or under the AF to measure the ed service center (Number, Cus Actual (Previous) 0.00 16-Jun-2020 or under the AF to measure the	1.00 22-Jan-2021 e number of HOBs replace stom) Actual (Current) 0.00 22-Jan-2021 e number of complementar	1.00 31-Dec-2021 d with cleaner alternatives End Target 3.00 31-Dec-2021	
Value Date Comments: Number of complement Value Date Comments:	Baseline 0.00 15-May-2015 This is a new indicate entary activities piloted at selected Baseline 0.00 14-Jun-2019 This is a new indicate service center.	Actual (Previous) 0.00 16-Jun-2020 or under the AF to measure the ed service center (Number, Cus Actual (Previous) 0.00 16-Jun-2020 or under the AF to measure the	1.00 22-Jan-2021 e number of HOBs replace stom) Actual (Current) 0.00 22-Jan-2021 e number of complementar	1.00 31-Dec-2021 d with cleaner alternatives End Target 3.00 31-Dec-2021	

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Date	14-Jun-2019	16-Jun-2020	22-Jan-2021	31-Dec-2021
Comments:	This is a new indicator and air quality monitori		the number of female trained	d on clean heating options

B. Central Ulaanbaatar Particulate Matter Mitigation ► City greening preparatory study prepared (Text, Custom) **End Target** Baseline Actual (Previous) Actual (Current) Value Not started Final report submitted Final report submitted Final report submitted Date 31-Dec-2011 06-Oct-2016 06-Oct-2016 31-Dec-2015 The target for this intermediate indicator has been achieved under the original IDA credit. Comments: ► City greening pilot implemented (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Not started	Pilot implemented	Pilot implemented	Pilot implemented
Date	31-Dec-2011	11-Jan-2016	11-Jan-2016	31-Dec-2015
Comments:	The target for this in	termediate indicator has been a	schieved under the original I	DA credit.

▶ Power plant emissions control feasibility study prepared (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Not started	Final report submitted	Final report submitted	Final report submitted
Date	31-Dec-2011	03-Dec-2015	03-Dec-2015	31-Dec-2015
Comments:	The target for this int	termediate indicator has been ac	hieved under the original ID	A credit.

► Housing policy study prepared (Text, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Not started	final report submitted	final report submitted	Final report submitted
Date	31-Dec-2011	03-Dec-2015	03-Dec-2015	31-Dec-2015
Comments:	The target for this interme	ediate indicator has been ach	ieved under the original ID	A credit.

► District heating preparatory study prepared (Text, Custom)

Baseline	Actual (Previous)	Actual (Current)	Fnd Target

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Value	Not started	Final report submitted	Final report submitted	final report submit				
Date	31-Dec-2011	03-Dec-2015	03-Dec-2015	31-Dec-2015				
C. Project Management	, Monitoring and Evaluation							
► Monitoring and analy	rsis equipment supplied (cumula	tive number of bid packages) (Nu	ımber, Custom)					
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	0.00	9.00	9.00	3.00				
Date	31-Dec-2011	14-Jun-2019	14-Jun-2019	30-Jun-2019				
Comments:	The target for this in	termediate indicator has been ac	hieved under the original	IDA credit.				
	Baseline	Actual (Previous)	Actual (Current)	End Target				
► Effective project man	agement and reporting establish	ned (No. of project progress repor	rts per year) (Number, Cu	stom)				
Value	0.00	2.00	2.00	2.00				
Date	31-Dec-2011	14-Jun-2019	14-Jun-2019	30-Jun-2019				
Comments: The target for this intermediate indicator has been achieved under the original IDA credit.								
▶ Dereans trained in air	r quality manitoring, analysis any	d management (cumulative numb	or) (Number Cuetom)					
Preisons trained in all								
	Baseline	Actual (Previous)	Actual (Current)	End Target				
	0.00	50.00	50.00	4 = 00				
Value	0.00	56.00	56.00	15.00				
Value Date	31-Dec-2011	14-Jun-2019	14-Jun-2019	30-Jun-2019				
	31-Dec-2011		14-Jun-2019	30-Jun-2019				
Date Comments:	31-Dec-2011 The target for this in	14-Jun-2019 termediate indicator has been ac	14-Jun-2019 hieved under the original	30-Jun-2019 IDA credit.				
Date Comments:	31-Dec-2011 The target for this in	14-Jun-2019	14-Jun-2019 hieved under the original	30-Jun-2019 IDA credit.				
Date Comments:	31-Dec-2011 The target for this in	14-Jun-2019 termediate indicator has been ac	14-Jun-2019 hieved under the original	30-Jun-2019 IDA credit.				
Date Comments:	31-Dec-2011 The target for this in coordination activities prepaed by	14-Jun-2019 termediate indicator has been ac by the municipality (No. of reports	14-Jun-2019 hieved under the original annually) (Number, Custo	30-Jun-2019 IDA credit. pm)				
Date Comments: • Quarterly reports on e	31-Dec-2011 The target for this in coordination activities prepaed by Baseline	14-Jun-2019 termediate indicator has been ac by the municipality (No. of reports Actual (Previous)	14-Jun-2019 hieved under the original annually) (Number, Custo Actual (Current)	30-Jun-2019 IDA credit. pm) End Target				

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Actual (Previous)

Actual (Current)

End Target

► Consultants for supporting coordination hired (cumulative number) (Number, Custom)

Baseline

Value	0.00	0.00 2.00		2.00				
Date	03-Apr-2012	14-Jun-2019	14-Jun-2019	31-Dec-2016				
Comments:	The target for this in	termediate indicator has been a	achieved under the original	IDA credit.				
•	an for collecting air quality progra al plans) (Number, Custom)	m information across donors ar	nd agencies, satisfactory to	the PMU, is preparedby th				
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	0.00	3.00	3.00	1.00				
Date	31-Dec-2011	14-Jun-2019	14-Jun-2019	30-Jun-2019				
Comments:	The target for this in	The target for this intermediate indicator has been achieved under the original IDA credit.						
	ations targets (e.g., meetings with	ntage, Custom)		·				
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	0.00	100.00	100.00	100.00				
		04.0	31-Dec-2016	31-Dec-2016				
Date	31-Dec-2011	31-Dec-2016	31-Dec-2010	31-Dec-2010				

D. Electricity for Heating in Targeted Ger Area

► Additional capacity of clean heating appliances provided to targeted households under Component D (Megawatt, Custom)

Comments:	This is a new intermediate	e indicator of the AF.		
Date	14-Jun-2019	16-Jun-2020	22-Jan-2021	31-Dec-2021
Value	0.00	0.00	0.00	25.00
	Baseline	Actual (Previous)	Actual (Current)	End Target

▶ Estimated GHG emission reduction under Component D (Tones/year, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	150.00	22,615.00
Date	14-Jun-2019	16-Jun-2020	22-Jan-2021	31-Dec-2021
Comments:	This is a new intermediate	e indicator of the AF.		

Performance-Based Conditions

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Data on Financial Performance

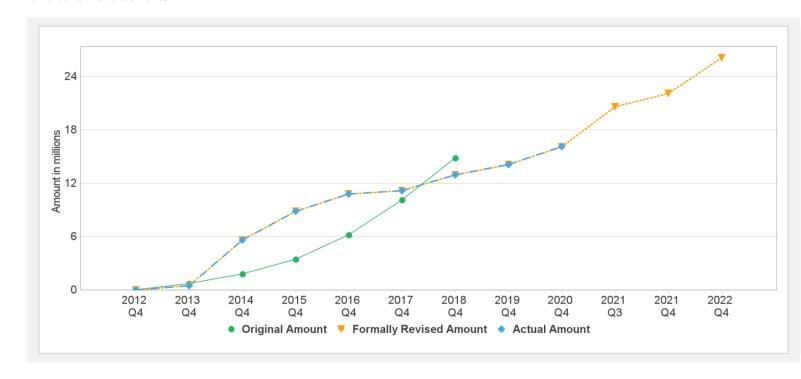
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	%	Disbursed
P122320	IDA-50390	Closed	USD	15.00	14.91	0.09	14.13	0.00		100%
P122320	IDA-64930	Effective	USD	12.00	12.00	0.00	2.00	10.40		16%

Key Dates (by Ioan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P122320	IDA-50390	Closed	03-Apr-2012	04-Apr-2012	18-Dec-2012	30-Jun-2017	31-Dec-2019
P122320	IDA-64930	Effective	30-Sep-2019	13-Dec-2019	27-Apr-2020	31-Dec-2021	31-Dec-2021

Cumulative Disbursements



PBC Disbursement

PBC ID	DDC Typo	Description	Coo	DDC Amount	Achievement	Disbursed amount in	Disbursement %
FBC ID	гво туре	Description	Coc	PBC Amount	Status	Coc	for PBC

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Restructuring History

Level 1 Approved on 10-Nov-2014, Level 2 Approved on 14-Jun-2017, Level 2 Approved on 15-Jun-2018, Level 2 Approved on 26-Jun-2019

Related Project(s)

P167421-Additional Financing to Ulaanbaatar Clean Air Project

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