



## Sustainable Land and Water Management (P098538)

AFRICA | Ghana | Environment & Natural Resources Global Practice |  
Global Environment Project | Investment Project Financing | FY 2011 | Seq No: 17 | ARCHIVED on 17-Apr-2019 | ISR36443 |

Implementing Agencies: Republic of Ghana, Ministry of Finance, Ministry of Environment, Science, Technology and Innovation (MESTI)

### Key Dates

#### Key Project Dates

Bank Approval Date: 30-Nov-2010

Effectiveness Date: 09-Mar-2010

Planned Mid Term Review Date: 31-Oct-2013

Actual Mid-Term Review Date: 31-Jan-2014

Original Closing Date: 30-Nov-2020

Revised Closing Date: 30-Nov-2020

### Project Development Objectives

Project Development Objective (from Project Appraisal Document)

Project Development Objective is to (a) demonstrate improved sustainable land and water management practices aimed at reducing land degradation and enhancing maintenance of biodiversity in selected micro-watersheds, and (b) strengthen spatial planning for identification of linked watershed investments in the Northern Savannah region of Ghana.

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

Yes

Board Approved Revised Global Environmental Objective (If project is formally restructured)

To expand the area under sustainable land and water management practices in selected watersheds.

### Components

Name

Capacity Building for integrated spatial planning:(Cost \$0.94 M)

Land and Water Management:(Cost \$26.59 M)

Project Management and Coordination:(Cost \$2.14 M)

### Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	● Moderately Satisfactory	● Moderately Satisfactory
Overall Implementation Progress (IP)	● Moderately Satisfactory	● Moderately Satisfactory
Overall Risk Rating	● Moderate	● Moderate

### Implementation Status and Key Decisions

This is a multi-sectoral project implemented across four sectors i.e. Environment, Forestry/ Wildlife, Agriculture and Local Government and coordinated by the Ministry of Environment, Science, Technology and Innovation. The governance structures at all levels to facilitate effective



project implementation [Project Steering Committee (at the National Level), Local Steering Committee, Technical Coordination Office (at the Regional Level), District Watershed Planning Teams, Community Watershed Management Teams, Community Resource Management Committees, CREMA Executive Committees] are functioning well.

Project overall performance is Moderately Satisfactory. As per March 2019 IS mission, the project overall continues to demonstrate good progress on implementation of the core SLWM activities and continues to show an increasing demand for adoption of SLM practices. Key achievements in 2018 include:

- A total of 247 communities, about 27,011 farmers, in the 12 project districts undertook watershed planning exercises, of which 36 communities have completed the plans for implementation in 2019.
- 65 Village Loan and Saving Associations (VLSA) established and 50 boxes and 1500 passbooks were supplied to new VLSA groups, as a result, 22 VLSA groups in 19 communities in 3 Districts have saved an amount of GHS 60,311.30.
- Payment for Environment Services (PES) pilots showed encouraging initial results on seedling survival and many farmers replacing (at their own cost) the seedlings that have died. PES is being piloted in 24 communities.
- Activities for the formation and establishment of CREMAs (covering 600,995ha in over 7 districts) in the Western Corridor of the three northern regions have been completed and a corridor-wide management plan encompassing the six CREMAs with specific action plans has been prepared.  
The following key issues remain valid :
- Provide the relevant documents to the WB, for the completion of the final negotiation stages for CREMA establishment, which will support upgrading the rating.
- Mapping of the overall project sites by communities remains pending, though the project team has advanced on detailed mapping of some data for 2016
- Provide the 2018 sub-project screening results for review and feedback.
- Explore design options for shea roasting oven to improve the burn efficiency of firewood in line with ensuring environmental health and safety recommendations for works contracts.
- While some records are available, a systematic way of recording the impact on crop yields is needed and should be included in the future progress reports.

## Risks

### Systematic Operations Risk-rating Tool

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

## Results


**PDO Indicators by Objectives / Outcomes**

Improved sustainable land and water management practices				
<b>►Land area where sustainable land mgt. practices were adopted as a result of proj (Hectare(Ha), Corporate)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	10,698.70	10,992.24	15,000.00
Date	01-Jul-2010	31-Oct-2018	15-Mar-2019	30-Nov-2020
Comments:	Added 3,653.64 ha in 2018.			
<b>►Land users adopting sustainable land mgt. practices as a result of the project (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	26,696.00	27,011.00	30,000.00
Date	01-Jul-2010	31-Oct-2018	15-Mar-2019	30-Nov-2020
<b>►Management Effectiveness Tracking Tool score: Gbele Resource Reserve and Sanyiga Kasena Gavara Kara (SKGK), Moagduri Wuntanluri Kuwesaasi, Balsa Yening, Wahabu Wiasi, and Gbele-Mole corridor sites (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	45.00	0.00	0.00	80.00
Date	01-Jul-2010	31-Oct-2018	31-Oct-2018	30-Nov-2020
Comments:	This indicator is tracked through the following sub-indicators (see below). An overall average score will be calculated at the end of the project. During the course of the project CREMA sites 2 and 3 were split into two (2a, 2b, 3a, 3b). The scores are maintained as before with no addition to values reported during this mission.			
<b>▲Gbele Resource Reserve (Number, Custom Supplement)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	45.00	70.00	70.00	87.50
<b>▲Sanyiga Kasena Gavara Kara Corridor Site (CREMA Site 1) (Number, Custom Supplement)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	28.00	29.00	29.00	61.70
<b>▲Sissala Kasena Fraah Corridor Site (CREMA Site 2a) (Number, Custom Supplement)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	21.00	24.00	24.00	80.00
<b>▲Bulkawe Corridor Site (CREMA Site 2b) (Number, Custom Supplement)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	21.00	24.00	24.00	80.00
<b>▲Moagduri Wuntanluri Kuwesaasi Corridor Site (CREMA Site 3a) (Number, Custom Supplement)</b>				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	21.00	24.00	24.00	80.00
<b>▲Balsa Yening Corridor Site (CREMA Site 3b) (Number, Custom Supplement)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	21.00	24.00	24.00	80.00
<b>▲Chakali Sungmaaluu Corridor (CREMA Site 4) (Number, Custom Supplement)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	21.00	23.00	23.00	76.70
<b>▶Direct project beneficiaries (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	48,498.00	57,595.00	60,000.00
Date	01-Jul-2010	31-Oct-2018	15-Mar-2019	30-Nov-2020
<b>▲Female beneficiaries (Percentage, Custom Supplement)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	55.50	55.00	40.00

### Intermediate Results Indicators by Components

<b>Component 1: Capacity Building for Integrated Spatial Planning</b>				
<b>▶Integrated spatial development framework produced for Northern Savannah zone (Text, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	Yes	Yes
Date	01-Nov-2010	31-Oct-2018	31-Oct-2018	28-Feb-2018
Comments:	Activity completed.			
<b>▶Pre-feasibility studies conducted for new large-scale multi-purpose water storage investments (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	10.00	10.00
Date	30-Jul-2010	31-Oct-2018	15-Mar-2019	28-Sep-2018
Comments:	As recorded in the AM and ISR of September 2017, the pre-feasibility studies for two large dams were replaced with reconnaissance surveys for ten small dams owing to failure of SADA to deliver on results. MESTI as a lead Implementing Agency who took responsibility for the activity has completed the ten reconnaissance surveys which are currently under WB review			



Component 2: Land and Water Management				
<b>►Communities with Community Watershed Development Plans consistent with the Watershed Development Planning Manual (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	211.00	247.00	244.00
Date	30-Jul-2010	31-Oct-2018	15-Mar-2019	30-Nov-2020
<b>►Demonstration plots established in the target watersheds (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	260.00	260.00	282.00
Date	30-Jul-2010	31-Oct-2018	15-Mar-2019	15-May-2019
Comments:	The target for the base project has been met but the additional financing target is proceeding on track.			
<b>►Targeted CREMA communities adopting management plans according to criteria defined in CREMA agreements (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	88.00	88.00	98.00
Date	30-Jul-2010	31-Oct-2018	15-Mar-2019	30-Nov-2020
<b>►A study on feasibility of sustaining SLWM activities through PES market mechanism (Text, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	Yes	Yes
Date	30-Jul-2010	31-Oct-2018	31-Oct-2018	28-Feb-2018
Comments:	A PES strategy is in place (study completed) and the PES mechanism is being tested on the ground.			
<b>►Area reforested [within target forest reserves] (Hectare(Ha), Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	990.00	990.00	1,060.00
Date	01-Jul-2010	31-Oct-2018	15-Mar-2019	30-Nov-2020
<b>►Forest area brought under management plans (Hectare(Ha), Corporate)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	72,716.00	72,716.00	72,716.00
Date	01-Jul-2010	31-Oct-2018	15-Mar-2019	28-Feb-2018
<b>►Normalized Difference Vegetation Index (NDVI) in target areas (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	-0.13	0.00	0.00	-0.13



Date	02-Jun-2014	31-Oct-2018	15-Mar-2019	30-Nov-2020
Comments:	Current values are - 0.11 to - 0.81. This indicator is measured at the start and end of project.			
<b>►Community governance structures established, trained and operational (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	115.00	304.00	304.00	347.00
Date	26-Jan-2016	31-Oct-2018	15-Mar-2019	30-Nov-2020
<b>▲- CREMA Executive Committees (Number, Custom Breakdown)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	3.00	6.00	6.00	5.00
Date	26-Jan-2016	31-Oct-2018	15-Mar-2019	30-Nov-2020
<b>▲-Community Watershed Management Teams (Number, Custom Breakdown)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	72.00	210.00	210.00	244.00
Date	26-Jan-2016	31-Oct-2018	15-Mar-2019	30-Nov-2020
<b>▲- CREMA Resource Management Committees (Number, Custom Breakdown)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	40.00	88.00	88.00	98.00
Date	26-Jan-2016	31-Oct-2018	15-Mar-2019	30-Nov-2020
<b>►Forest users trained (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	821.00	821.00	660.00
Date	21-Feb-2016	31-Oct-2018	15-Mar-2019	30-Nov-2020
<b>▲Forest users trained - Female (Number, Custom Breakdown)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	262.00	262.00	330.00
Date	21-Feb-2016	31-Oct-2018	15-Mar-2019	30-Nov-2020
<b>►Beneficiaries that feel project investments reflected their needs (percentage) (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	70.00
Date	21-Feb-2016	31-Oct-2018	15-Mar-2019	30-Nov-2020
Comments:	This survey is pending and is expected to be done end of 2019.			



<b>▲Beneficiaries that feel project inv. reflected their needs - female (number) (Number, Custom Supplement)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	8,540.00
<b>▲Total beneficiaries - female (number) (Number, Custom Supplement)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	12,200.00
<b>▲Total beneficiaries - male (number) (Number, Custom Supplement)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	18,300.00
<b>▲Beneficiaries that feel project inv. reflected their needs - male (number) (Number, Custom Supplement)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	12,810.00
<b>▶New areas outside protected areas managed as biodiversity-friendly (ha) (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	39,107.00	600,995.71	600,995.71	417,299.00
Date	21-Feb-2016	31-Oct-2018	15-Mar-2019	30-Nov-2020
Comments:	Value determined from actual GIS mapping after formation of the CREMA.			
<b>▶Smallholder households supported in coping with the effects of climate change [in 76 communities under AF2] (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	37.00	0.00	3,000.00
Date	26-Jan-2016	31-Oct-2018	15-Mar-2019	30-Nov-2020
Comments:	Data is currently being compiled and therefore target number was not reported during this mission.			
<b>Component 3: Project Management and Coordination</b>				
<b>▶Project M&amp;E system providing required reports and data in a timely manner (Text, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	--	Yes	Yes
Date	01-Nov-2010	31-Oct-2018	15-Mar-2019	30-Nov-2020



## Data on Financial Performance

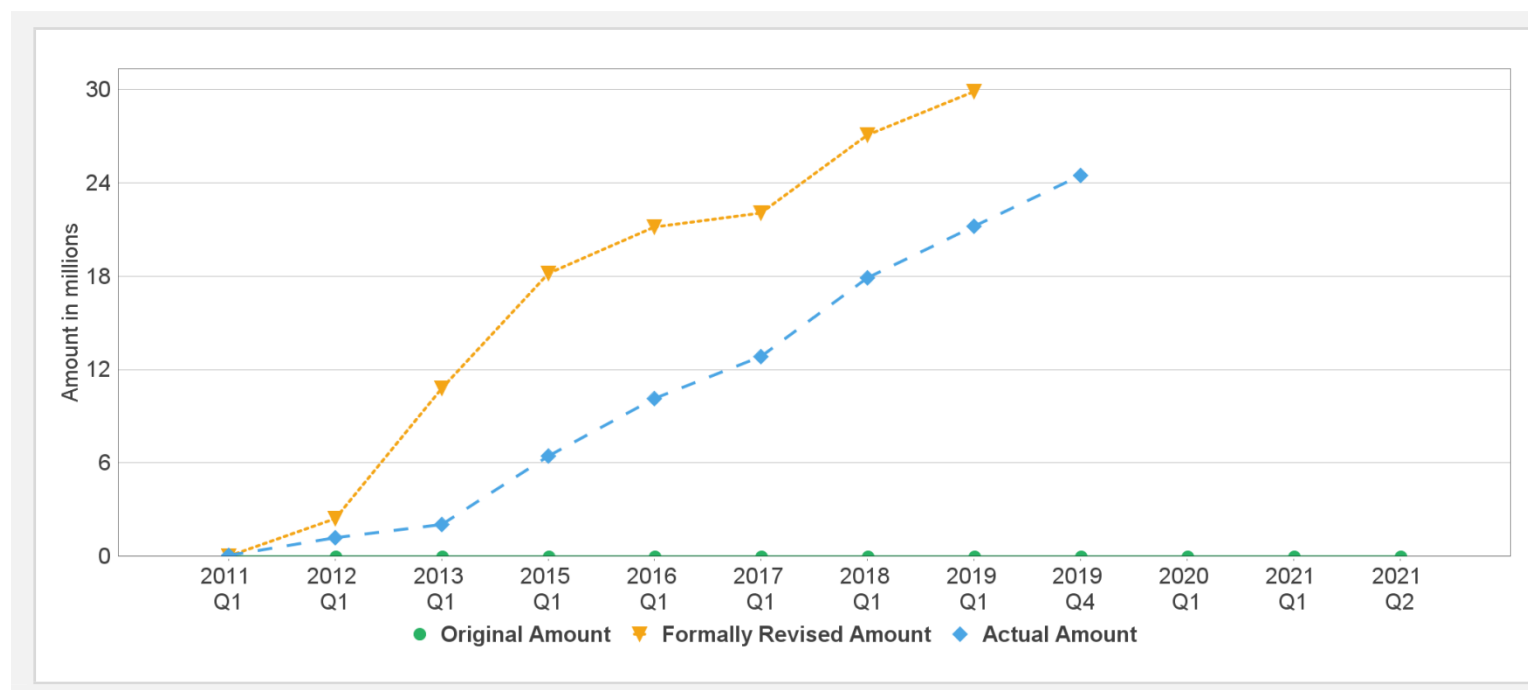
### Disbursements (by loan)

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P098538	TF-17090	Effective	USD	8.75	8.75	0.00	8.71	0.04	100%
P098538	TF-95451	Closed	USD	0.20	0.20	0.00	0.20	0.00	100%
P098538	TF-97579	Closed	USD	8.15	7.99	0.16	7.99	0.00	100%
P098538	TF-A2276	Effective	USD	12.77	12.77	0.00	7.57	5.20	59%

### Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P098538	TF-17090	Effective	03-Nov-2014	03-Nov-2014	03-Nov-2014	28-Feb-2018	30-Nov-2020
P098538	TF-95451	Closed	22-Feb-2010	09-Mar-2010	09-Mar-2010	14-Oct-2010	14-Oct-2011
P098538	TF-97579	Closed	20-Jan-2011	20-Jan-2011	20-Jan-2011	15-Feb-2016	28-Feb-2018
P098538	TF-A2276	Effective	20-May-2016	06-Jun-2016	06-Jun-2016	30-Nov-2020	30-Nov-2020

### Cumulative Disbursements







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## Restructuring History

There has been no restructuring to date.

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## Related Project(s)

P132100-Sustainable Land and Water Management ,P157595-Ghana: Second Additional Financing for Sustainable Land and Water Management Project

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