



## Senegal River Basin Climate Change Resilience Development Project (P131323)

AFRICA WEST | Western Africa | Water Global Practice |

IBRD/IDA | Investment Project Financing | FY 2014 | Seq No: 14 | ARCHIVED on 07-Dec-2020 | ISR42613 |

Implementing Agencies: Organisation pour la Mise en Valeur du Fleuve Senegal, ADRS - Agence pour le Developpement Rural de la Vallee du Fleuve Senegal, DNGR - Direction Nationale du Genie Rural, SAED - Societe Nationale Amenagement et Exploitation des Terres du Delta du Fleuve Senegal, SONADER - Societe Nationale pour le Developpement Rural, Ministry of Finance, Republic of Guinea, Ministry of Economy and Finance, Islamic Republic of Mauritania, Ministry of Finance, Republic of Senegal, Ministry of Finance, Republic of Mali

## Key Dates

## Key Project Dates

Bank Approval Date: 05-Dec-2013

Effectiveness Date: 24-Jun-2014

Planned Mid Term Review Date: 22-Jan-2018

Actual Mid-Term Review Date: 22-Jan-2018

Original Closing Date: 30-Jun-2021

Revised Closing Date: 30-Dec-2022

## Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The overall Program Development Objective is: to enhance regional integration among the riparian countries of the Senegal River Basin through OMVS for multi-purpose water resources development to foster improved community livelihoods.

The MWRD2 Project Development Objective is: to improve coordinated management of water resources for socially, environmentally and economically sustainable development in the Senegal River Basin.

Responding to the needs of OMVS and riparian country governments MWRD2 will have broadly similar components to MWRD1: (i) consolidating and further strengthening the institutional, legal and technical framework of the Senegal River Basin to better serve all four riparian countries, (ii) expanding the scope or coverage of concrete water resources development activities at the local level that generate significant income to reduce poverty, and (iii) defining and preparing new multipurpose infrastructure to harness the hydropower potential identified in the basin. MWRD2 activities will primarily be located in the priority areas defined by studies in MWRD1. Each component will scale-up activities started under MWRD1, incorporating lessons learnt and taking forward successful elements for further development.

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

Yes

Board Approved Revised Project Development Objective (If project is formally restructured)

The revised MWRD2 PDO is to improve coordinated management of water resources in the Senegal River Basin.

The revised GEO is to strengthen OMVS capacity to integrate climate change into the coordinated management of water resources in the Senegal River basin.

In this context, "coordinated management" means the concerted development of water uses in the basin between OMVS member States which is ensured through two main mechanisms: (i) the Senegal River Basin Master Plan, approved by the Council of Ministers of the four member states in 2011: all activities financed by the project should be in accordance it and (ii) the regional Project steering committee (Comité Regional du Pilotage du PGIRE) with representatives from the 4 member states which approves the Project annual implementation plan and budget.



## Components Table

### Name

1. Institutional Development for Water Resources:(Cost \$19.11 M)
2. Multi-Purpose Water Resources Development:(Cost \$174.23 M)
3. Infrastructure Management and Planning:(Cost \$29.62 M)

## Overall Ratings

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

## Implementation Status and Key Decisions

The project closing date has been extended to December 31, 2022. Progress towards PDO has been raised to Satisfactory as Results are increasingly visible on the ground and outcome targets should be reached by project closing. Implementation progress remains moderately satisfactory. If expected progress on the ground materializes in the next 6 months, this rating will also be raised to Satisfactory. Given the constraints due to COVID-19, virtual supervisions continue to be regularly held with both the project implementation unit and national implementing agencies.

## Risks

### Systematic Operations Risk-rating Tool

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

## Results

### PDO Indicators by Objectives / Outcomes



Improve coordinated management of water resources in the Senegal River Basin				
► Direct project beneficiaries (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	3,895,000.00	4,500,000.00	4,500,000.00
Date	05-Mar-2013	26-May-2020	24-Nov-2020	31-Dec-2020
Comments:	This indicator has been met as all 4,5m mosquito nets financed by the projects have been distributed.			
□ Female beneficiaries (Percentage, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	51.00	51.00	51.00
► Direct project beneficiaries benefiting from the pilot activities to build climate resilience (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,812.00	4,800.00	5,000.00
Date	05-Mar-2013	26-May-2020	24-Nov-2020	30-Dec-2022
Comments:	GEF-funded climate resilience sub-projects are under implementation in the four countries. To date, 2 750 people benefitted of the pilots in Mauritania, 1 700 in Mali, 350 in Guinea. It is expected that this target will be largely exceeded by the time all pilots end (by June 2021) Amongst the activities more advanced there is the rehabilitation of aquaculture areas in Mali, support to nurseries in Guinea, distribution and training on improved seeds and agroforestry activities in Mauritania, and hydromet services and equipment of wells in Senegal.			
► Area provided with irrigation and drainage services (ha) (Hectare(Ha), Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6,799.00	6,846.00	10,000.00
Date	05-Mar-2013	26-May-2020	24-Nov-2020	30-Dec-2022
Comments:	The area provided with irrigation, 6799 ha (68% of the target), includes the completion of the works in the Boghe, Brakna and Trarza perimeters in Mauritania (1 467 ha), of the perimeter of Yedia, Ndombo Thiago, Orkadiere et A Ounaré and 100 ha of women's gardens in Senegal (5 369 ha) and 10 ha in Mali. All remain contracts are ongoing, including the recently launched works for the rehabilitation of the Grand Digue Tellel in Senegal, the largest remaining contract (3000 ha) which is expected to be completed by T1 2022. This indicator will be achieved by project closing.			
► The new framework for partition of costs and benefits in the river basin is finalized and presented to the CoM (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes



Date	05-Mar-2013	26-May-2020	24-Nov-2020	30-Dec-2022
Comments:	The contract with the consulting firm in charge of designing the new framework was signed in August 2018. The methodology for sharing the costs was validated by the Council of Ministers in April 2019. The new framework was expected to be presented to the Council of Ministers mid2020, but COVID-19 delayed the process (data collection and report validation had to be postponed and will start in December 2020). This indicator is expected to be achieved by the end of the project.			
► Improved tools are used in decision making on water allocation during the meetings of the Permanent Water Commission (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	01-Jan-2013	21-Nov-2019	24-Nov-2020	30-Dec-2022
Comments:	Diagnosis of the decision making tools (models) used by the OMVS carried out by the climate change vulnerability study delivered in June 2018; new model on water resources planning and allocation (WEAP) finalized; training of the involved actors carried out in July 2018; The Permanent Water Commission is using the new WEAP model.			
► Increased sale of fresh and processed fish in project sites (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	14.25	16.00	20.00
Date	02-Jan-2013	26-May-2020	24-Nov-2020	30-Dec-2022
Comments:	The works related to this indicators\ finished a few months ago in Mauritania, Mali, and Guinea; in Senegal, they are ongoing and they are expected to be completed by early 2021, following COVID-19 related delays. The trainings are ongoing and the beneficiaries are already using the completed sites. Because of this, it is expected that the sale of fresh and processed fish in the project sites will increase steadily in the remaining project duration.			
► The OMVS regional steering committee (Comité du Pilotage ) composed of representative from the riparian States is operational (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	02-Jan-2013	21-Nov-2019	24-Nov-2020	30-Dec-2022
Comments:	The OMVS regional steering committee has met annually and regularly approved the budget for the following year. It recently met in November 2020 and approved the PGIRE2's work plan and budget for CY2021.			

### Overall Comments

With the approved extension, all indicators are expected to be achieved.

### Intermediate Results Indicators by Components



## 1. Institutional Development

## ► New framework for partition of costs and benefits tested and validated at a technical level (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	05-Mar-2013	26-May-2020	24-Nov-2020	30-Dec-2022
Comments:	The contract for designing the new framework was signed in August 2018. The methodology proposed by the firm was validated by the Council of Ministers in April 2019. COVID-19 travel restrictions made it impossible to complete the data collection, which will take place between now and March. It is expected that this indicator will be achieved by September 2021.			

## ► Improved knowledge of climate change amongst the beneficiaries of the climate change adaptation/resilience training program delivered to OMVS, its National Cellules, and National Agencies (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	75.00
Date	05-Mar-2013	26-May-2020	26-May-2020	31-Dec-2020
Comments:	Face to face trainings of the High-Commissariat and the National Agencies took place between January and March 2019. An e-learning training took place in 2019 and early 2020. The online training ended at the end of April 2020, 310 participants completed the course, 100% with higher than 80/100 score.			

## 2. Multi-purpose Water Resources Development

## ► Operational entities in charge of the management of an irrigation system (with a statute and rules and that meet regularly) (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	8.00	8.00	25.00
Date	05-Mar-2013	26-May-2020	24-Nov-2020	30-Dec-2022
Comments:	Capacity building for the operationalisation of entities in charge of irrigation systems are ongoing in the irrigation areas where worked were completed. COVID related travel restrictions delayed this activity as field missions were suspended. However, based on the training programs prepared by the National Agencies, this indicator will be achieved by the end of the project. The project continues to monitor also the 8 entities already accounted for, to ensure that they remain active and to provide support when needed.			

## ► Proportion of target beneficiaries having received mass treatment to locally occurring NTDs (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	95.00	99.00	80.00
Date	05-Mar-2013	26-May-2020	24-Nov-2020	30-Jun-2021
Comments:	This indicator is measured annually. The evaluation of the 2019 campaigns reported a coverage between 100% of the basin population (In Guinea and Mali), 97% in Senegal, and 81% in Mauritania. Medications for the 2020 mass treatment campaign were received in 2020, but the distribution has not been possible yet due to the COVID pandemic.			



► Land area under sustainable land management practices (ha) (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2,300.00	3,053.00	3,000.00
Date	05-Mar-2013	21-Nov-2019	24-Nov-2020	30-Dec-2022
Comments:	The indicator has been met and exceeded. In Guinea, 853 ha have been reforested (155% of their target) and 50 ha were protected via mechanical interventions. Cashew was planted on 230 ha by local communities, with seeds provided by the project. In Mali, 2 050 have been completed (135% of the 1500 ha target) In Senegal, the activity is underway and to date, 100 ha have been completed (10% of target). The activity in Senegal will be completed by December 2021.			
► Long lasting insecticide treated malaria nets purchased and/or distributed (number) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	3,895,000.00	4,500,000.00	4,500,000.00
Date	02-Jan-2013	26-May-2020	01-Sep-2020	30-Jun-2021
Comments:	The indicator has been achieved. All LLIT mosquito nets were distributed in Guinea, Mali, in Mauritania, and Senegal.			
► Proportion of children sleeping under a LLIN (%) (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	74.00	84.00	84.00	80.00
Date	02-Jan-2013	26-May-2020	24-Nov-2020	30-Dec-2022
Comments:	This indicator is measured every year and it is the average utilization rate by three countries (Guinea and Senegal (>85%), and Mali (82%)), according to a 2019 survey. For Mauritania, a baseline survey will be conducted in early 2021, as the remaining nets were only distributed in September 2020.			
► Proportion of women (15-49 years old) sleeping under a LLIN (%) (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	65.00	79.00	79.00	80.00
Date	02-Jan-2013	26-May-2020	24-Nov-2020	30-Dec-2022
Comments:	This indicator is monitored annually. The 2019 survey conducted in Guinea, Mali, and Senegal reported an average utilization rate of 79%. To note the high utilization rate for Senegal, at 84%. Surveys in Mauritania will be conducted in early 2021.			

### 3. Infrastructure Management and Planning



► Mapping, modeling, and other analytical tools for WRM developed or updated (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	05-Mar-2013	26-May-2020	24-Nov-2020	30-Dec-2022
Comments:	<p>A WEAP model for the Senegal River Basin was designed and is being used by OMVS' Permanent Water Commission.</p> <p>Mapping contract ongoing - diagnostic completed and a first batch of additional satellite images have been bought to complete and update OMVS' mapping database. The final phase is ongoing, which concerns the development of thematic maps for the river basin. Validation meetings will be organized once the COVID-19 pandemic allows. SOGED is already able to use Sentinel images for the monitoring of typha, thanks to a project-financed training.</p> <p>This indicator will be achieved by the end of the project.</p>			

► Completed rehabilitation of the Diama dam (Yes/No, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	01-Jan-2013	26-May-2020	24-Nov-2020	30-Dec-2022
Comments:	<p>The rehabilitation works of the Diama dam should be completed by June 2021. An inspection of the dam will be organised when the works are completed.</p>			

## Performance-Based Conditions

### Data on Financial Performance

#### Disbursements (by loan)

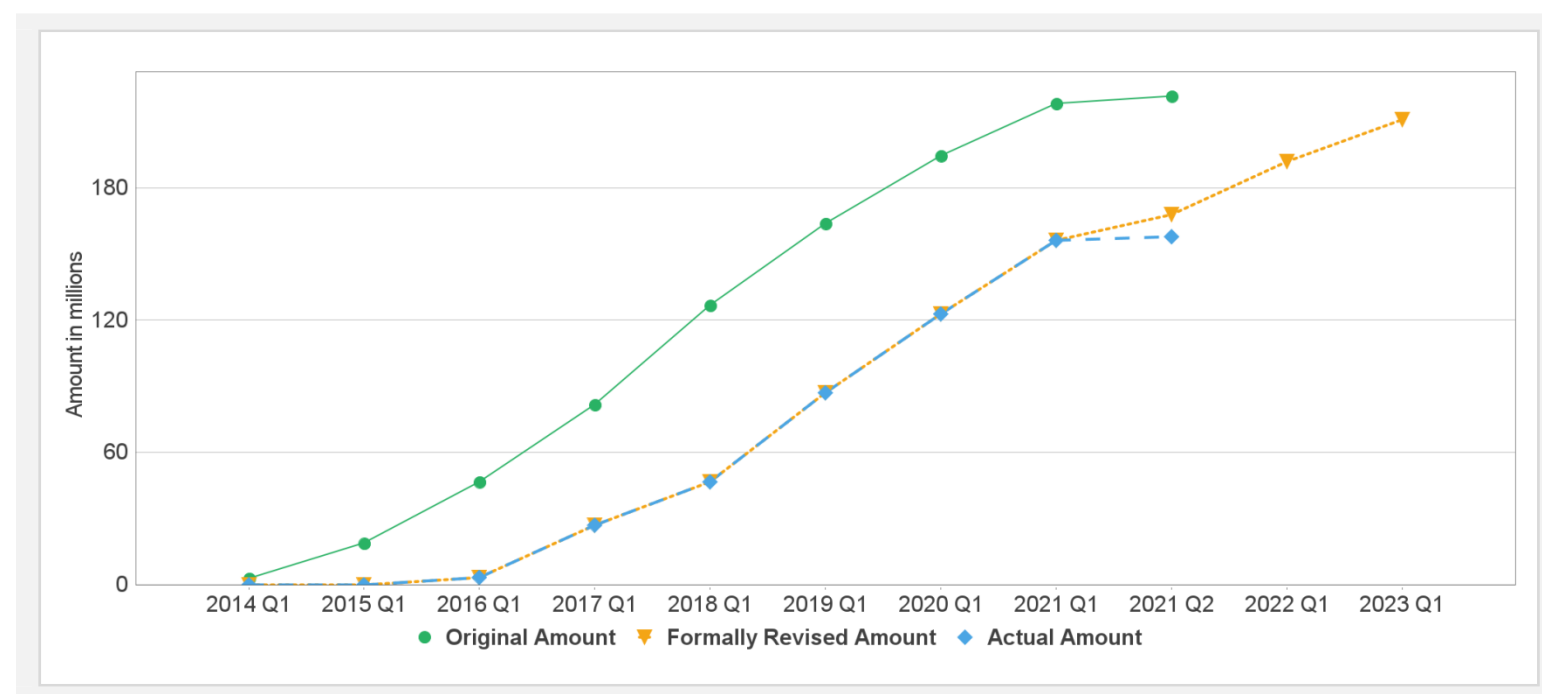
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P131323	IDA-53210	Effective	USD	58.50	58.50	0.00	42.97	10.18	81%
P131323	IDA-53220	Effective	USD	54.50	54.50	0.00	36.56	13.34	73%
P131323	IDA-53230	Effective	USD	71.00	71.00	0.00	46.29	18.58	71%
P131323	IDA-53660	Effective	USD	28.50	28.50	0.00	21.17	4.74	82%
P131353	TF-15949	Effective	USD	4.00	4.00	0.00	2.41	1.59	60%
P131353	TF-16001	Effective	USD	12.00	12.00	0.00	8.39	3.61	70%

#### Key Dates (by loan)



Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P131323	IDA-53210	Effective	05-Dec-2013	28-Mar-2014	24-Jun-2014	31-Dec-2020	30-Dec-2022
P131323	IDA-53220	Effective	05-Dec-2013	27-Feb-2014	24-Jun-2014	31-Dec-2020	30-Dec-2022
P131323	IDA-53230	Effective	05-Dec-2013	26-Feb-2014	24-Jun-2014	30-Jun-2021	30-Dec-2022
P131323	IDA-53660	Effective	05-Dec-2013	03-Mar-2014	24-Jun-2014	30-Jun-2021	30-Dec-2022
P131353	TF-15949	Effective	28-Mar-2014	28-Mar-2014	25-Jun-2014	30-Jun-2021	30-Dec-2022
P131353	TF-16001	Effective	28-Mar-2014	28-Mar-2014	25-Jun-2014	30-Jun-2021	30-Dec-2022

### Cumulative Disbursements



### Restructuring History

Level 2 Approved on 18-Sep-2019 ,Level 2 Approved on 10-Sep-2020

### Related Project(s)

P131323-Senegal River Basin Climate Change Resilience Development Project ,P131353-Senegal River Basin Climate Change Resilience Development Project