



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: 4 | ARCHIVED on 25-Jun-2018 | ISR32913 |

Implementing Agencies: The People's Republic of China, The Ministry of Water Resources (MWR), The Ministry of Ecological 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

Global Development Objectives

Global Environmental 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 Global Environmental 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	● Satisfactory
Overall Implementation Progress (IP)	● Satisfactory	● Moderately Satisfactory



Overall Risk Rating

● Moderate

● Moderate

Implementation Status and Key Decisions

The Project has been implemented for over one year towards its development objectives since it was effective on March 27, 2017. The Project is in the early stage of the implementation as planned, focusing on review and updating of the terms of references (TORs) for the studies with Grant financing, and construction of physical works with counterpart funding. Progress has been made in implementing the four components of the Project based on the M&E performance indicators updated June 2018 as summarized below: (a) Mainstreaming of Innovative Approach on Integrated Water and Environment Management (IWEM): about 10 study contracts have been signed or under bidding process and will be soon implemented; (b) Demonstration in Hai Bain on IWEM: there have been reductions of 813.51 tons of COD and 115.71 tons of NH₃-N (in demonstration areas of Shi-Jia-Zhuang and Cheng-De), and 18.1 million cubic meters of groundwater overdraft (in demonstration areas of Gao-Cheng and Jin-Zhou) against the baseline data from demonstration areas; (c) Scaling up the IWEM Approach in Three River Basins: implementation of first two components will be providing solid basis for this component; and (d) Institutional Capacity Building and Project Management: the PMOs have carried out the following activities to support project implementation: (i) Grant Implementation Plan has been signed between Ministry of Finance (MOF) and Ministry of Water Resources (MWR) & Ministry of Ecological Environment (MEE), respectively; (ii) the Baseline survey report for monitoring and evaluation (M&E) has been finalized for the project and M&E activities have been completed for the year 2017 to 2018; and (iii) 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.

As of June 2018, the investment completed (RMB Y22.41 million) is 21% of the total investment planned under the project. The Grant financing completed (US\$0.41 million) accounted for 4.3% of the total Grant financing for the project, while the Grant disbursement in the Bank system accounting for 4.1% of the total Grant financing. It's expected that the total GEF Grant financing will be faster during 2018 and 2019 because many TORs for the studies and bidding processes have been completed and the contracts will be signed and implemented during the period.

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

Global Environmental Objective 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-Jun-2017	16-Jun-2018	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	0.00	813.51	8,074.00
Date	30-Jan-2017	18-Jun-2017	16-Jun-2018	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	0.00	115.71	547.00
Date	30-Jan-2017	18-Jun-2017	16-Jun-2018	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-Jun-2017	16-Jun-2018	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-Jun-2017	16-Jun-2018	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	1.10	1.12	1.26
Date	30-Jan-2017	18-Jun-2017	16-Jun-2018	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	0.00	1.11	1.29
Date	30-Jan-2017	18-Jun-2017	16-Jun-2018	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	0.00	1.20	1.26
Date	30-Jan-2017	18-Jun-2017	16-Jun-2018	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	0.00	18.10	72.93
Date	30-Jan-2017	18-Jun-2017	16-Jun-2018	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-Jun-2017	16-Jun-2018	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-Jun-2017	16-Jun-2018	30-Jun-2021

Overall Comments

The indicators would be measured with government existing M&E system as agreed during project appraisal. Indicators 2-C on TN and 2-D on TP have not been measured because the government new M&E system for water pollution recently being effective does not require to measure TN and TP any more.



Intermediate Results Indicators

► 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	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	30-Jun-2021

► 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	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	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	30.00	35.00	50.00
Date	30-Jan-2017	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	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	2,660.00	5,820.80	13,300.00
Date	30-Jan-2017	20-Dec-2017	16-Jun-2018	30-Jun-2021

► 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	20-Dec-2017	16-Jun-2018	30-Jun-2021

▲ 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	20-Dec-2017	16-Jun-2018	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	0.00	0.00	100.00
Date	30-Jan-2017	20-Dec-2017	16-Jun-2018	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	0.00	0.00	100.00
Date	30-Jan-2017	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	30-Jun-2021

▶ 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	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	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	1.00	1.00	10.00
Date	30-Jan-2017	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	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	0.00	5.00
Date	30-Jan-2017	20-Dec-2017	16-Jun-2018	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	20-Dec-2017	16-Jun-2018	30-Jun-2021

Overall Comments

A few indicators show zero because (i) some activities have not been initiated given it's not the time to initiate; and (ii) some activities should have been initiated but actually not, which will be discussed during the follow up supervision mission in July/August 2018 for improvements

Data on Financial Performance

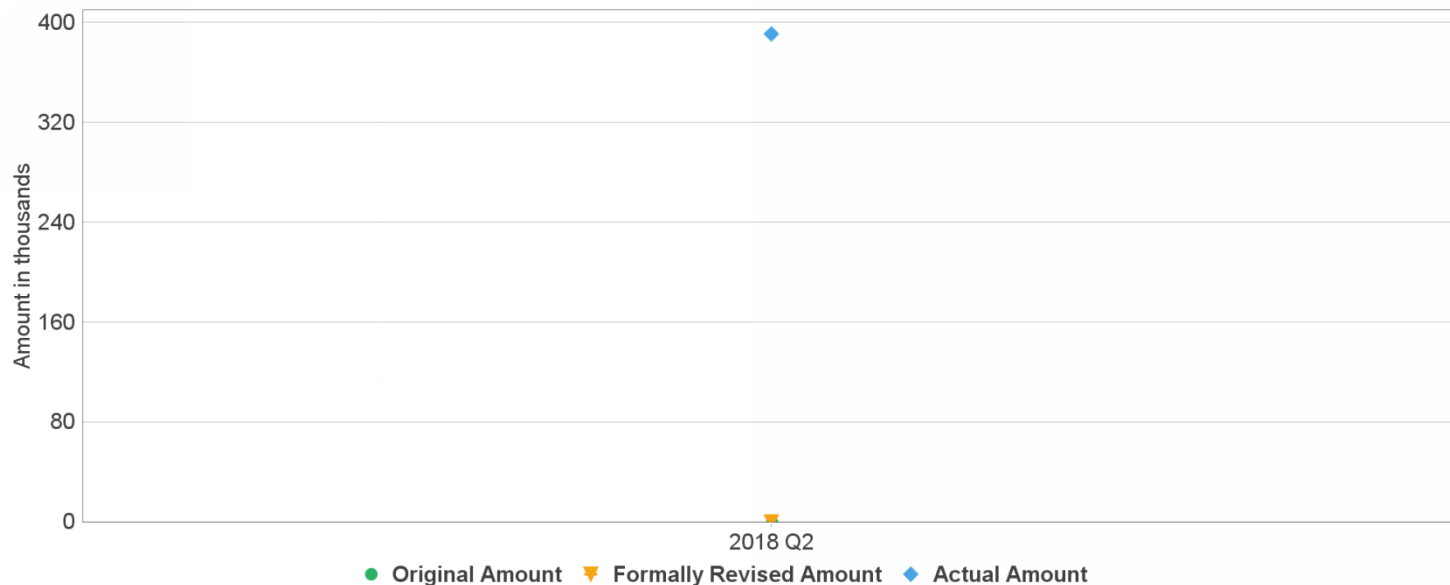
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	Disbursed
P145897	TF-A2428	Effective	USD	9.50	9.50	0.00	0.39	9.11	 4.1%

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.