

# **Sustainable Actions for Green Economy (SAGE) in The Gambia**



Proposal

<b>Region:</b>	North Bank Region, Greater Banjul Area, and Kanifing Municipality	
<b>Intervention Title:</b>	Sustainable Actions for Green Economy (SAGE) in The Gambia	
<b>Implementing Organization:</b>	Fortress of Development for Africa (FDA)	
<b>Goal/Objectives:</b>	The primary goal of SAGE is to train 100 Green Ambassadors, and aims to plant 1,000 Multi-Purpose Fast Growing (MPFG) trees in 6 communities and produce 500 Energy Efficient Cook Stoves	
<b>Beneficiaries:</b>	Women, youth, CBO,s , rural and urban communities	
<b>Duration:</b>	January to December 2020	
<b>Funds Requested:</b>	(Fifty nine thousand seven hundred and forty dollars)	<b>USD 59,740</b>

## Introduction

### **FDA**

Fortresses of Development for Africa was established in line with African Union Agenda, promoting diversification towards economic, social and cultural sectors with long-term potential and in other to create a platform that can add huge value to people and society providing opportunities to develop sustainable solution.

It is a stepping stone to involvement in the conservation of the genetic resources of the earth aimed at supporting efforts to promoting sustainable development through intervention in Agriculture, Energy, Environment, Education & Entrepreneurship and Peace & Social Justice.

## Overview

Sustainable Actions for Green Economy (SAGE) is an intervention plan to compliment efforts of the government, development partners and other organisations in addressing challenges of energy and the environment with crosscutting issues of deforestation, food insecurity and climate change.

SAGE special focus is on sustainable cooking energy solution, tree planting, community gardening, waste management and sensitization on climate change. It will train 100 people to become Green Ambassadors.

SAGE aims to plant 1,000 Multi Purpose Fast Growing (MPFG) trees and produce 500 Energy Efficient Cook Stoves (EECS) to reduce fuel wood and charcoal consumption for energy purpose, reduction of budget for fuel wood and charcoal in households and also CO2 emission reduction.

SAGE will also encourage the adoption of dumpsites and covert them to community gardens, composting and the use of Bio-char and popularized the importance of community participation in addressing the issue of food insecurity and climate change.

SAGE is also designed to build communities where a safe, nutritious, ample and affordable food supply is produced by a legion of family farmers who make a decent living pursuing their trade, while protecting the environment, and contributing to the strength and stability of their communities.

### **Needs analysis**

The Gambia derives its energy principally from two (2) sources: fuel wood and petroleum products. The fuel wood sources comprise firewood and wood charcoal. According to the average energy consumption of the country (1990 – 2010), fuel wood accounts for almost 80% of total energy consumed. Petroleum products are the second most important source accounting for about 19% in 2010, while electricity consumption accounts for less than 3% and renewable energy account for less than 0.1%.

Over the years rapid growth in population as well as urbanization has continually contributed to deterioration of the environment. The natural forest continues to disappear or at least deteriorate due to high demand for fuel wood and charcoal which has led to increase felling of tree. In the country, current situations indicate that carbon dioxide emissions have been dominated by the energy sector (for which charcoal and the use of firewood for cooking constitute the most significant sources).

Climate change is unarguably the biggest environmental issue of our time; climate change no doubt portends serious challenges for Gambia to achieve its development targets. The Gambia continues to face food security challenges, including low agricultural productivity and high costs of production due to climate change. Other reasons for low agricultural productivity are lack of materials like seeds, tree seedlings, and lack of capacity on modern techniques are all factors that are hindering bountiful agricultural productivity.

### **Motivation and Approach**

We recognized the enormous challenges of energy and environmental pollution, also considered the negative environmental impacts, health costs of burning wood and charcoal for energy and the steadily increasing demand for energy in the country, depletion of forest resources, climate change and food insecurity.

This being the case, Fortress of Development for Africa (FDA) desires to embarks on SAGE and involve youth, women and communities in the process to avert the crippling energy crisis, environmental degradation, issues of deforestation, climate change and food insecurity in The Gambia to create sustainable development.

SAGE will contribute in addressing the issues mentioned above especially the very pertinent challenge of climate change, energy and food insecurity by **training people to become**

**Green Ambassadors** in tree planting, production, and distribution of Energy Efficient Cook Stoves which have been proven to reduce consumption of wood and charcoal by 50 percent.

This intervention also aims to conduct basic training on composting and Bio-char production and assist households and small-scale farmers by providing improved seeds, seedlings and capacity building.

### **Goal/Objectives**

The primary goal of SAGE is to train 100 people as Green Ambassadors, which will be responsible for spreading awareness in their communities as peer influence is a very effective factor in rousing interest and enthusiasm in the community.

Other objectives are:

- a. To Plant 1,000 Muti Purpose Fast Growing trees.
- b. To produce 500 Energy Efficient Cook Stoves (EES)
- c. To convert illegal dumpsites to community gardens To provide access to efficient and affordable (EECS) to households.
- d. To reduce deforestation and the amount of money spent on firewood and charcoal daily by 50%.
- e. To encourage compost and Biochar production.
- f. To reduce CO2 emission reductions.
- g. To conserve the Environment.
- h. Improve the health of the people especially women and youth (reduce cooking smoke related disease risks).
- i. To strengthen the productive capacity of the youth and women.
- j. To improve income generating opportunities at the household and community levels.
- k. To create and sustain energy efficient stove and horticultural local industry.

### **Activities**

#### **Support to Mobilization and Facilitation**

Survey, formation and strengthening of beneficiaries: -

1. Baseline survey
2. Identification of beneficiaries
3. Community Sensitization
4. Radio Sensitization program.
5. Covert illegal dumpsites to community gardens.

#### **Training, Nursery, Processing, Production, Marketing**

6. Training of Green Ambassadors
7. Stove fabrication, installation, and finishing
8. Stove Distribution Plan
9. Tree Planting
10. Compost and Bio-char production
11. Group dynamics, Business Management and Entrepreneurship

#### **Support to implementation Management**

Establishment and support to the Steering Committee, Implementation Unit and engagements required for the implementation: -

12. Provision of all the necessary facilities and tools.
13. Preparation of regular and comprehensive Work Program and Budget
14. Preparation of Progress Report
15. Set up Monitoring and Evaluation (M&E) system for the implementation, including the generation of monitoring indicators for the tracking of the major activities,.
16. review and planning meeting
17. Conduct of Audit exercises

### **Mechanism for assessing Performance (Monitoring & Evaluation Plan)**

- a. Steering Committee composed of FDA, and selected representatives from development partners
- b. Baseline Surveys and Follow up data collection
- c. Ministry of Environment, Ministry of Energy, and National Agricultural Research Institute. .
- d. Developing milestones to measure progress.
- e. Audit.

### **Expected Outcomes**

- a. 100 Green Ambassadors trained.
- b. 500 Energy Efficient Cook stoves (EECS) produced.
- c. 6 Illegal dumpsites converted to community gardens
- d. Access to efficient and affordable (EECS) to households.
- e. Reduction of fuel wood and charcoal use.
- f. 1,000 Muti Purpose Fast Growing trees planted
- g. Reduction in the Rate of deforestation
- h. CO2 emission reductions.
- i. Environmental conservation.
- j. Improvement of the health of women and youth through avoidance of inhalation of smoke.
- k. productive capacity of the youth and women strengthened
- l. Improved income generating opportunities at the household and community levels.

### **Implementation Arrangement**

Fortress of Development for Africa (FDA) would take up the responsibility for activities co-ordination through an implementation unit. Two (2) officials will be contracted to take up the day to day running of the project, these officials will be:

- Coordinator
- Assistant Coordinator

They will also be supported by the following personnel:

- Accountant
- 3 Field Coordinators
- 2 Technical Assistant
- 1 Monitoring and Evaluation Officer

- Gender Specialist
- Driver

The potential Green Ambassadors will also serve as volunteers during the activities implementation.

Ministry of Environment, Climate Change and Natural Resources, Ministry of Energy, and National Agricultural Institute (NARI) will also be engaged especially where technical assistance would be needed to ensure that the aims and objectives of SAGE are met.

Volunteers from Volunteers Involving Organizations, CBO's NGO's and other groups are expected to participate effectively in the activities implementation.

### **Steering Committee**

Steering committee would be established to ensure the smooth running of the activities. This would be done by selecting a committee that would not only stop at supervising the implementation and/or running of the activities, but conducting meetings generally to provide an oversight and co-ordination in the implementation.

Steering Committee would have direct responsibility of ensuring that the activities are implemented as designed and to agreed work plan for effective and efficient results, particularly through full co-ordination with all relevant stakeholders to minimize bureaucratic bottlenecks.

In this respect, the Steering Committee would approve work plans and review progress and results achieved. But it will have no compulsory role in the day-to-day operation of the activities. The Steering Committee would meet on a monthly basis for the first 3 months and then on every fortnight thereafter.

### **Sustainability**

The promotion of participatory engagements, practices, formation and strengthening of beneficiaries would ensure the sustainability of the interventions.

SAGE will train 100 Green ambassadors; these ambassadors will be taught how to plant trees, manufacture different types of energy efficient cook stoves, compost, and conversion of illegal dumpsites to gardens. Also these new skills will allow for maintenance of stoves and manage community garden in the community.

During sensitisation and cooking demonstration in communities, 250 energy efficient stoves will be distributed to beneficiaries especially women and youth, after using the stoves, people will see the economic benefits that less wood and charcoal is consumed in cooking meals and therefore saving the household money.

To increase the production of these stoves: the remaining 250 out of the 500 energy efficient stoves produced will be sold at affordable price; In addition, funds collected from production and sales shall be used to produce additional energy efficient stoves for redistribution and sales, this will create job opportunities for the local youth and women and save money for the consumer and contribute to the reduction of deforestation.



Also, there will be improvements in beneficiaries income levels through the sale of agricultural products like vegetables, fruits and pulses, it is hoped that the beneficiaries will continue managing their garden by investing part of the income generated.

Trees and Green plants produce the oxygen that humans and other animals require for life. Plants produce this oxygen via photosynthesis, photosynthesis is the process by which plants create their own food and oxygen is a by-product of the process of photosynthesis.

The project's activity would also focus on sustainable development actions linked to addressing soaring food prices and improving the lives of the people, women in particular, as well as reduce the risk of beneficiaries falling back into food insecurity.

The actions mentioned above will create self-sustainability of the intervention; also local industry will be created, developed, and sustained.

### **Co-Financing and Resource Mobilization**

The co-financing of the project will be in the form of time donated by

FDA and other volunteers in support of implementation activities, office space, expertise, and any other resource required to insure success of the project.

### **Timetable and Work Plan**

The expected duration of the implementation is from January to December 2020

### **Proposed Work Plan**

The expected duration of the activities implementation is from January to December 2020

Time frame of our work plan may change, to suit the weather condition and field situation as the time of approval of this proposal. A logical framework and detailed work plans would be developed according to support received.

### **Working Budget**

#### **Mobilization, Facilitation and Support to Community Gardens and forest**

No	Item	Quantity	Unit Amount GMD	Total GMD	Total USD
1	Baseline Survey (communities)	6	26,000	156,000	3,000
2	Identification of beneficiaries	100	1,300	130,000	2,500
3	Community Sensitization	6	26000	156,000	3,000
4	Radio Sensitization program	12	2,600	31,200	600
5	Support to community gardens	6	52,000	312,000	6,000
6	Support to community forests	3	52,000	156,000	3,000
<b>Sub total</b>				<b>941,200</b>	<b>18,100</b>

**Training, Nursery, Processing, Production and Marketing**

No	Item	Quantity	Unit Amount GMD	Total GMD	Total USD
1	Training of Green Ambassadors	100	5,200	520,000	10,000
2	Stove Production	500	650	325,000	6,250
3	Stove Distribution	500	130	65,000	1,250
4	Tree Planting	1,000	52	52,000	1,000
5	Compost and Bio-char	Bulk	156,000	156,000	3,000
6	Storage facilities	3	104,000	312,000	6,000
7	Promotional Materials	3	26,000	78,000	1,500
<b>Sub total</b>				<b>1,508,000</b>	<b>29,000</b>

**Support Staff Allowance**

No	Title	Time frame (Months)	Unit Cost	1,200	Total USD
1	Coordinator	12	7,800	960	1,800
2	Assistant Coordinator	12	6,240	74,880	1,440
3	Accountant	12	5,200	62,400	
4	1 Field Supervisor	12	4,160	49,920	
5	Technical Assistant	12	5,200	62,400	1,200
6	Monitoring and Evaluation Officer	12	5,200	62,400	1,200
7	Gender Specialist	12	5,200	62,400	1,200
8	Driver	12	3,640	43,680	840
<b>Sub total</b>				<b>511,680</b>	<b>9,840</b>

**Fuels/Transportation**

No	Title	Quantity	Unit Cost	Total in GMD	Total USD
1	Fuels/Transportation (Monthly)	12	7,800	93,600	1,800
<b>Sub total</b>				<b>93,600</b>	<b>1,800</b>

**Audit**

No	Title	Quantity	Unit Cost	Total in GMD	Total USD
1	Audit	1	52,000	52,000	1,000



<b>Sub total</b>	<b>Fifty two thousand dalasi only</b>	<b>52,000</b>	<b>1.000</b>
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**Cumulative Budget** **USD**

Support to Mobilization and Facilitation	=====	<b>18,100</b>
Training, Nursery, Processing, Production and Marketing	=====	<b>29,000</b>
Support Staff allowance	=====	<b>9,840</b>
Fuel /transportation	=====	<b>1,800</b>
Audit	=====	<b>1,000</b>

**Total:** (Fifty nine thousand seven hundred and forty dollars) **USD** **59,740**

**Contact Person**

1. Tenneh Kabbah  
Tel: (+220) 7792236  
Email: [kabbatenneh2@gmail.com](mailto:kabbatenneh2@gmail.com)  
[fodafrika@gmail.com](mailto:fodafrika@gmail.com)
2. Ahmed A. Salami  
Tel: 7874550  
Email: [stainlessahmed@yahoo.com](mailto:stainlessahmed@yahoo.com)