



Paraiba Improving Water Resources Management and Services Provision (P165683)

LATIN AMERICA AND CARIBBEAN | Brazil | Water Global Practice |
IBRD/IDA | Investment Project Financing | FY 2019 | Seq No: 4 | ARCHIVED on 22-Dec-2020 | ISR44850 |

Implementing Agencies: State Secretariat for Infrastructure, Water Resources and Environment, CAGEPA - State Water and Sanitation Company, AESA - State Water Resources Management Executive Agency

Key Dates**Key Project Dates**

Bank Approval Date: 28-Feb-2019

Effectiveness Date: --

Planned Mid Term Review Date: 30-Jun-2022

Actual Mid-Term Review Date:

Original Closing Date: 30-Jun-2026

Revised Closing Date: 30-Jun-2026

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

To (i) strengthen capacity for integrated water resources management in the State; (ii) improve reliability of water services in the Agreste and Borborema regions; and (iii) improve the operational efficiency of water and wastewater services in the Joao Pessoa Metropolitan Region.

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

No

Components Table

Name

Integrated Water Resources Management:(Cost \$11.10 M)

Improved Water and Sanitation Services Reliability and Efficiency:(Cost \$195.66 M)

Contingent Emergency Response (CERC)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Moderately 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

The loan agreement was signed in December 1, 2020; and the Project is scheduled to be declared effective in January 2021. The Project Management Unit at SEIRHMA and the Project Implementation Unit at CAGEPA are progressing to advance technical and procurement documentation, so procurement of several Project activities can start immediately after Project effectiveness. The Bank Team will continue to support the Borrower with various experts, including procurement, wastewater treatment, water resources management, and non-revenue water specialists. Weekly and fortnightly monitoring and implementation support meetings have been scheduled for the most critical activities, including the Cariri water system and the wastewater collection and treatment works.



Risks

Systematic Operations Risk-rating Tool

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

Results

PDO Indicators by Objectives / Outcomes

Strengthen capacity for integrated water resources management				
▶ Annual operation water management plan for the Paraiba river issued (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2021
Comments:	Plan describing water transferred from São Francisco river, expected reservoirs level and the main uses authorized for the following year.			
▶ Hydromet stations operational and feeding into the water information system (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	10.00	10.00	10.00	83.00
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2022
Comments:	Total number of automatized hydromet stations that are funcional and regularly feeding intom the AESA information system.			



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Improve reliability of water services in the Agreste and Borborema regions

► Number of days with piped water in the benefitted cities of the Agreste and Borborema regions (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	98.00	98.00	98.00	328.00
Date	30-Nov-2017	28-May-2020	21-Dec-2020	31-Dec-2024
Comments:	Average number of days per year that municipalities benefiting from the Transparaíba Water Supply System (Curimataú and Cariri Branches) will have piped water supply.			

► Number of beneficiaries with reliable water services (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	235,000.00
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2023
Comments:	Urban population in the municipalities benefiting from the Transparaíba Water Supply Systems (Curimataú and Cariri branches) with reliable water services (water supplied in at least 80% of days per year)			

Increase operational efficiency of water and sanitation Services in the JPMR

► Non-Revenue Water reduced in the JPMR (Cubic meters/year, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	17,000,000.00
Date	31-Dec-2018	28-May-2020	21-Dec-2020	30-Jan-2026
Comments:	Reduction of non-revenue water in the JPMR, calculated in cubic meters per year. Current losses stand at an estimated volume of 45,000,000 m3/y, target losses estimated at 28,000,000 m3/y, resulting in a target of 17,000,000 m3/y of reduced water losses (or water saved).			

► Volume of pollution loads (BOD) discharges reduced in water bodies in the JPMR (Tones/year, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	3,200.00	3,200.00	3,200.00	9,600.00
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2024
Comments:	Reduction of pollution loads discharged by the wastewater treatment plant in the Paraíba river estuary, measured in tons of BOD per year.			

Intermediate Results Indicators by Components



Integrated Water Resources Management				
► AESA draft resolution with revised criteria for water rights is submitted to the State Water Resources Council (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2022
Comments:	AESA will submit to the State Water Resources Council a draft resolution redefining the criteria for issuing water rights, based on studies to be carried out under the project			
► AESA draft resolution with revised bulk water charges submitted to the State Water Resources Council (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2023
Comments:	AESA will submit to the State Water Resources Council a draft resolution redefining criteria and unit prices for water use charging, based on studies carried out under the project			
► Updated Paraiba River Basin plan submitted to the Paraiba River Basin Committee (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2023
Comments:	AESA will submit to the Paraiba River Basin Committee a draft Update of the Paraiba River Basin Plan, based on studies carried out under the project			
► Number of dams prioritized for future design in the Piranhas-Açu Basin (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	3.00
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2024
Comments:	SEIRHMA will prioritize at least three dams for future design in the Piranhas-Áçu river basin, based on the pre-feasibility studies of dams to be carried out under the project			
► Operation, Management and Emergency Preparedness Plans elaborated for existing dams in the Paraiba river basin (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	3.00
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2023



Comments: SEIRHMA will coordinate with DNOCS to elaborate O&M and EPP for the Pooeos, Camalau and Boqueirao dams, to be carried out and completed under the project

Improved Water and Sanitation Services Reliability and Efficiency

► Increased water treatment capacity in the Agreste and Borborema Regions (Cubic meters/year, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	23,000,000.00
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2024

Comments: The Carimatau and the Cariri water supply system will add a treatment capacity of 740 l/s at completion and operation, equivalent to 23 million of cubic meters per year of treated water

► Water distribution sectors zones implemented in João Pessoa Metropolitan Region (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	29.00
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2024

Comments: Ring fenced sector pressure zones will be installed in the water distribution network of the João Pessoa Metropolitan Region

► Energy efficiency increased in the wastewater system in João Pessoa Metropolitan Region (Megawatt hour(MWh), Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	8.90	8.90	8.90	4.10
Date	31-Dec-2018	28-May-2020	21-Dec-2020	30-Jun-2025

Comments: Energy demand for pumping and treatment in the Roger Wastewater System of JPMR is reduced in kilowatt-hour per cubic meter (kwh/m3) upon completion of the works and operation of the system

► Establishment and Functioning of Non-Revenue Water Management Program in CAGEPA (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2020

Comments: CAGEPA will issue a resolution establishing and make functional a Non-Revenue Water Management Program

► Establishment of social and environmental risk management system in CAGEPA (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes



Date	31-Dec-2018	28-May-2020	21-Dec-2020	30-Dec-2022
Comments:	CAGEPA will develop, establish and make functional a social and environmental risk management plan, based on studies financed under the project			
► Reduction of the time lost from routine activities because of waterborne and gastrointestinal diseases - MEN (Days, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	3.15	3.15	3.15	2.30
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2024
Comments:	A household survey in the municipalities benefiting from the Transparaiba Water Supply system will be carried out three times to collect data and to measuring the effect of increased water reliability on time spent caring for children and adults with water-borne diseases, disaggregated by gender. This indicator aims to measure changes in time spent by women and men with sickness and hospitalizations because of waterborne diseases.			
► Reduction of the gender gap in time spent with household workloads (including fetching water to the household) (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	73.00	73.00	73.00	53.00
Date	30-Jun-2020	28-May-2020	21-Dec-2020	30-Jun-2025
Comments:	A household survey in the municipalities benefiting from the Transparaiba Water Supply system will be carried out three times to collect data and to measuring the effect of increased water reliability on time spent with household workloads, disaggregated by gender.			
► Level of beneficiary satisfaction with project activities in the Transparaiba Water Supply System (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	80.00
Date	31-Dec-2018	28-May-2020	21-Dec-2020	30-Jun-2025
Comments:	Level of beneficiary satisfaction with project activities in the Transparaiba Water Supply System. This indicator is to measure changes in the level of satisfaction of water supply and sanitation services and its impacts on well-being through household surveys. It is calculated based on percentage of water users who are satisfied with the services, disaggregated by gender.			
► Grievances and claims addressed and resolved within the agreed time frame (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	80.00
Date	31-Dec-2018	28-May-2020	21-Dec-2020	30-Jun-2025
Comments:	Grievances and claims addressed and resolved within the agreed time frame			
► Reduction of the time lost from routine activities because of waterborne and gastrointestinal diseases - WOMEN (Days, Custom)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	3.48	3.48	3.48	2.30
Date	31-Dec-2018	28-May-2020	21-Dec-2020	31-Dec-2024
Comments:	A household survey in the municipalities benefiting from the Transparaiba Water Supply system will be carried out three times to collect data and to measuring the effect of increased water reliability on time spent caring for children and adults with water-borne diseases, disaggregated by gender. This indicator aims to measure changes in time spent by women and men with sickness and hospitalizations because of waterborne diseases.			

Performance-Based Conditions

Data on Financial Performance

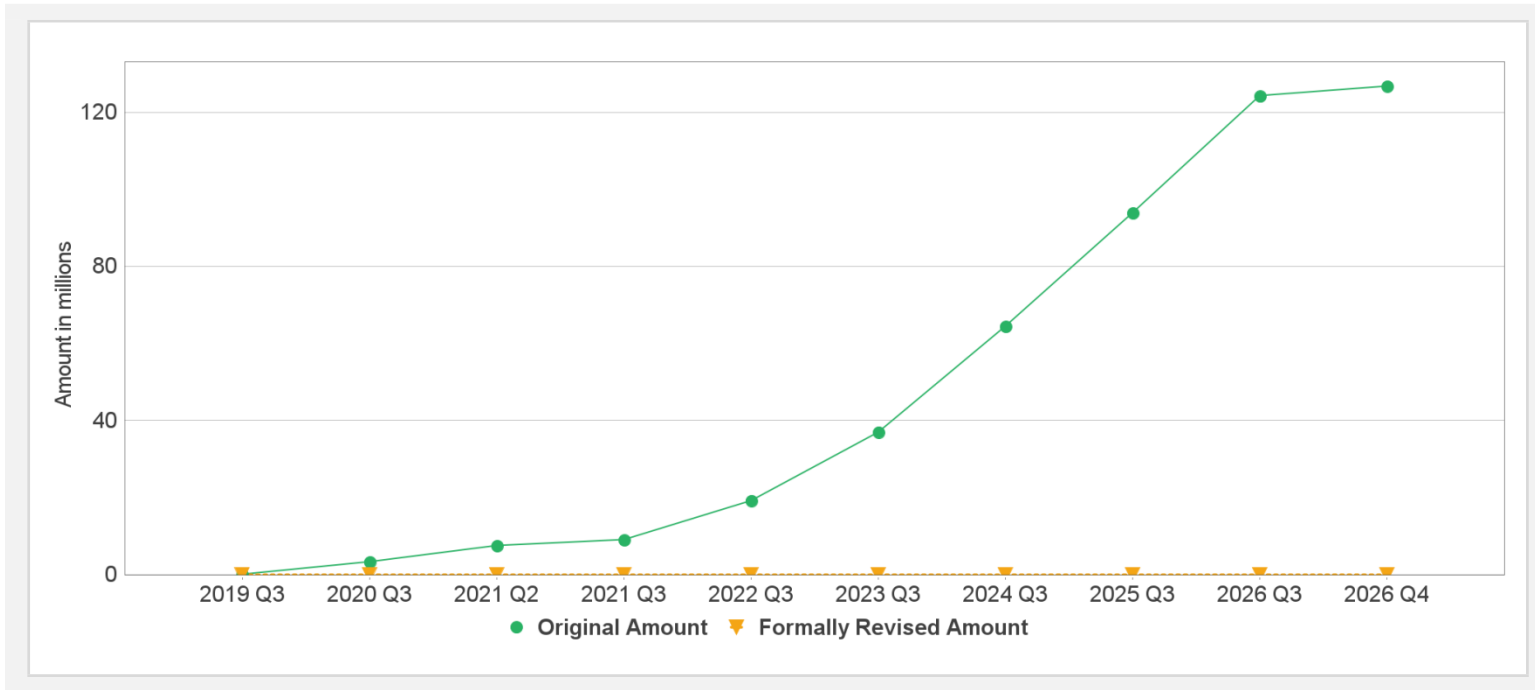
Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P165683	IBRD-89310	Not Effective	USD	126.89	126.89	0.00	0.00	126.89	0%

Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P165683	IBRD-89310	Not Effective	28-Feb-2019	01-Dec-2020	--	30-Jun-2026	30-Jun-2026

Cumulative Disbursements



PBC Disbursement

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

Restructuring History

There has been no restructuring to date.

Related Project(s)

There are no related projects.