



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

Western and Central Africa | Western and Central Africa | Water Global Practice |  
IBRD/IDA | Investment Project Financing | FY 2014 | Seq No: 17 | ARCHIVED on 09-Jun-2022 | ISR51549 |

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

### 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	<span style="color: green;">□</span> Satisfactory	<span style="color: green;">□</span> Satisfactory
Overall Implementation Progress (IP)	<span style="color: orange;">□</span> Moderately Satisfactory	<span style="color: orange;">□</span> Moderately Satisfactory
Overall Risk Rating	<span style="color: orange;">□</span> Substantial	<span style="color: orange;">□</span> Substantial

## Implementation Status and Key Decisions

Progress towards PDO remains Satisfactory as results are increasingly visible on the ground and overall outcome targets are on track to be achieved by project closing. Implementation progress remains Moderately Satisfactory, due to delays in some irrigation works. As Covid-19 restrictions have been progressively lifted, a hybrid supervision mission took place in February and March 2022 and included irrigation site visits in Senegal and Mauritania and fisheries site visits in Guinea.

## Risks

### Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	<span style="color: orange;">□</span> Moderate	<span style="color: orange;">□</span> Moderate
Macroeconomic	--	<span style="color: orange;">□</span> Moderate	<span style="color: orange;">□</span> Moderate
Sector Strategies and Policies	--	<span style="color: green;">□</span> Low	<span style="color: green;">□</span> Low
Technical Design of Project or Program	--	<span style="color: green;">□</span> Low	<span style="color: green;">□</span> Low
Institutional Capacity for Implementation and Sustainability	--	<span style="color: orange;">□</span> Substantial	<span style="color: orange;">□</span> Substantial
Fiduciary	--	<span style="color: orange;">□</span> Moderate	<span style="color: orange;">□</span> Moderate
Environment and Social	--	<span style="color: red;">□</span> High	<span style="color: red;">□</span> High
Stakeholders	--	<span style="color: green;">□</span> Low	<span style="color: green;">□</span> Low
Other	--	--	--
Overall	--	<span style="color: orange;">□</span> Substantial	<span style="color: orange;">□</span> 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	4,500,000.00	4,500,000.00	4,500,000.00
Date	05-Mar-2013	19-Nov-2021	01-Jun-2022	01-Oct-2021
□ 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	8,552.00	8,552.00	5,000.00
Date	05-Mar-2013	19-Nov-2021	01-Jun-2022	30-Dec-2022
Comments:	GEF-funded climate resilience sub-projects are under implementation in the four countries. To date, 8,552 people benefitted of these pilots. It is expected that this target will be largely exceeded by the time all pilots end (by December 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	6,846.00	8,469.00	10,000.00
Date	05-Mar-2013	19-Nov-2021	01-Jun-2022	30-Dec-2022
Comments:	The area provided with irrigation, 8469 ha (85 % of the target). These 8469 ha include the completion of the works in the Boghe, Brakna and Trarza perimeters in Mauritania (3090 ha), of the perimeter of Ndombo Thiago, Orkadiere et A Ounaré , 100 ha of women's gardens, and the equipment in irrigation of the lowlands of Yedia, in Senegal (5 369 ha) and 10 ha in Mali. All remaining contracts are ongoing, including the works for the rehabilitation of the Grand Digue Tellel in Senegal, the largest remaining contract (3500 ha) where 93 percent of works had been done in March 2022, and completion is expected by end of the dry season in 2022. Despite delays in irrigation works in Mali and Guinea, this indicator is on track to be achieved by closing in December 2022.			
► 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	19-Nov-2021	01-Jun-2022	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, and the report with the data was validated in November 2021. The new framework was expected to be presented to the Council of Ministers mid-2020, but COVID-19 delayed the process (data collection and report validation had to be postponed and started in December 2020). <b><u>The revised allocation key will be presented to the Council of Ministers by early 2022. This indicator is expected to be achieved by the end of the project.</u></b>			
► 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	19-Nov-2021	01-Jun-2022	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	18.25	18.25	20.00
Date	02-Jan-2013	19-Nov-2021	01-Jun-2022	30-Dec-2022
Comments:	The works related to this indicators finished in December 2021 in Mauritania, Mali, and Guinea; in Senegal, they are ongoing and they are expected to be completed near end of 2022, following COVID-19-related delays. Beneficiaries are already using the completed sites, while training and capacity building are ongoing. Because of this, the sale of fresh and processed fish in the project sites are expected to increase steadily in the remaining project duration. Disaggregated data: 25% Guinea, 17% Mauritania, 19% Senegal and 12% Mali. The remaining of the project will focus on the soft activities to enhance the sustainability of these interventions.			
► 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	19-Nov-2021	01-Jun-2022	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 2021 and approved the PGIRE2's work plan and budget for CY2022.			

### Overall Comments

All indicators are expected to be achieved by closure in December 2022.

### 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	19-Nov-2021	01-Jun-2022	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. The data to be used were validated by Council of Ministers in November 2021, after delays due to COVID travel restrictions. It is expected that this indicator will be achieved by project closing.			

## ► 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	19-Nov-2021	01-Jun-2022	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. Given the positive experience, OMVS is now planning to do another round of e-learning.			

## 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	19-Nov-2021	01-Jun-2022	30-Dec-2022
Comments:	Capacity building for the operationalisation of entities in charge of irrigation systems are ongoing in the irrigation areas where works 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. A diagnostic has been completed in Guinea and activities will soon start there too.			

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

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	94.77	94.77	80.00
Date	05-Mar-2013	19-Nov-2021	01-Jun-2022	30-Jun-2021
Comments:	This indicator is measured annually. The evaluation of the 2021 campaigns reported a coverage 97% of the basin population in Guinea, 90% in Mali, 97% in Senegal, and 85,5% in Mauritania. The evaluation of 2020 campaigns is ongoing.			



► Land area under sustainable land management practices (ha) (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	3,256.80	3,256.80	3,000.00
Date	05-Mar-2013	19-Nov-2021	01-Jun-2022	30-Dec-2022
Comments:	The indicator has been met and exceeded. In Guinea, 903 ha have been reforested 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, 2216 ha have been completed. In Senegal 137.7 ha have been completed and the rest will be achieved by December 2021 (1000 ha target).			
► Long lasting insecticide treated malaria nets purchased and/or distributed (number) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4,500,000.00	4,500,000.00	4,500,000.00
Date	02-Jan-2013	19-Nov-2020	01-Jun-2022	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	88.00	88.00	80.00
Date	02-Jan-2013	19-Nov-2021	01-Jun-2022	30-Dec-2022
Comments:	This indicator is measured annually, and it reflects the average of utilization rate of Guinea 92.5% ; Mali 87% ; Senegal 90% in 2019 and in Mauritania 82% in 2021.			
► Proportion of women (15-49 years old) sleeping under a LLIN (%) (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	65.00	89.00	89.00	80.00
Date	02-Jan-2013	19-Nov-2021	01-Jun-2022	30-Dec-2022
Comments:	This indicator is monitored annually . Surveys results were: Guinea 93% ; Mali 87% ; Senegal 90% in 2019; and Mauritania 84% in 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	19-Nov-2021	01-Jun-2022	30-Dec-2022
Comments:	A WEAP model for the Senegal River Basin was designed and is being used by OMVS' Permanent Water Commission. The Mapping contract is ongoing - diagnostic completed and a first batch of additional satellite images have been procured to complete and update OMVS' mapping database. The final phase is ongoing, which concerns the development of thematic maps for the river basin. Cartography of 50 percent of the basin at a resolution of 1:150000 has currently been completed. SOGED is already able to use Sentinel images for the monitoring of typha, thanks to a project-financed training.			
► 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	19-Nov-2021	01-Jun-2022	30-Dec-2022
Comments:	The rehabilitation works of the <b><u>Diama dam should be completed by December 2021</u></b> . An inspection of the dam was organized when the works are completed, in 2022.			

## 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	50.61	2.52	95%
P131323	IDA-53220	Effective	USD	54.50	54.50	0.00	40.63	9.07	82%
P131323	IDA-53230	Effective	USD	71.00	71.00	0.00	61.24	3.50	95%
P131323	IDA-53660	Effective	USD	28.50	28.50	0.00	23.77	2.04	92%
P131353	TF-15949	Effective	USD	4.00	4.00	0.00	3.23	0.77	81%
P131353	TF-16001	Effective	USD	12.00	12.00	0.00	11.40	0.60	95%

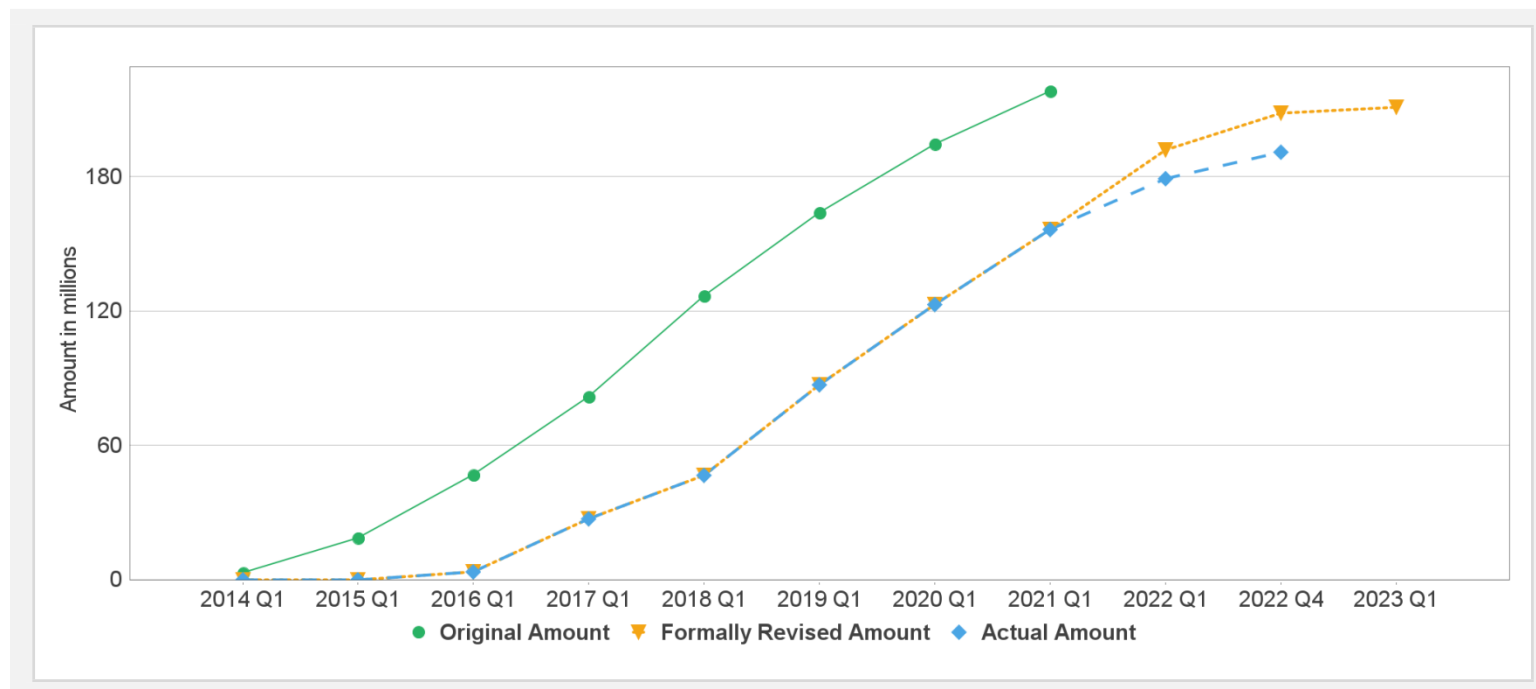
#### Key Dates (by loan)

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 29-Jul-2020

### Related Project(s)

P131353-Senegal River Basin Climate Change Resilience Development Project