

IMPACT ASSESSMENT

TANZANIA: TRAINING ADDRESSES ENVIRONMENTAL CONSERVATION

COMMUNITIES RECEIVE SEEDLINGS, ENERGY-EFFICIENT STOVES, AND AGRICULTURAL TRAINING



District Lands and Natural Resources Officer John Mwombeki shows students and teachers the proper way to planting trees. The project conducted by the Anglican Diocese of Kagera resulted in 300,000 trees planted in Tanzania.

COMPLETED PROJECT

Tanzania is one of the poorest countries in the world, based on per-capita income. High poverty and illiteracy rates make it hard for most Tanzanians to improve their lives. About 80 percent of people depend on agriculture for their livelihood. Over the years, this dependence on farming has led to severe deforestation as farmers fell trees to clear the land and provide firewood for cooking. The mass deforestation struck the Kagera region of Tanzania. In response, the government has given out seedlings for farmers to plant, but the trees often die due to the farmers' lack of training.

As the Tanzanian population grows, so does the need for natural resources, such as firewood. The farmers need to learn different ways to farm that conserve the environment and resolve acute water shortages. The farmers also need to find other crops to grow that are better suited to their region, such as cotton instead of their mainstay, tobacco.

In response, the Anglican Diocese of Kagera conducted an environmental conservation project in this region that stressed reforestation with training to help ensure the seedlings grow into mature trees. The project taught people about energy-saving solutions that make them less dependent on firewood for cooking.

This project, which saw a total of 300,000 trees planted, achieved all three of its goal, earning a rating of "Achieved."

TRACK RECORD

The Diocese of Kagera has brought environmental conservation projects to nine communities, training a total of 1,695 people in its methods. The beneficiaries planted 62,000 trees from 2012 to 2014, with 88 percent surviving thanks to the planters' training. Previously, the diocese distributed 40 energy-saving stoves.

PROJECT PROFILE ID: ARDF-0716-Kagera

Lead Ministry
ANGLICAN DIOCESE OF KAGERA



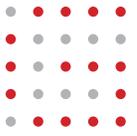
Requested amount	\$65,747
Amount spent	\$64,047
Expected cost per beneficiary	\$26.95
Actual cost per beneficiary	\$25.90
Location	Tanzania
Sector	Environmental Conservation
Evaluation date	June 2018
Researcher	Frederick Barasa

PROJECT PERFORMANCE

BELOW ACHIEVED EXCEEDED

DEFINITION OF RESULTS

Exceeded	Implementer exceeded goal by more than 20%
Achieved	Implementer solidly achieved the goal +/- 20%
Below	Implementer partially achieved the goal
Not achieved	Goal was 100% not achieved



ASSESSMENT & RECOMMENDATION

To counter Kagera's problems, the Anglican Diocese of Kagera led an effort to restore forests and provide energy-saving cooking stoves, which cut down on the amount of wood needed to prepare meals. The project goals were to enhance people's livelihood by mobilizing communities in Kagera to plant trees where there are none and provide them with energy-saving cooking stoves so less wood is needed. The diocese encouraged environmental education in schools, the community, and churches. It also provided tree seedlings. Churches were also reminded of their role in conservation through creation care teachings and the Christian worldview that promotes ecological integrity. The project involved extensive stakeholder consultation through meetings and focus group discussions to capture information pertaining to the project.

Because of this project, 2021 farmers in self-help groups participated in environmental conservation in Kagera region. This resulted in 250,000 trees being planted by individuals on their farms and within church farms. Another 50,000 trees were distributed and planted at seven secondary schools. Alongside tree planting on bare land, tree nursery groups were established and trained in managing soil erosion and the need to protect land for food production and water conservation.

A total of 405 families were trained in environmental conservation and the use of energy-saving stoves. The lessons included good kitchen management and efficient cooking practices, both of which are healthy and encourage saving. They also purchased stoves that are more efficient than what was previously used. A total of 47 community leaders were mobilized to participate in this project. They played an important role in getting farmers to plant a total of 300,000 trees. They were also trained in conservation agriculture that protects soil and improves water management.

Cooperation with local government leaders, religious leaders, and other local associations was strong. Educating the community farmers and raising awareness of the problem was critical in supporting this tree-planting initiative. The diocese was careful in planning the correct planting time to coincide with the long rains needed for a tree seedling to grow. It was also helpful that the project was linked to the Diocese of Kagera's Church and Community Mobilization Process (CCMP), which promotes self-sustaining initiatives. Also, the local government provided a reliable pool of committed environmental professionals from the district council who provided technical and extension services.

One of the major lessons learned was that getting strong community participation at a grassroots level was critical to the community adopting environmental conservation. Capacity building, networking, and integration of groups for the training increased efficiency of this project, as well as the knowledge among members who participated. Tree nurseries were tended by groups (often women's groups) who nurtured the trees and socialized at the same time. Many of these group members also planted trees at their churches, schools, and their own farms. The engagement of woman in leadership ensured that this project became socially acceptable in the community.

This project revealed strong data that should be used to evaluate future projects. In the Kagera region, many families use 15 to 18 pieces of wood (or 7 to 9 kg of wood) per day, and between 5,475 to 6,205 pieces a year (1,825 to 2,068 kg) using traditional three-stone stoves. With the new wood-saving stoves, families use between 7 to 10 pieces a day (2,555 to 3,285 kg, annually). This equals an annual saving of between 1,314 and 1,411 kg per household.

Diocese of Kagera has competent nursery managers to make this project more successful and sustainable. It will require \$38,000 to train local tree growers, buy seeds, pots, and other equipment. Energy saving stoves will require \$30,000 for seed capital.

While the risks surrounding the project's concept, sustainability, financial, and external controls remain low, other risks should be considered before future funding:

Program design and experience. Despite the success and popularity of this project, the free seedlings distribution led to negligence in their handling and planting. To mitigate this risk, implementers should encourage beneficiaries to pay a percentage of the cost of the seedlings and stoves. This will improve or enhance their commitment.

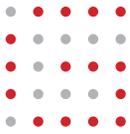
Recommendation

Diocese of Kagera's long-range goal is to plant 1 million trees and see 1,600 households using energy-saving stoves. To meet the current demand for the seedlings and stove, the diocese should buy and sell the stoves and also establish tree nurseries to sell directly to growers. The diocese should establish a savings and loan plan that would allow farmers to borrow money from the fund to buy seedlings. Any future support to the diocese for this project should be in the form of loans. Ultimately, such a plan would help regrow the region's forests, increase the use of energy-saving stoves, and create a sense of self-sufficiency in the community and reduce mental dependence on others.

ANTICIPATED	ACTUAL	EXPECTATIONS/COMMENTS
<p>2,000 LOW INCOME FARMERS will participate in an environmental conservation project, as indicated by their commitment to plant trees during the next rainy season</p>	<p>2,021</p>	<p>[+] ACHIEVED A total of 2,021 farmers in self-help groups participated in an environmental conservation project in Kagera. This resulted in 250,000 trees being planted by individuals on their farms and church farms. Another 50,000 trees were distributed and planted at seven secondary schools. Alongside tree planting on bare land, tree nursery groups were established and trained in managing soil erosion and ways to protect land for increased food production and water conservation.</p>
<p>400 FAMILIES will learn to conserve energy and save the environment by purchasing and using an energy-saving stove</p>	<p>405</p>	<p>[+] ACHIEVED A total of 405 families were trained in environmental conservation and the use of energy-saving stoves. Education included good kitchen management and efficient cooking practices.</p>
<p>40 COMMUNITY LEADERS will help mobilize the community into participating with the project, as evidenced by the number of participants</p>	<p>47</p>	<p>[+] ACHIEVED A total of 47 community leaders were mobilized to participate in this community project. These leaders played an important role in mobilizing farmers to plant 300,000 trees. They were also trained in conservation agriculture, which protects soil and improves water management.</p>



In this project by the Anglican Diocese of Kagera in Tanzania, an estimated 300,000 trees were planted to help the deforestation problem. Women's groups and student groups, such as this, got involved in the project.



FINANCE REPORT

BUDGET ITEM	BUDGETED FUNDS	ACTUAL FUNDS SPENT
Tree nursery	\$23,809	\$22,060
Energy-saving stoves	\$14,285	\$15,285
Staff	\$8,571	\$7,821
Research and evaluation	\$8,514	\$8,514
Administration	\$3,522	\$3,600
Site visits to farmers	\$3,238	\$3,101
Motorcycle for the field officer	\$1,666	\$1,667
Car service and maintenance	\$1,666	\$1,700
Contingency	\$476	\$ 299
TOTAL	\$65,747	\$64,047



IN THEIR OWN WORDS

"I am a very happy woman and proud to be a beneficiary because this project has reduced my burden associated with the use of a costly and energy-inefficient stove. ... Before receiving the new stove, I had to go to the forest twice a week, trekking [6 to 9 miles] with heavy wood on my head. I was using about 17 pieces of wood for cooking per day; now I only go to the forest twice a month and use about 8 pieces to cook the same food. This is because fire is more contained than before. I thank God for this wonderful project."

— **Vaileth Nehemia, a local farmer, Kasange village, Kagera, Tanzania**

PROJECT RECAP

ID - ARDF-0716
Kagera

Timeline - 12 months

Requested - \$65,747

Modified - 080618

For information about the Fund or Projects, write to:
800 Maplewood Ave.
Ambridge, PA 15003-2316
(724) 251-6045
www.ARDF.org



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76 KELMAR AVENUE • MALVERN, PA 19355
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