



Ulaanbaatar Clean Air Project (P122320)

EAST ASIA AND PACIFIC | Mongolia | Energy & Extractives Global Practice |
IBRD/IDA | Investment Project Financing | FY 2012 | Seq No: 11 | ARCHIVED on 20-Dec-2017 | ISR29291 |

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:30-Jun-2018

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

Name

A. Ger Area Particulate Matter Mitigation:(Cost \$16.10 M)

B. Central Ulaanbaatar Particulate Matter Mitigation:(Cost \$2.30 M)

C. Public Awareness Raising, Program Coordination and Project Management:(Cost \$3.00 M)

Overall Ratings

| Name | Previous Rating | Current Rating |
|--------------------------------------|-----------------|----------------|
| Progress towards achievement of PDO | ● Satisfactory | ● Satisfactory |
| Overall Implementation Progress (IP) | ● Satisfactory | ● Satisfactory |
| Overall Risk Rating | ● Moderate | ● Moderate |

Implementation Status and Key Decisions



Summary of Progress: The project continues to make progress towards achieving the PDO through a range of measures to reduce air pollution, facilitate coordination on air pollution abatement, and protect vulnerable groups from high levels of air pollution. The recent restructuring of the project has reallocated the remaining funding from the project, including those from the savings from the clean stove program, to the following activities: (i) Provision of HEPA filters to an additional 119 kindergartens and hospitals; (ii) Support to local stove and boiler manufacturers for the design and production of clean stoves and boilers and pilot distribution to targeted groups; (iii) Support for energy efficiency measures for detached ger houses; (iv) Support for energy efficiency measures and/or non-coal solutions in government buildings; (v) Enhanced public awareness program; (vi) Extended project support for the PMU (the restructuring has also included a one-year extension of the closing date of the project to June 30, 2018).

Sustainability: Despite the documented achievements of the Clean Stove Program in lowering average ambient air pollution levels in Ulaanbaatar (UB) during winter months during 2013-2015, the government stopped supporting the clean stove program at the end of 2015. Air pollution from ger neighborhoods remains particularly acute, accounting for an estimated three-quarters of PM_{2.5} in UB in the winter. A multi-faceted effort supported by the municipal and national government and international donors remains urgently needed to identify and support effective air pollution control options together with measures to protect vulnerable groups (children, the elderly) from high air pollution levels.





Risks

Systematic Operations Risk-rating Tool

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

Results

Project Development Objective Indicators

► 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 | 19-Jan-2017 | 19-Jan-2017 | 31-Dec-2016 |

► 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 | 19-Jan-2017 | 19-Jan-2017 | 31-Dec-2015 |

► Inter-agency and donor coordination framework for air pollution abatement measures developed and functioning (cumulative no. of years) (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 1.00 | 5.00 | 5.00 | 6.00 |
| Date | 03-Apr-2012 | 19-Jan-2017 | 19-Jan-2017 | 30-Jun-2018 |

Overall Comments

Intermediate Results Indicators

► Laboratory tests supported by UBCAP (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 572.00 | 643.00 | 155.00 |
| Date | 03-Apr-2012 | 19-Jan-2017 | 14-Jul-2017 | 31-Dec-2016 |

► Number of stove models proposed for participation (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 61.00 | 77.00 | 10.00 |
| Date | 03-Apr-2012 | 19-Jan-2017 | 14-Jul-2017 | 31-Dec-2016 |



► Number of stoves declared eligible for UBCAP support (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 15.00 | 22.00 | 5.00 |
| Date | 03-Apr-2012 | 19-Jan-2017 | 14-Jul-2017 | 31-Dec-2016 |

► Subsidy mechanism disbursing (% of available funds) (Percentage, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 100.00 | 100.00 | 100.00 |
| Date | 18-Dec-2012 | 19-Jan-2017 | 19-Jan-2017 | 31-Dec-2016 |

► City greening preparatory 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 | 06-Oct-2016 | 06-Oct-2016 | 31-Dec-2015 |

► 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 |



► 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 |

► 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 |

► District heating preparatory 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 |

► Monitoring and analysis equipment supplied (cumulative number of bid packages) (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 5.00 | 5.00 | 3.00 |
| Date | 31-Dec-2011 | 19-Jan-2017 | 19-Jan-2017 | 31-Dec-2016 |



► Persons trained in air quality monitoring, analysis and management (cumulative number) (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 34.00 | 34.00 | 15.00 |
| Date | 31-Dec-2011 | 19-Jan-2017 | 19-Jan-2017 | 31-Dec-2016 |

► Effective project management and reporting established (No. of project progress reports per year) (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 14.00 | 14.00 | 2.00 |
| Date | 31-Dec-2011 | 19-Jan-2017 | 19-Jan-2017 | 31-Dec-2016 |

► Monthly reports on coordination activities prepared by the municipality (No. of reports annually) (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 25.00 | 26.00 | 4.00 |
| Date | 31-Dec-2011 | 19-Jan-2017 | 14-Jul-2017 | 31-Dec-2016 |

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

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 2.00 | 4.00 | 2.00 |
| Date | 03-Apr-2012 | 19-Jan-2017 | 10-Nov-2017 | 31-Dec-2016 |

Comments

Additional 2 contracts of consulting services were done and under implementation. 1. Detailed design for pilot project mini DH plant. 2. Heat loss measurement and energy auditor on EE packages /household level EE measures and kindergartens.



► Communications plan for collecting air quality program information across donors and agencies, satisfactory to the PMU, is prepared by the municipality (No. annual plans) (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 2.00 | 3.00 | 1.00 |
| Date | 31-Dec-2011 | 19-Jan-2017 | 14-Jul-2017 | 31-Dec-2016 |

► Share of communications targets (e.g., meetings with agencies and donors, information collected) in approved communications plan achieved by the municipality (% share of target) (Percentage, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | 100.00 | 100.00 | 100.00 |
| Date | 31-Dec-2011 | 19-Jan-2017 | 19-Jan-2017 | 31-Dec-2016 |

► Number of kindergartens that receive high-efficiency particulate (HEPA) filters (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | -- | 500.00 | 950.00 |
| Date | 15-May-2015 | -- | 10-Nov-2017 | 29-Jun-2018 |

► Persons/ local producers trained in clean stove development, ceramic molding and production (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | -- | 28.00 | 28.00 |
| Date | 15-May-2015 | -- | 10-Nov-2017 | 30-Jun-2018 |



► Number of households benefited from energy efficiency demonstration work and retrofitted their detached houses (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | -- | 175.00 | 200.00 |
| Date | 15-May-2015 | -- | 10-Nov-2017 | 30-Jun-2018 |

► Number of HOBs replaced by non-coal heating appliances at government buildings (Number, Custom)

| | Baseline | Actual (Previous) | Actual (Current) | End Target |
|-------|-------------|-------------------|------------------|-------------|
| Value | 0.00 | -- | 0.00 | 6.00 |
| Date | 15-May-2015 | -- | 06-Nov-2017 | 30-Jun-2018 |

Comments

The feasibility study undertaken for the replacement of HOBs found that in order to make non-coal heating options feasible, it is necessary to first undertake energy efficiency measures in the respective government buildings. Therefore, the pilot was converted to supporting energy efficiency measures for government buildings which had already replaced their HOBs to non-coal heating appliances. Although the project is therefore not expected to directly replace HOBs with non-coal heating appliances, this indicator will likely be met through UB's own funds.

Overall Comments

Data on Financial Performance

Disbursements (by loan)

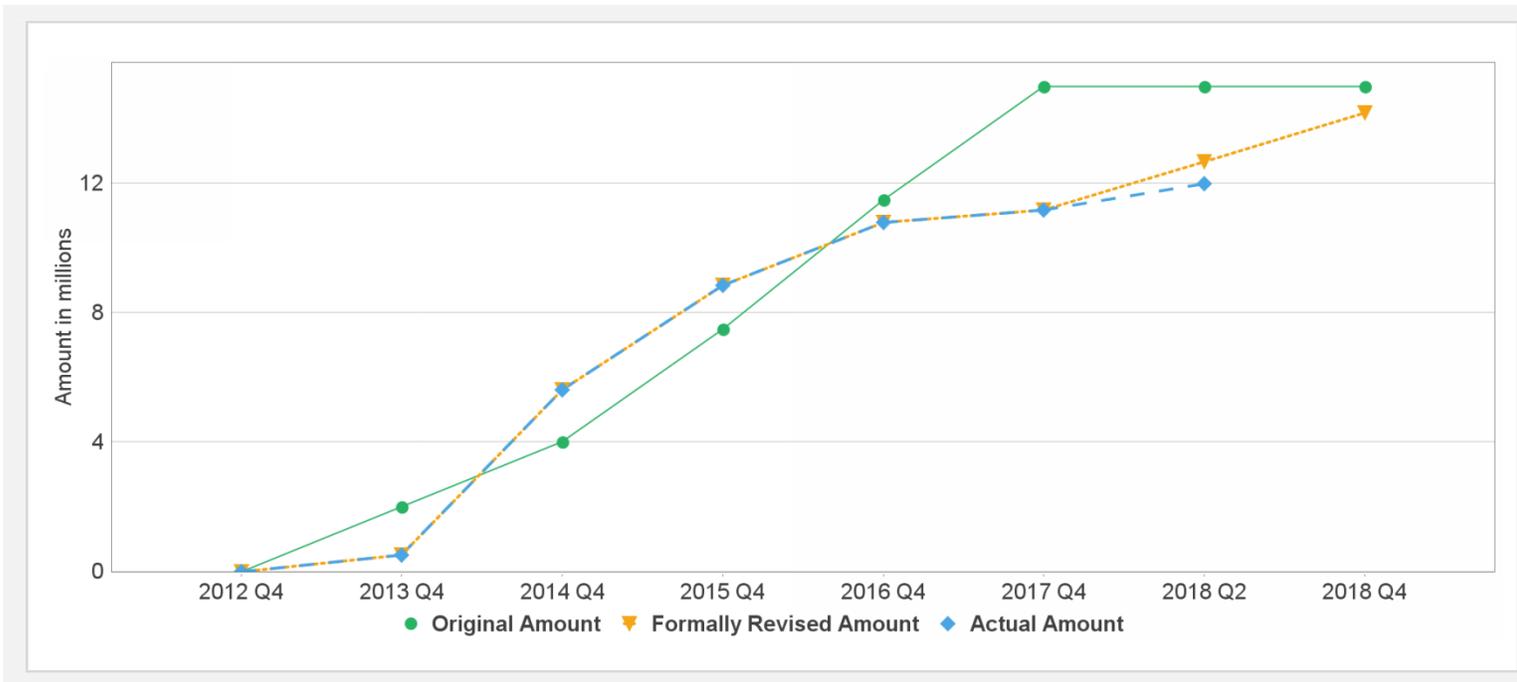
| Project | Loan/Credit/TF | Status | Currency | Original | Revised | Cancelled | Disbursed | Undisbursed | Disbursed |
|---------|----------------|-----------|----------|----------|---------|-----------|-----------|-------------|---|
| P122320 | IDA-50390 | Effective | USD | 15.00 | 15.00 | 0.00 | 11.99 | 2.25 |  80% |

Key Dates (by loan)

| Project | Loan/Credit/TF | Status | Approval Date | Signing Date | Effectiveness Date | Orig. Closing Date | Rev. Closing Date |
|---------|----------------|-----------|---------------|--------------|--------------------|--------------------|-------------------|
| P122320 | IDA-50390 | Effective | 03-Apr-2012 | 04-Apr-2012 | 18-Dec-2012 | 30-Jun-2017 | 30-Jun-2018 |



Cumulative Disbursements



Restructuring History

Level 1 Approved on 10-Nov-2014 ,Level 2 Approved on 14-Jun-2017

Related Project(s)

There are no related projects.