GEF Mainstreaming Integrated Water and Environment Management (P145897)

EAST ASIA AND PACIFIC | China | Water Global Practice |
Global Environment Project | Investment Project Financing | FY 2016 | Seq No: 6 | ARCHIVED on 21-Jun-2019 | ISR37593 |

Implementing Agencies: The People's Republic of China, The Ministry of Water Resources (MWR), The Ministry of Econogical Environment (MEE), Water Resources Department in Hebei Province, Chengde Ecological Environment Bureau

Key Dates

Key Project Dates

Bank Approval Date: 09-May-2016
Effectiveness Date: 27-Mar-2017
Planned Mid Term Review Date: 02-Sep-2019
Actual Mid-Term Review Date: --
Original Closing Date: 31-Dec-2021
Revised Closing Date: 31-Dec-2021

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Project Development Objective (PDO) is to increase water productivity and reduce pollution discharges in the project areas to mainstream and scale up an innovative approach to integrated water and environmental management in the three river basins entering the Bohai Sea. The PDO will be achieved through: (a) increasing irrigation water use efficiency and all other ways possible to effectively use water under a cap of water consumption; (b) reducing water pollution discharges under a cap of environment capacity and (c) increasing ecological river flows. The above measures will minimize the negative impacts on the ecosystem of Bohai Sea, contributing to the achievement of global environmental benefits (GEBs).

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

No

Components

Name
Component 1: Mainstreaming of Innovative Approach on Integrated Water and Environment Management:(Cost $3.45 M)
Component 2: Demonstration in Hai Basin on Integrated Water and Environment Management:(Cost $90.10 M)
Component 3: Scaling up the Integrated Water and Environment Management Approach in Three River Basins:(Cost $7.30 M)
Component 4: Institutional Capacity Building and Project Management:(Cost $3.65 M)

Overall Ratings

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

Implementation Status and Key Decisions

Progress has been made since the last supervision in December 2018. As of June 7, 2019, the investment completed (RMB300.19 million) accounted for 45% of the total investment planned under the project, compared to 38% of the last supervision mission in December 2018. The Grant financing completed (US$1.34) accounted for 14% of the total Grant financing for the project, compared to 12% of the last mission.
The Project has been implemented for over two years towards its development objectives since it was effective on March 27, 2017. The Project implementation is focusing on review and updating of the terms of references (TORs) for the studies with Grant financing. Progress has been made in implementing the four components of the Project based on the M&E performance indicators updated in June 2019 as summarized below:

1. Component 1: Mainstreaming of Innovative Approach on Integrated Water and Environment Management (IWEM): about 13 study contracts under MWR PMO and 4 under MEE PMO have been signed and under implementation;
2. Component 2: Demonstration in Hai Bain on IWEM: There have been reductions of 1,000 tons of COD and 140 tons of NH3-N (in demonstration areas of Shi-Jia-Zhuang and Cheng-De), and 25 million cubic meters of groundwater overdraft (in demonstration areas of Gao-Cheng and Jin-Zhou) against the baseline data from demonstration areas;
3. Component 3: Scaling up the IWEM Approach in Three River Basins: This component has not started implementation yet and will be implemented after two years when satisfactory results are obtained from implementation of the first two components; and
4. Component 4: Institutional Capacity Building and Project Management: Training, workshops and domestic and overseas study tours have been conducted to strengthen the institutional capacity in the PMOs of MEE, MWR and Hebei Province as planned.

The next supervision mission is scheduled in September/October 2019, in addition to the status review meetings scheduled in Beijing to speed up implementation of software components before September/October 2019.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	Moderate	Moderate	Moderate
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	Moderate	Moderate	Moderate
Fiduciary	Moderate	Moderate	Moderate
Environment and Social	Moderate	Moderate	Moderate
Stakeholders	Moderate	Moderate	Moderate
Other	--	--	--
Overall	Moderate	Moderate	Moderate

Results

PDO Indicators by Objectives / Outcomes

PDO Indicators

►1. Policy Recommendations made under the project incorporated into the policies on water consumption control issued by MWR, and on pollution control issued by MEP, respectively (measuring unit: the (Number, Custom)

Baseline	Actual (Previous)	Actual (Current)	End Target

Value	0.00	0.00	0.00	4.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸2-A. Water pollution (COD) discharged into the Hutuo and Luan Rivers reduced in the two demonstration areas Chengde and Shijiazhuang (measuring unit: tons of COD) (Metric tons/year, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	950.00	1,000.00	8,074.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

Comments: During project appraisal, it was agreed that the existing government M&E system would be used to collect the observed data for the actual values of the indicators for water pollution control including 2-C on TN and 2-D on TP. However, the existing government M&E system has recently been updated, which has not measured TN and TP any more. The mission considered that the impact of this change is limited in measurement of the outcome of the Project on pollution control because the project still has other two important indicators 2-A on COD and 2-B on NH3-N, which will continue to be measured by the updated Government M&E system. The MWR and MEE agreed to remove the two indicators through the project restructuring in due course together with other changes.

◢2-B. Water pollution (NH3-N) discharged into the Hutuo and Luan Rivers reduced in the two demonstration areas Chengde and Shijiazhuang (measuring unit: tons of NH3-N). (Metric tons/year, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	120.00	140.00	547.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

◢2-C. Water pollution discharged into the Hutuo and Luan Rivers reduced in the two demonstration areas Chengde and Shijiazhuang (measuring unit: tons of TN). (Metric tons/year, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	670.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

◢2-D. Water pollution discharged into the Hutuo and Luan Rivers reduced in the two demonstration areas Chengde and Shijiazhuang (measuring unit: tons of TP). (Metric tons/year, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	85.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸3-A. Water productivity increased in two demonstration rural areas Gaocheng and Jinzhou (measuring unit: kg of grain production per/m3). (Cubic Meter(m3), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.10	1.12	1.20	1.26
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

◢3-B. Water productivity increased in scaling-up areas in Shijin irrigation areas (measuring unit: kg of grain production /m3) (Cubic Meter(m3), Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.19	1.11	1.20	1.29
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

◢3-C. Water productivity increased in scaling-up areas in Hetao irrigation areas (measuring unit: kg of grain production /m3) (Cubic Meter(m3), Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.10	1.22	1.22	1.26
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸4. Reductions achieved in overdraft of groundwater in 2 demonstration sites in Hai River Basin (Gaocheng and Jinzhou) (measuring unit: million m3/year). (Cubic meters/year, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	20.10	25.00	72.93
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸5-A. IWEMP approach demonstrated and scaled up to cover the MWR defined problem areas in 3 river basins (measuring unit: km2) (Square kilometer(km2), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	28,420.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

◢5-B. IWEMP approach demonstrated and scaled up to cover the MEP defined problem areas in 3 river basins (measuring unit: km2) (Square kilometer(km2), Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	125,380.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

Intermediate Results Indicators by Components

Component 1: Mainstreaming of Innovative Approach on Integrated Water and Environment Management

▸1-A. All study reports prepared and completed as planned with good quality (measuring unit: the number of study reports prepared, revised and completed with good quality) (GEF Financed) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	4.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

◢1-B. All study reports prepared and completed as planned with good quality (measuring unit: the number of study report prepared, revised and completed with good quality) (Government Financed) (Number, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	5.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸2. Operational manuals/guidelines completed and accepted with good quality (measuring unit: the number of operational manuals prepared, revised and completed with good quality) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	5.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

Component 2: Demonstration in Hai Basin on Integrated Water and Environment Management

▸3-A. All study reports prepared and completed as planned with good quality (measuring unit: the number of study reports prepared, revised and completed with good quality) (GEF Financed) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	10.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

◢3-B. All study reports prepared and completed as planned with good quality (measuring unit: the number of study reports prepared, revised and completed with good quality) (Government Financed) (Number, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	10.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸4-A. RS/ET/EC-based TVAPs prepared and implemented with good quality for Luan sub-river basin and Hutuo sub-river basin, respectively (TVAP GEF Financed). (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

◢4-B. RS/ET/EC-based the IWEMPs prepared and implemented for Chengde Municipal City and Shijazhuang Municipal City and extension plans prepared for scaling-up areas (the IWEMP, MTR and ICR GEF Financed (Number, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸5. Capacity building for citizen engagement in preparation of TVAPs and IWEMPs - Channels are institutionalized for citizens to engage with government agencies and other stakeholders. (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	8.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸6. Women participation to increase water productivity and reduce water pollution through WUAs during IWEMP implementation (measuring unit: increased percentage of female membership in the WUAs) (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	30.00	35.00	35.00	50.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸7-A. Construction of 3 small wastewater treatment plants and pipelines, 2 in Chengde County and 1 in Kuancheng County with good quality in demonstration areas as planned (Wastewater pollution-N) (Tones/year, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2,136.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

◢7-B. Construction of 3 small wastewater treatment plants and pipelines, 2 in Chengde County and 1 in Kuancheng County with good quality in demonstration areas as planned (Wastewater pollution-P) (Tones/year, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	303.60
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

◢7-C. Construction of 3 small wastewater treatment plants and pipelines, 2 in Chengde County and 1 in Kuancheng County with good quality in demonstration areas as planned (Wastewater pollution-BOD) (Tones/year, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2,796.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸8. Improved irrigation technologies applied in 2 demonstration counties in Shijiazhuang Municipal City (measuring unit: No. of hectares of irrigated areas applied with improved irrigation technologies (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	2,660.00	5,900.00	5,900.00	13,300.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

Component 3: Scaling up the Integrated Water and Environment Management Approach in Three River Basins

▸9-A. All study reports prepared and completed as planned with good quality (measuring unit: the number of study reports prepared, revised and completed with good quality) (GEF Financed) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	7.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021
Comments:	Under implementation, and not completed.			

◢9-B. All study reports prepared and completed as planned with good quality (measuring unit: the number of study reports prepared, revised and completed with good quality) (Government Financed) (Number, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	4.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸10. National Water Environment Technology Extension Platform established at the MEP (measuring unit: percentage of software development and study progress completed with good quality) (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	10.00	10.00	100.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸11. National ET Monitoring and Management Platform established at the MWR (measuring unit: percentage of software development and study progress completed with good quality) (GEF Financed) (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	10.00	10.00	100.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸12-A. Annual scaling-up activities carried out and inspection and assessment reports prepared and completed for the up-scaling areas for MEP (GEF Financed) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	6.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

◢12-B. Annual scaling-up activities carried out and inspection and assessment reports prepared and completed for the up-scaling areas for the MWR (GEF Financed) (Number, Custom Breakdown)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	6.00
Date	30-Jan-2017	16-Jun-2018	07-Jun-2019	30-Jun-2021

Component 4: Institutional Capacity Building and Project Management

▸13. Establishment of project website according to IW: LEARN guidelines: (measuring unit: functioning website with the number of hits recorded by site) (GEF Financed) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸14. Preparation of project-related experience notes (2) and one results note (1) for IW: LEARN portal: (measuring unit: completed documents) (GEF Financed) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	3.00

Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸15. Establishment and made operational project monitoring and evaluation (M&E) system: (measuring unit: functioning M&E system capable to generate semi-annual M&E reports) (GEF Financed) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.00	2.00	2.00	10.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸16. Female staff and specialists participation in the project workshops and training at the central, provincial, municipal and county levels (increased % of female staff & specialists of the total num (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	30.00	30.00	30.00	40.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸17. Cooperation Framework Agreement reached to facilitate the development and implementation of TVAP/IWEMP between the respective administrative units responsible for environment and water at all leve (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	4.00	5.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

▸18. Coordination meetings between the respective administrative units to support the implementation of the framework agreements at the three levels on an annual basis (GEF Financed) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	4.00	4.00	4.00	24.00
Date	30-Jan-2017	18-Dec-2018	07-Jun-2019	30-Jun-2021

Data on Financial Performance

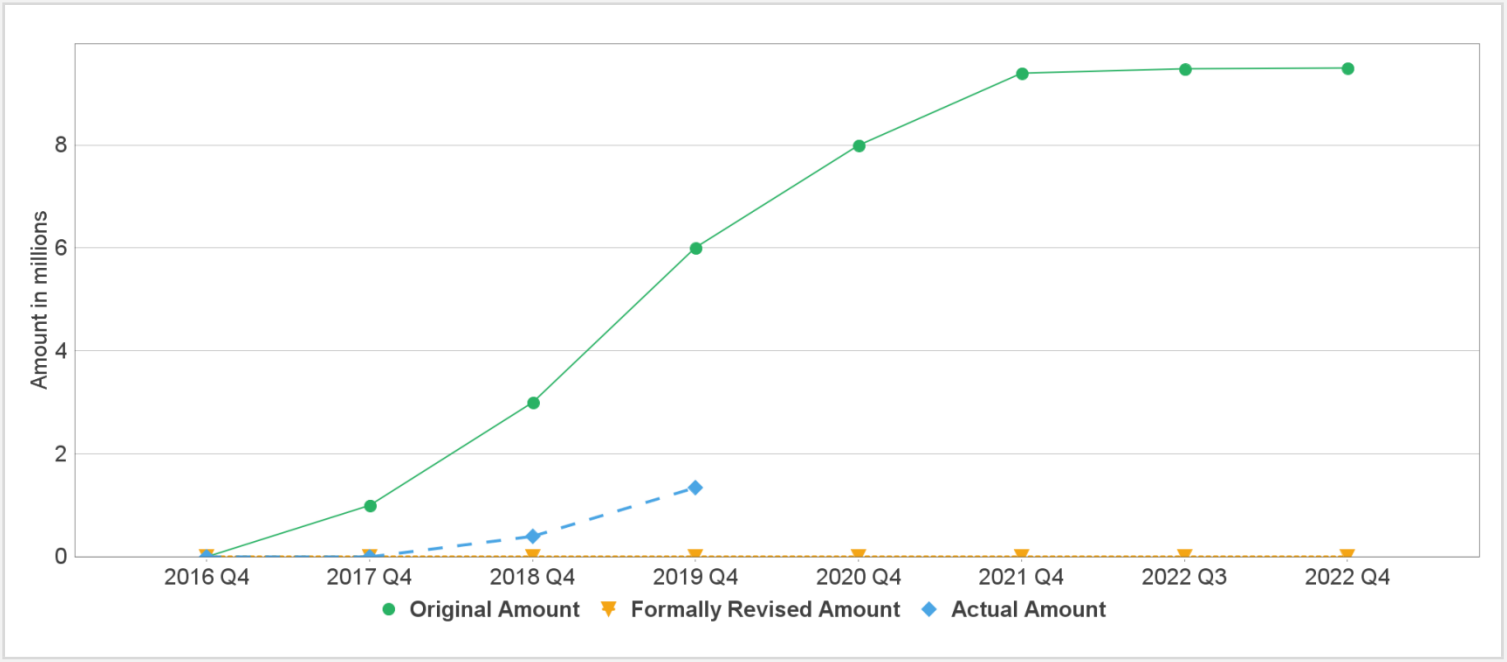
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P145897	TF-A2428	Effective	USD	9.50	9.50	0.00	1.34	8.16	14%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P145897	TF-A2428	Effective	29-Sep-2016	29-Sep-2016	27-Mar-2017	31-Dec-2021	31-Dec-2021

Cumulative Disbursements



Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.