



Hebei Air Pollution Prevention and Control Program (P154672)

EAST ASIA AND PACIFIC | China | Environment & Natural Resources Global Practice |
IBRD/IDA | Program-for-Results | FY 2016 | Seq No: 2 | ARCHIVED on 01-May-2017 | ISR27786 |

Implementing Agencies:

Program Development Objectives

Program Development Objective (from Program-for-Results Appraisal Document)
To reduce emissions of specific air pollutants in the key sectors in Hebei

Overall Ratings

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

Implementation Status and Key Decisions

The Program has made good progress toward better prevention and control of air pollution, particularly in (a) the decommissioning of older, highly polluting buses and their replacement with clean energy buses and (b) inclusion of all emissions from agricultural sector in the emission inventory system. However, the third-party verification required to validate achievement of the Program's disbursement-linked indicators has not yet taken place

Data on Financial Performance

Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P154672	IBRD-86230	Effective	USD	500.00	500.00	0.00	1.25	498.75	0%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P154672	IBRD-86230	Effective	06-Jun-2016	12-Jul-2016	11-Oct-2016	31-Dec-2018	--

Risks

Systematic Operations Risk-rating Tool



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

Disbursement Linked Indicators (DLI)

► Number of EPBs at the provincial and prefecture level implementing Standard Protocols on CEM Systems for emissions of air pollutants (Number)

	Baseline	Actual (Previous)	Actual (Current)
Value	0.00	--	0.00
Date	06-Jun-2016	--	10-Apr-2017

Comments

EPB and the Bank are discussing the upgraded Standard Operating Procedures that will then be used in the trainings.

► Percentage of enterprises in State-controlled Lists and Municipal-controlled Lists integrated in the Improved CEM and Enforcement Systems for Air Pollutants (Percentage)

	Baseline	Actual (Previous)	Actual (Current)
Value	0.00	--	0.00
Date	06-Jun-2016	--	10-Apr-2017

Comments

100% of the State-controlled enterprises are covered in the Hebei EPB's CEM system, which currently includes 788 enterprises with about 2460 emission points. The integration of the municipal-data should be done by the end of the year.



► Number of Clean Stoves installed (Number)

	Baseline	Actual (Previous)	Actual (Current)
Value	0.00	--	0.00
Date	06-Jun-2016	--	10-Apr-2017

Comments

The laboratory at China Agriculture University (CAU) has tested the initial batch of 24 stoves from Hebei, and shared test results of 12 stoves with the responsible agencies in Hebei. All of them met the standards defined in the PforR. About 60,000 stoves from these eligible models have already been deployed.

► Number of hectares with increased NUE of at least 37% due to the application of formula fertilizer based on soil testing (Hectare(Ha))

	Baseline	Actual (Previous)	Actual (Current)
Value	0.00	--	0.00
Date	06-Jun-2016	--	10-Apr-2017

Comments

The mission discussed different technical and operational aspects and challenges related with a practical and affordable system to monitor such a large area. The Agriculture Bureau is to provide a draft monitoring plan adapted to the local conditions.

► Number of Clean Energy Buses replacing diesel buses, which are disposed of, in accordance with the National Regulations (Number)

	Baseline	Actual (Previous)	Actual (Current)
Value	0.00	--	0.00
Date	06-Jun-2016	--	10-Apr-2017

Comments

There were 3,360 clean energy buses purchased in 2016, which include 3,034 Battery Electric Buses, 320 NG-electric Hybrid Buses, and 6 Compressed Natural Gas (CNG) buses. However, the information of how many diesel buses had been sent to dismantling facilities (and action required in the DLI) was not available.

► Implementation of a Comprehensive Official Emissions Inventory System (Number)

	Baseline	Actual (Previous)	Actual (Current)
Value	0.00	--	0.00
Date	06-Jun-2016	--	10-Apr-2017



Comments

Hebei EPB and Hebei RAES updated the mission that the provincial inventory has been compiled for 2013 and 2014. The most recent update was for 2015, based on the Ministry of Environmental Protection (MEP)'s published technical guidelines. Supported by the guidance received and enhanced database, the 2015 inventory has considerable improvement compared with the previous versions, including the additional coverage of crop fertilizers emissions for the agricultural sector. The 2014 inventory only included some livestock emissions as agricultural source. The 2015 inventory also expanded the volatile emission sources to restaurants and catering

► Approval of a Cost-effective Comprehensive Plan on Air Quality Control for the next 5 years (Number)

	Baseline	Actual (Previous)	Actual (Current)
Value	0.00	--	0.00
Date	06-Jun-2016	--	10-Apr-2017

Comments

Hebei EPB informed the mission that studies are underway for the next 5-years plan on air quality control. The research team, however, is expected to modify the on-going works to take into account of the recent publications of the provincial government's guidance on general air quality control works and implementation plans of 18 specific projects for 2017

Results

Results Area

Intermediate Results Area

Comprehensive control of industrial enterprises and reduced emission of multi-pollutants emissions (SO₂, NO_x, and primary PM_{2.5}) from key industrial sectors

Area pollution control and dust control

Prevention and control of emissions from mobile sources

Project Development Objective Indicators

► Reduction of SO₂ emissions from enterprises included in the CEM (tons) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	150,000.00
Date	02-Dec-2013	22-Sep-2016	10-Apr-2017	31-Dec-2018

► : Reduction of NO_x emissions from enterprises included in the CEM (tons) (Number, Custom)



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	160,000.00
Date	01-Jan-2014	22-Sep-2016	10-Apr-2017	31-Dec-2018

► Reduction of PM2.5 emissions from the 800,000 clean stoves deployed (tons) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1,300.00
Date	01-Jan-2014	22-Sep-2016	10-Apr-2017	31-Dec-2018

► : Reduction of NOx emissions from the transport sector (tons) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	40,000.00
Date	01-Jan-2014	22-Sep-2016	10-Apr-2017	31-Dec-2018

Overall Comments

Despite progress observed during the mission the information for these Indicators must derive from the DLIs. Since DLIs have not be reported yet, the team cannot register any progress regarding this Indicators because the specificity of the calculations. For example, clean stoves are defined as those with at least 60% emission reductions from the baseline (traditional stoves). However, eligible stoves performed differently, with models achieving up to 90% reduction. Therefore, it is necessary to know the number of stoves deployed of each eligible stove model in order to calculated emission reductions. This type of information would be available in the verified reports.

Intermediate Results Indicators

► Number of EPBs at the provincial and prefecture level implementing Standard Protocols on CEM Systems for emissions of air pollutants (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	12.00
Date	06-Jun-2016	22-Sep-2016	10-Apr-2017	29-Dec-2017



► Percentage of enterprises in State-controlled Lists and Municipal-controlled Lists integrated in the Improved CEM and Enforcement Systems for Air Pollutants (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	100.00
Date	06-Jun-2016	22-Sep-2016	10-Apr-2017	29-Dec-2017

► Number of clean stoves installed (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	800,000.00
Date	06-Jun-2016	22-Sep-2016	10-Apr-2017	29-Dec-2017

► Number of Clean Energy Buses replacing diesel buses, which are disposed of, in accordance with the National Regulations (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	4,500.00
Date	06-Jun-2016	22-Sep-2016	10-Apr-2017	29-Dec-2017

Overall Comments

Despite progress observed during the mission the information for these Indicators must derive from the DLIs. Since DLIs have not be reported yet, the team cannot register any progress regarding this Indicators.