



Nigeria Erosion and Watershed Management Project (P124905)

AFRICA | Nigeria | Environment, Natural Resources & the Blue Economy Global Practice |
IBRD/IDA | Investment Project Financing | FY 2012 | Seq No: 15 | ARCHIVED on 29-Jun-2020 | ISR42061 |

Implementing Agencies: Federal Ministry of Finance

Key Dates**Key Project Dates**

Bank Approval Date: 08-May-2012

Effectiveness Date: 16-Sep-2013

Planned Mid Term Review Date: 25-Jan-2016

Actual Mid-Term Review Date: 25-Jan-2016

Original Closing Date: 30-Jun-2020

Revised Closing Date: 30-Jun-2021

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

To reduce vulnerability to soil erosion in targeted sub-watersheds.

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

No

Components Table

Name

Component 1: Erosion and Watershed Management Infrastructure Investments:(Cost \$659.20 M)

Component 2: Erosion and Watershed Management Institutions and Information Services:(Cost \$74.99 M)

Component 3: Climate Change Response:(Cost \$50.38 M)

Component 4: Project Management:(Cost \$124.02 M)

Overall Ratings

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

Implementation Status and Key Decisions

Overall project disbursement from the signed International Development Agency (IDA) allocations is now at 90 percent. From July 1, 2019, the project disbursed (USD169 million) and project implementation continues to scale up.

Under **Component 1 - Erosion and Watershed Management Infrastructure Investments**, a total of 115 new site designs have been approved (including 103 detailed engineering designs, five additional works, and seven concept notes for emergency sites). The land area reclaimed in the immediate gully site micro-catchments has increased from 1,722 hectares in November 2019 to 2,201 hectares today due to additional gully reclamation and afforestation programs in six States. Sixteen States now have improved erosion risk maps. Improved catchment management



plans prepared for 31 sites across States (see <https://newmap.gov.ng/index.php/2020-project-data-validation-report-communication-audio-visuals/>). More than 165,000 people have received project-supported advisory support services in integrated land/water management practices, planning, and/or monitoring (42 percent female). Nearly 4,400 Project Affected Persons have been compensated across the initial seven Tier I States, and three Tier II states of Kogi, Delta and Akwa Ibom. More than 12,000 households have benefited from livelihood enhancement activities.

In **Component 2 - Erosion and Watershed Management Institutions and Information Service**, good progress has been made to build institutional and human capacities in relevant Ministries, Departments and Agencies. The project has installed 75 hydromet stations across the country which is disseminating valuable information to stakeholders. Two stormwater master plans have been completed for Onitsha in Anambra State, Aba and Abakaliki in Ebonyi State. The country's Environmental Impact Assessment process has been strengthened and streamlined.

Under **Component 3 - Climate Change Response**, a significant achievement has been the second issuance of Nigeria's second tranche of Sovereign Green Bond (for USD42 million) to finance climate change activities. Activities financed by the initial tranche of Green Bonds, such as solar plants in seven selected Federal Government Universities and a Renewable Energy Micro-Utility project in Torankawa community in Sokoto State, have been completed.

In **Component 4 - Project Management**, the Management Information System (MIS) has been put back on an operational footing. With reference to the global COVID-19 pandemic, physical works in sites have largely ceased in line with the Federal and State directives of lockdown. In sites where works are ongoing, permissions have been granted by the State Governments and adequate safety measures adhered to.

Dropped Actions:

- Signing of contract/MoU between Antrix/ISRO and FPMU and draft MOU for NASRDA as implementing partner was dropped as a result of bilateral backlogs between the two countries including approval requirements.
- World Bank and the Federal Ministry of Finance to engage with senior officials at EIB to resolve outstanding administrative/implementation issues was dropped pending further guidance from Management.
- Presentation prepared for the proposed Integrated Landscape Management Project, including identifying counterpart agencies, multi-sectoral approach, and geographical focus. This activity was dropped because, while the client carried out the presentation in Q1, the multi-sectoral approach, and geographical focus will be determined during project preparation.

Multiphase Programmatic Approach (MPA) Status

Risks

Systematic Operations Risk-rating Tool

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



Results

PDO Indicators by Objectives / Outcomes

To reduce vulnerability to soil erosion in targeted sub-watersheds.				
► Targeted gully complexes and other erosion sites treated with 100% of planned measures for targeted sub-watersheds (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	21.00	21.00	55.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	Twenty One (21) sites have been treated with 100% of planned measures ranging from slope stabilization, planting of grasses and trees, construction of drainage, road rehabilitation, earthworks, etc. Given the pace of the ongoing civil works in Tier 1 and 2 States, the project is on course towards achieving the set target.			
► Targeted gully complexes and other erosion sites with reduced severity level after treatment (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	29.00	33.00	55.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jul-2021
Comments:	33 sites have achieved at least 50% of works and have reduced in severity, this is an increase from 29 sites. The 4 more sites include Ebia River, Iyiokwu Abakaliki International Market, Udi Ozalla and Abidi Imoji. Given the pace of the ongoing civil works in Tier 1 and 2 States, the project is on course towards achieving the set target.			
► Area under bio-remediation in targeted sub-watersheds (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,235.96	1,432.79	400.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	During the period under review, the area increase from 1,235.96 to 1,432.79 hectares due to bio-remediation in Abia sites, including 100 hectares in Katsina, 50 hectares in Kano, 20 hectares in Sokoto, leading to further rehabilitation of degraded forest reserves. Bio-engineering is a major focus in the Project and is embedded in all designs. Activities cut across the Northern States, in addition to bio-engineering done when sites have been completed in Southern States.			
► Land area under sustainable landscape management practices (Hectare(Ha), Corporate)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,722.41	2,201.00	400.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	A total of 2,201 hectares have been reclaimed			



► Net Greenhouse Emissions (tones CO2 annually) (Tones/year, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	-2,411.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	Being a corporate result indicator, the indicator is focused on reducing greenhouse emissions especially linked to bio-remediation activities in targeted sub-watersheds. It will be measured at the end of the project.			

Overall Comments

A total of 2,201 (site specific) hectares have been reclaimed as compared to 1,722 hectares reported in November 2019. This represent increase of 479 hectares majorly from increment in Ebonyi State (155 hectares from Ebia River, Odunukwe and Iyioukwu international Market) and Edo State (32 hectares from Queen Ede and Ibore sites). From afforestation program, Kano achieved 50 ha, Katsina 100, Sokoto 20 ha, Gombe 10 ha as well as ongoing works in sites across Anambra and Enugu States. As the project moves towards its closing date, project impacts will be documented beyond the site-specific areas and on a watershed basis.

Intermediate Results Indicators by Components

Component 1: Erosion and Watershed Management Infrastructure Investments				
► Targeted land treated for erosion with selected measures in targeted sub-watersheds (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1,722.41	2,201.00	20,000.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	2,201 reflects land reclaimed under the project.			
► Participatory sub-watershed Management plans developed under the project for targeted erosion affected sub-watersheds (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	21.00	31.00	38.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	31 Participatory sub-watershed Management plans (CMPs) developed under the Project . Progress made include the development of 10 additional CMPs in Ebonyi (7) and Sokoto (3).			
► People receiving project-supported advisory support services in integrated land/water management practices, planning, and/or monitoring under the Project (of which 40% female) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	144,215.00	165,525.00	90,000.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	<p>Exceeded the end target of 90,000.00. The total figure for this indicator stands at 165,525 (57.7% Male and 42.2% Female) received Project advisory services under the project. This has improved knowledge in areas of erosion control, rain water harvesting, sustainable farming approaches, waste management among others. This also include staff of MDAs whose knowledge have been enhanced, as well as improved expertise on soil and water conservation, which is an integral aspect in line with implementing catchment management plans.</p> <p>During the mission an M&E clinic was conducted. The clinic reviewed that a total number of 144,215 persons have received project supported advisory services through hydromet information dissemination, catchment management plans developed with the beneficiaries, livelihood activities, rain water harvesting, sustainable land management including sustainable farming approaches and waste management. In addition to the communities, staff of MDAs also benefitted from trainings knowledge sessions on hydromet, soil and water conservation etc.</p> <p>The total surpasses the target of 90,000 to be achieved in the year 2021.</p>			
► Households benefitting from livelihoods enhancement activities under the Project (of which 40% female) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	9,318.00	12,417.00	12,000.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	<p>A validation mission carried out by the client during March of 2020 revealed that about 12,417 households are benefitting from livelihoods enhancement activities under the Project. This figure is a combination of households where CIG activities have been implemented (4,360), and then households that have benefited from distribution of clean cook stoves (8,057). Beneficiaries of CIGs have benefited from sub-grants. Some of the sub-grants livelihood activities include: tailoring, nurseries, gabion box welding, block molding, renting of chairs and canopy, palm oil production and processing, trading e.t.c. Most of these activities are carried out by the physically challenged. The indicator exceeded the end target of 12,000.00.</p>			
► Packages with detailed design for treatment of gully complexes and erosion sites in targeted subwatersheds prepared under the project that have received WBG No-Objection but not financed by NEWMAP (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	30.00
Date	27-Jun-2018	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	<p>This indicator tracks detailed design packages that will be left for Government to carry on erosion control beyond NEWMAP closure. Currently, 115 designs with no objections given.</p>			

Component 2: Erosion and Watershed Management Institutions and Information Services

► Spatial Knowledge Management Information System on erosion and watersheds operational (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	1.00	1.00



Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	A functional MIS including a spatial component exist at the FPMU. In addition, the project's GIS specialists consolidated a national geo-database on erosion and watershed management. The geo-database is expected to be linked to the upgraded MIS of the project.			
► Upgraded and newly installed stations providing data for integrated catchment planning (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	71.00	75.00	100.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	Currently, a total of 75 hydromet stations have been installed across Anambra-Imo River Basin Development Authority (AIRBDA) and Cross-River Basin Development Authority (CRBDA). These include: <ul style="list-style-type: none"> • 61 hydrological and meteorological stations, • 10 AFEWs and 4 underground water monitoring boreholes); and • 4 Underground water monitoring boreholes. 			
► City storm water master plans developed which are informed by climate projections of increased rainfall intensity and risk assessments (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	1.00	2.00	3.00	3.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	Stormwater Master Plan exist for Anambra and Ebonyi States under the project. Edo State was the baseline.			
► EIA guidelines developed for targeted investment types that affect erosion (road cross drainage, urban water supply and drainage) (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	ToRs for the development of EIA guidelines cleared.			
► National Centers of Excellence in erosion control established, operational and functional (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	3.00
Date	27-Jun-2018	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	Through the project, Federal University of Technology Owerri (FUTO) have received support on hydromet which is disseminating information for watershed management. The project is also in collaborations with the University of Lagos on Center of Excellence for Environmental and Social Safeguards. As soon as the eligibility criteria as developed by the project are met. The numbers will be updated accordingly.			
► States with improved erosion risk mapping (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target



Value	0.00	13.00	16.00	19.00
Date	27-Jun-2018	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	16 improved erosion risk maps exist in the project. Additional risk maps are being developed by Tier 2 and 3 States.			
► Community Interest Group collecting municipal solid waste in project intervention areas (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	1.00	50.00
Date	27-Jun-2018	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	One functional Community Interest Group (CIG) collecting municipal solid waste in project intervention areas exist in Nguzu Edda, Ebonyi State. Kogi State is in the process of establishing 18 CIGs for waste collection. Other States are gearing up on this. This indicator has been added to focus on solid waste collection in communities.			

Component 3: Climate Change Response				
► Technical reports/ guidelines on promoting low carbon development or enhancing climate resilience completed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	6.00	6.00	7.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	The reports on promoting low carbon development include: (i) NAMAS Report (National Appropriate Mitigation Actions on Climate Change) (ii) Off-Grid Solar Power Feasibility Study Report (iii) Climate data Management System Report (iv) Baseline Survey of Clean Cook Stoves (v) Report for installation of Low Carbon Bakery in Jigawa State (vi) LPG as a Low Carbon alternative to Firewood and Kerosene. The client is currently working on a report "Greening the economy: Case study Nigeria's Sovereign Green Bonds" including other relevant technical reports.			
► Climate adaptation /low carbon demonstration projects completed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	5.00	5.00	10.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	The demonstration projects include distribution of (i) Bio-ethanol gel stove (ii) Wood Efficient Stove (iii) Briquettes Stove (iv) Institutional Cook Stoves and installation of (v) Fuel Efficient Bakery in Jigawa State. The FPMU is in the process of completing a number of demonstration projects across the country.			
► Development and Issuing of Green Bond Phases (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	1.00	2.00	1.00



Date	27-Jun-2018	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	Two tranches of Green Bonds issuance supported by the project. The Green Bonds will support the country in meeting its NDC commitments of 20% unconditional -> 45% conditional emission reduction by 2030.			

Component 4: Project Management				
► Reports produced on project progress at federal and state levels (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	19.00	19.00	18.00
Date	08-May-2012	18-Nov-2019	15-Jun-2020	30-Jun-2021
Comments:	19 States (Anambra, Abia, Cross River, Ebonyi, Edo, Enugu, Imo, Delta, Gombe, Kano, Kogi, Plateau, Sokoto, Akwa Ibom, Borno, Katsina, Nasarawa, Niger and Ondo) are currently submitting progress reports.			

Overall Comments

The Development Objective (DO) and Implementation Progress (IP) continue to be rated as Satisfactory.

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P124905	IDA-51050	Effective	USD	500.00	500.00	0.00	451.10	0.00	100%
P124905	IDA-62770	Effective	USD	300.00	300.00	0.00	276.54	11.35	96%
P124905	IDA-62780	Effective	USD	100.00	100.00	0.00	27.25	72.75	27%
P126549	TF-12434	Effective	USD	3.96	3.96	0.00	3.83	0.13	97%
P126549	TF-12435	Effective	USD	4.63	4.63	0.00	4.62	0.01	100%

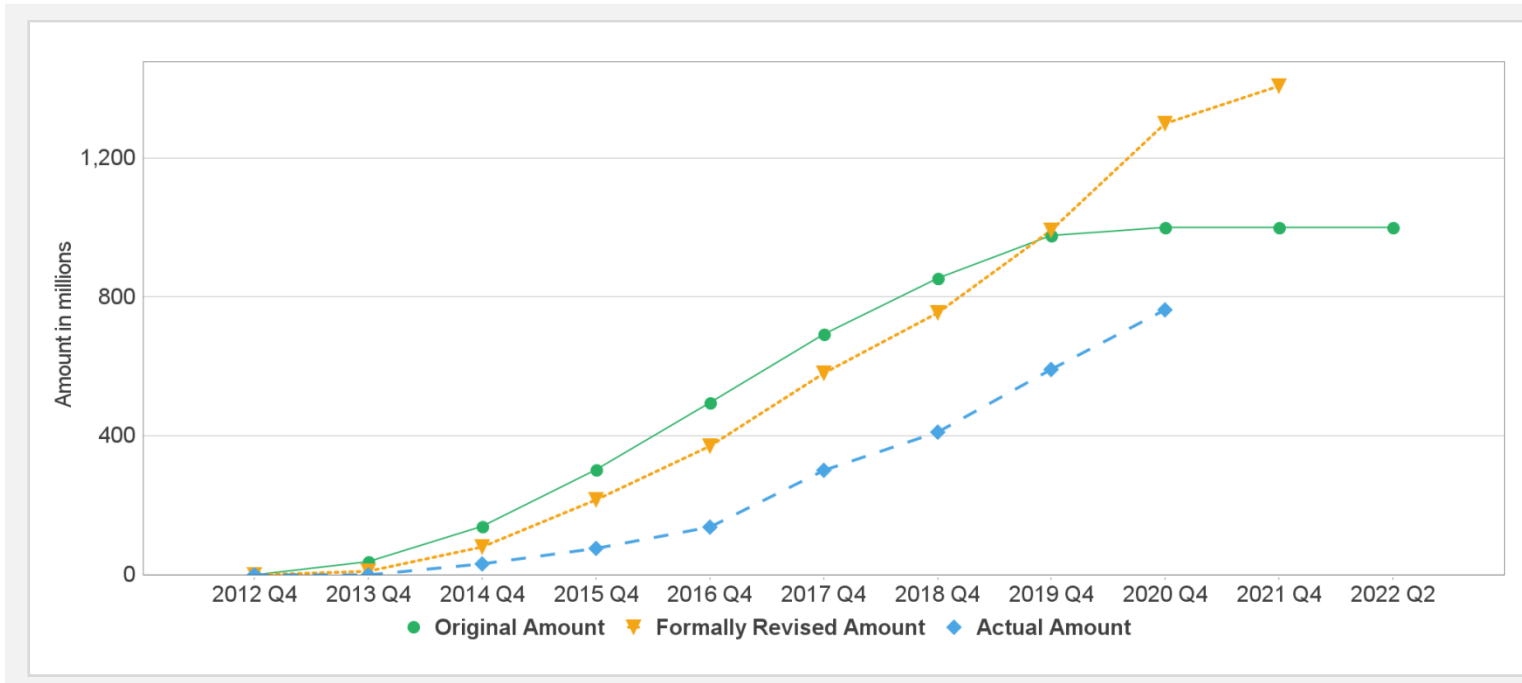
Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
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P124905	IDA-51050	Effective	08-May-2012	16-Apr-2013	16-Sep-2013	30-Jun-2020	30-Jun-2021
P124905	IDA-62770	Effective	27-Jun-2018	12-Feb-2019	27-May-2019	30-Jun-2021	30-Jun-2021
P124905	IDA-62780	Effective	27-Jun-2018	12-Feb-2019	27-May-2019	30-Jun-2021	30-Jun-2021
P126549	TF-12434	Effective	16-Apr-2013	16-Apr-2013	16-Apr-2013	30-Jun-2020	30-Jun-2020
P126549	TF-12435	Effective	16-Apr-2013	16-Apr-2013	16-Apr-2013	30-Jun-2020	30-Jun-2020

Cumulative Disbursements



Restructuring History

Level 2 Approved on 27-Apr-2018

Related Project(s)

P126549-Nigeria Erosion and Watershed Management Project ,P164082-Nigeria Erosion and Watershed Management Project (NEWMAP) - Additional Financing