

Adaptation Committee

Adaptation Committee Expert meeting on livelihoods and economic diversification

7–8 September 2015

Short case studies

Title of the case study	Building Resilience in Rural Communities through Bamboo Propagation for Renewable Energy and Carbon Foot Print.
Lead organization	Jambo Africa Tourism Organization Network (JATONET Kenya)
Name and contact details for further information	Name: 1. Joseph Kiprotich Chengoli – Executive Director 2. Benson AlakonyaKeya- Treasurer and Communications Manager 3. Lilliane Bwire- Institutional Manager Email: kenyajatonet@gmail.com Website: www.jatonetkenya.org Tel: +254753758536,+254714637763
Broad context	The project targets 1600 vulnerable families, 50% are female headed households, it involves the production of a high efficient cook stove that uses bamboo as fuel as a solution to high toxic emissions found in other forms of energy use in poor rural households. It incorporates several segments of stakeholders but adopt the model of women groups each located at the county Ward as distributors of the stove into identified households. A community resource person living in each ward follows up on each recruit in their ward to keep record and data on those recruited in the project as beneficiaries. The project is continuous until after an estimated reach of 38,400 households directly falling in the bracket of 56% who live below poverty in the entire Bungoma County. Its success is determined when each family/household recipient recruits 2 others every month for a consequent 12 months in the course of the entire year to adopt a bamboo cook stove technology and plant 6 stems on bamboo seedlings-the minimum needed to offset 1 ton of carbon in the air. The project is rolled out in every one of the 45 wards in Bungoma County where each ward is identified a total of 35 members of a women group/s who each receive a clean cook stove and in turn each recipient to recruit 2 others who will continue the ‘pyramid cascade’ distribution of recruiting two others every consequent month for 12 months month until an estimate of 268800 people will have been reached in one year because every household has an average of 7 members. The model can be continued or scaled up after the project end line until 50% of the households in the entire county adopt the use of renewable energy with its benefits.
In which country/ies or region was the activity carried out?	Bungoma County KENYA
Who were the stakeholders	Community, women groups,government,Special programs, community leaders



involved?	
Who were the key collaborating institutions/organizations?	National Environment trust Fund (NETFUND), Bungoma County, Ministry of Interior Cordination, National Environment Management Authority (NEMA), Kenya Forestry Research Institute (KEFRI)
What actions were taken?	<p>Objective 1: Encourage adoption of renewable energy stoves for domestic use.</p> <ul style="list-style-type: none"> • Develop training program on bamboo use and filter stove for 45 women groups. • Train 45 hands on volunteer technical team to follow up in the wards. • Production of 1600 Bamboo Clean Cook Stove. • Distribution to 1600 select vulnerable household • Supply bamboo as fuel to beneficiaries. <p>Objective 2: Enhance conservation efforts through planting of bamboo.</p> <ul style="list-style-type: none"> • Distribution of 10,000 seedlings to 1600 households • Planting of at least 6 seedlings in every beneficiary household to promote forest cover. <p>Objective 3: Promote gender equality in rural communities.</p> <ul style="list-style-type: none"> • Recruit 45 women groups • Train 1600 women group members on use of Bamboo clean cook stove • Enlist 1600 women as recruiters of the distribution chain • Provide at least 800 female headed households with a Bamboo Clean Cook Stove. <p>Other related actions</p> <ul style="list-style-type: none"> • Expansion of workshop facilities to produce more stoves per day. • Liaise with ministry of environment and energy for certification. • Stakeholder meetings. • Data collection for monitoring and Evaluation.
Key outcomes and lessons learned	<ul style="list-style-type: none"> • The stove uses Bamboo as fuel and has many advantages such as reducing CO₂ by over 75 entering the atmosphere clean burning cooking stove. • Uses 70% less fuel than other types therefore reduced costs on fuel. Reduction or elimination of disease associated with toxic emissions/smoke which can lead to cancer low birth rate, TB, higher infant mortality, asthma, pneumonia. Reduction in back and neck injuries to women and children, who go out to gather firewood in forests, generate jobs in the aspect of distribution and training other community members to use. • Reduction in environmental degradation by reducing deforestation and CO₂ emission in the air. Bamboo is an ideal source of bio energy, it is a fast growing plant and can be harvested after 3 years thereafter a lifespan of up to 150 years. The entire bamboo plant can be used to

	<p>produce charcoal resulting in limited waste and has a high heating value making it efficient value charcoal from bamboo burns longer and produces less smoke and air pollution than other woods. Bamboo offers many new opportunities for income generation and can be processed in to a wide range of wood products such as floor boards, furniture, has medicinal value and can be eaten as a source of food.</p> <ul style="list-style-type: none"> • Bamboo as a fast growing plant contributes to Kenya’s vision 2030 to reach forest cover of 10%.
<p>Relevant references (e.g. weblinks, online resources)</p>	<p>www.jatonetkenya.org</p> <p>http://www.betterworldsolutions.eu/bamboo-stove-minimizes-co2-footprint-in-kenya/</p>
<p>Other information you would like to share</p>	<p>When more households make saving from reduced fuel costs, they can use or channel the money to other activities to earn incomes for their families or afford more of the basic needs by the families. When the families are healthy and wealthy then they are strong to contribute to the country’s GDP and their own improved lifestyles through a self-sustaining livelihood. The project has an explicit gender focus and 50% of recruited household will be female headed. Majority of poor household are single families headed by women who have no incomes and suffer the need for affordable energy to meet their daily needs. Because women meet and discuss issue during their women group meetings renewable energy will be a new point of discussion to encourage an uptake with members passing on information to others. This strategy will help tackle MDG 123 to 7 and SDGs. Male counterpart will be involved in community conversation to adopt renewable energy sources and support their female folk from danger through attitude change and support to vulnerable families.</p>