



KOFI ANNAN UNITY AND PEACE FOREST

A GREEN FOREST GHANA PROJECT



African Afforestation
Association e. V.

*Bildung_Zum_Klimawandel
für den Verein*

*African Afforestation Association e.V./ GmbH
Germany*

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**10-Years-Tree-Planting Project in Ghana using the new
Waterboxx-Technology;**

**An African Afforestation Association (AAA) in collaboration
with GROASIS.**

Project Summary:

The project is targeted to reforest about 20,000 Hectares of land in Damango – Northern Ghana - within the next 10 years. 200,000 trees will be planted each year on 2 000ha of land. As a result, a total of 2 000 000 trees will be planted by the end of 2034. The selected varieties of trees to be planted are Mango and Cashew. The project is expected to commence in the year 2024 and run through to 2034.

The total cost of the project is estimated to be €18 999 300. The first year of the project will see an investment of €4 202 100. This high cost at the commencement is due to the cost of purchasing the GROASIS Waterboxx. As these boxes can be re-used for 10 time, the will not be purchased for the subsequent 9 years. Thus, project cost from year 2 to 10 will drop drastically to €1 644 100.

This project will serve as avenue to educate youth on climate change issues, to combat climate related issues, erosion control, and to create jobs and food for locals. It will shelter a green village that will serve as tourist attraction.

The project is design in the fulfilment of many SDG indicators in particular the Sustainable Development Goal 15 which aims to “protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss”.

Other SDG goals such as

No poverty (SDG 1), Zero hunger (SDG 2), Good health and well-being (SDG 3), Quality education (SDG 4), Gender equality (SDG 5), Clean water and sanitation (SDG 6), Affordable and clean energy (SDG 7), Decent work and economic growth (SDG 8), Industry, innovation and infrastructure (SDG 9), Reduced inequalities (SDG

10), Sustainable cities and communities (SDG 11), Responsible consumption and production (SDG 12), Climate action (SDG 13), and Partnerships for the goals (SDG 17).

Finally the project is intended to immortalise the actions of the former UN Secretary General Kofi Annan and as an added bonus a dedicated museum will be erected on the Green village.

The project when implemented will generate 21 jobs for year 1 to 3. From year 4, which is estimated to be the period where harvesting will start, this number will increase to more than 200 jobs and grow to over 400 jobs as trees reach full yield stage from year 6.

Mango: The average yield of a mango orchard can range from 5-10 tons per hectare, with 400-600 fruits per tree. For the sake of our assumptions, let's consider the average yield to be 7500kg/ha at a price of €0.66/kg.

Cashew: The average yield of a cashew can range from 0.4-0.8 tons per hectare, with 400-600 fruits per tree. For the sake of our assumptions, let's consider the average yield to be 650kg/ha at a price of €3.78/kg.

The project will not generate any income for the first three years. In year 4, the trees planted in year 1 will reach yielding stage. As a result, harvesting activities will commence thus generating a cumulative income from both trees which is estimated around € 6 021 000. The project is expected to breakeven in year 6 with a net income of € 18 063 000.

BENEFIT OF GROASIS TECHNOLOGY

The technology offers a significant economic and social impact for developing and developed countries. The technology is also primarily applied for the restoration of dry regions which have had their water bodies, vegetation and wildlife, lost through degradation. The technology further offers some natural, social and economic value through the restored vegetative climate. It is especially useful in desert, arid and

semi-arid climates where it is virtually impossible to successfully plant without using (drip) irrigation which requires large quantities of water and energy.



TARGET GROUP

The project will target the farmers unemployed youth especially school dropouts and underprivileged women in Ghana. The secondary target will be the unemployed people and other farmers with the desire to learn and apply the technology and also introduce the Groasis technology for other farming activities. Through the project, people will be self-employed or will get employed to help other farmers who have big lands to be reforested. This will also reduce poverty in the Ghana and generate fruits and other food products to the people. The climate will also improve through the presence of trees which generate rains for the area and subsequently raising the water level of the area. Through the creation of employment for women, youth and the unemployed, the incidence of Rural Urban migration will be reduced.

Similarly, it is our desire that at the end of the project, the officers and some of the trained workers will be issued with certificates. They will further be employed to continue with the monitoring and supervision of the trees. Undeniably, they will serve as multiplication's who will train other farmers and people in the Ghana and Sahel-Zone.