



China: Liaoning Safe and Sustainable Urban Water Supply Project (P158713)

EAST ASIA AND PACIFIC | China | Water Global Practice |
IBRD/IDA | Investment Project Financing | FY 2018 | Seq No: 5 | ARCHIVED on 25-May-2020 | ISR41686 |

Implementing Agencies: Liaoning Urban Construction and Renewal Project Management Company Limited (LUCRPMC), PEOPLE'S REPUBLIC OF CHINA

Key Dates**Key Project Dates**

Bank Approval Date: 06-Jun-2018

Effectiveness Date: 23-Oct-2018

Planned Mid Term Review Date: 31-Dec-2020

Actual Mid-Term Review Date:

Original Closing Date: 30-Jun-2023

Revised Closing Date: 30-Jun-2023

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The project development objectives are to improve water quality and operational efficiency of selected water supply utilities in the project areas.

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

No

Components Table

Name

Component 1: Water supply service infrastructure improvement:(Cost \$287.14 M)

Component 2: Water supply service management improvement:(Cost \$57.08 M)

Component 3: Project Implementation support and institutional strengthening:(Cost \$16.94 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Implementation Progress (IP)	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Risk Rating	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial

Implementation Status and Key Decisions

Further progress is reported in project implementation since last Bank mission, in spite of the fact that the COVID-19 pandemic had serious impact on the project implementation. All the project water supply companies (WSCs) are complying with the prevailing government water quality health standards. Water quality tests are being undertaken regularly in the WSCs' own labs or external labs. Positive changes are noted in the utilities' operational improvements in terms of non-revenue water (NRW) and energy efficiency. A smart water pilot project in Fushun WSC is under way revealing good potential in reducing NRW for the pilot area through improving the data recording accuracy and timeliness.

As the reporting period is mostly winter season in Liaoning not suitable for construction, the project implementation focused mainly on technical design, procurement and other non-physical activities under Components 2 and 3. These include design and procurement of the smart water systems in different project cities, development and implementation of the NRW and energy efficiency improvement plans, and O&M facilities procurement, etc. The project implementation and loan disbursement are behind schedule but expected to improve in the coming months, as the WSCs have started to resume construction of project works at the time of the review.



The mid-term review (MTR) for the project is planned for December 31, 2020. The next project implementation support mission is tentatively scheduled between October and December, 2020.

Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

Direct project beneficiaries				
▶ Direct project beneficiaries (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	370,097.00	399,081.00	5,690,600.00
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
▶ Female beneficiaries (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	49.00	49.00	49.00



Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
Comments:	Supplemental to the Direct Project Beneficiaries Indicator			

Compliance with water quality Health Standards				
► Compliance with water quality Health Standards (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Shenyang: 33% Fushun:33% Anshan:33% Fuxin:33% Gaizhou:33% Weighted Average: 33.04%	Shenyang:100% Fushun:100% Anshan:100% Fuxin:100% Gaizhou:30.19% Weighted Average:86%	Shenyang:100% Fushun:100% Anshan:100% Fuxin:100% Gaizhou:30.19% Weighted Average:86%	Shenyang:100% Fushun:100% Anshan:100% Fuxin:100% Gaizhou:100% Weighted Average:100%
Date	28-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023

Non-Revenue-Water in each project city				
► Non-Revenue-Water in each project city (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Shenyang:33.0% Fushun:38.8% Anshan:30.9% Fuxin:25.7% Gaizhou:64.1%	Shenyang:31.14% Fushun:33.11% Anshan:30.35% Fuxin:23.8% Gaizhou:62.5%	Shenyang:33.29% Fushun:39.10% Anshan:30.25% Fuxin:23.8% Gaizhou:63.45%	Shenyang:29.8% Fushun:22.1% Anshan:24.0% Fuxin:16.2% Gaizhou:35.1%
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
Comments:	Note: Comparing to the results reported in the last ISR, the increases of non revenue water (NRW) in various WSCs were mainly due to the impacts of the COVID-19. During the COVID-19 pandemic, the water supply and water selling were decreased. The lower water supply also led to higher NRW rate.			

Energy consumption by the water utilities in each project city				
► Energy consumption by the water utilities in each project city (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Weighted Average:0.61 kwh/m3 Shenyang:0.58 Fushun:0.60 Anshan:0.46 Fuxin:0.96 Gaizhou:1.11	Weighted Average:0.87 kwh/m3 Shenyang:0.79 Fushun:0.55 Anshan:0.46 Fuxin:0.96 Gaizhou:1.6	Weighted Average:0.82 kwh/m3 Shenyang:0.54 Fushun:0.542 Anshan:0.452 Fuxin:0.9 Gaizhou:1.58	Weighted Average: 0.51 kwh/m3 Shenyang:0.47 Fushun:0.51 Anshan:0.45 Fuxin:0.84 Gaizhou:0.36
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
Comments:	Average energy consumption per m3 (kwh/m3) of water sold (billed) of each water company. Note: the increasing of energy consumption in some WSCs was also due to the impact of the COVID-19 and the reduction of water supply.			



Overall Comments

The information on results target achievement is dated Feb. 28, 2020. The reported achievement has not reflected the contributions of the project activities financed not by the Bank loan (NBF).

Intermediate Results Indicators by Components

Water supply service infrastructure improvement				
▶ Length of new or rehabilitated main pipelines for water supply (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	23.25	26.05	300.00
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
▶ Number of secondary booster pumps installed or rehabilitated (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	37.00	37.00	270.00
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
Comments:	FS-E01, counterpart funds.			
▶ Number of district water meters installed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	103.00	103.00	945.00
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
▶ Number of water meters installed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	12,741.00	19,378.00	115,000.00
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023

Water supply service management improvement				
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▶ Working Ratio (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Shenyang:0.85 Fushun:0.95 Anshan:1.02 Fuxin:0.88 Gaizhou:1.30	Shenyang:0.85 Fushun:0.95 Anshan:0.91 Fuxin:0.90 Gaizhou:1.30	Shenyang:0.85 Fushun:0.9675 Anshan:1 Fuxin:0.90 Gaizhou:1.15	Shenyang:0.80 Fushun:0.85 Anshan:0.90 Fuxin:0.85 Gaizhou:0.95
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
▶ Customer satisfaction with the quality of water supply services (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	65.00	83.00	86.31	75.00
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
▶ Percentage of women satisfied with the quality of water supply services (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	65.00	83.00	86.84	75.00
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
Comments:	Supplemental to customer satisfaction with the quality of water supply services			
▶ Number of cities that have hydraulic network models with 24 hours' simulation capability (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.00	1.00	1.00	3.00
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
▶ Number of cities that have computerized Asset Management systems (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4.00	4.00	5.00
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
▶ Number of implementation ready PPP transactions prepared under the project (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2.00
Date	31-Aug-2018	02-Dec-2019	28-Feb-2020	30-Jun-2023



Project implementation support and institutional strengthening				
▶ Number of water utility staff received training on asset management systems, water quality monitoring, and pipe leakage detection and repairing (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	485.00	754.00
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
▶ Number of Female Staff received training on asset management systems, water quality monitoring, and pipe leakage (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	178.00	300.00
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023
Comments:	Supplemental to Number of water utility staff received training on asset management systems, water quality monitoring, and pipe leakage detection and repairing indicator			
▶ Grievances responded and/or resolved within the stipulated service standards for response times (Text, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	Shenyang:99% Fushun:99% Anshan:99% Fuxin:99% Gaizhou:99%	Shenyang:82.39% Fushun:90.12% Anshan:86.18% Fuxin:86.27% Gaizhou:62.92%	Shenyang:82.39% Fushun:90.12% Anshan:86.18% Fuxin:86.27% Gaizhou:62.92%	Shenyang:99% Fushun:99% Anshan:99% Fuxin:99% Gaizhou:99%
Date	27-Jun-2017	02-Dec-2019	28-Feb-2020	30-Jun-2023

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

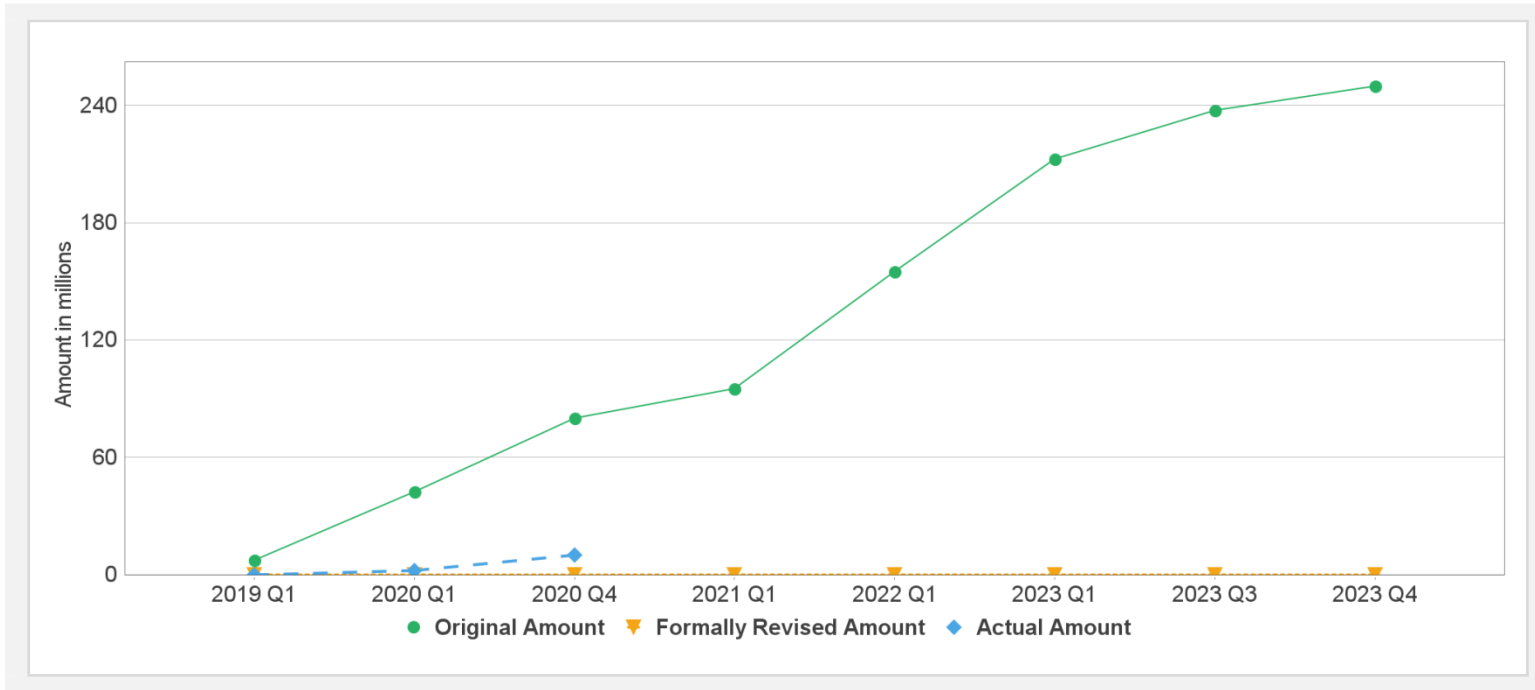
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P158713	IBRD-88370	Effective	USD	250.00	250.00	0.00	10.63	239.38	4.3%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P158713	IBRD-88370	Effective	06-Jun-2018	06-Aug-2018	23-Oct-2018	30-Jun-2023	30-Jun-2023



Cumulative Disbursements



PBC Disbursement

PBC ID	PBC Type	Description	Coc	PBC Amount	Achievement Status	Disbursed amount in Coc	Disbursement % for PBC
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Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.