

6 PROJECTS AT A GLANCE

Project Sheet for SWITCH Africa Green Programme

UGANDA



WHERE WE ARE IN AFRICA

The overall objective of SWITCH Africa Green is to support 6 countries in Africa to achieve sustainable development by engaging in transition towards an inclusive green economy.

COUNTRY PROJECTS

- UGANDA**
- Upscaling Generation, Commercialization and Utilization of Biomass Waste-based Green Energy Sources in Uganda
 - Demand-side Management of Water Use in Micro, Small, Medium-sized Enterprises in Uganda Through Promotion of Water Use Efficiency Techniques and Practices
 - Demand-side Management of Energy Use in Micro, Small and Medium Enterprises (MSMEs) in Uganda Through Promotion of Energy Efficiency Techniques and Practices
 - Eco-agriculture-sesame Livelihoods and Organic-green Business Opportunities for Young Rural People
 - Promoting Inclusive Green Business Practices in the Tourism Sector
 - Promoting Sustainable Product Innovation and Energy Efficient Practices Among Small Scale Industries in Uganda

- KENYA**
- Greening SMEs Leather Clusters and Leather Tanning Industry
 - Enhancing Sustainable Tourism Innovation for Community Empowerment in Kenya
 - Up-Scaling Sustainable Commercial Production Of Medicinal Plants by Community-Based Conservation Groups at Kakamega Forest in Kenya
 - Capacity Enhancement for Green Business Development and Eco-Entrepreneurship in Agricultural Sector

- MAURITIUS**
- Greening the Mauritian Tourism Industry
 - A Model for Sustainable Production and Consumption Practices and Ecopreneurship Development
 - Increase Capacity Building of The Fisher's Community of Rodrigues Through Training for The Bio Cultivation of the Combaia Lime Plants and Its Chili Paste
 - Promoting Sustainable Local Agriculture Through Green Retail and Green Hospitality (Sus-Agr)
 - National Energy Efficiency Program - PNEE
 - Developing Capacity Amongst Rodriguans to Adopt Green Businesses Through Training To Key Stakeholders and the Development of a Green Business Guidebook

- SOUTH AFRICA**
- Awareness Creation and Capacity Building on Eco Labeling for the Agricultural Sector
 - Meat Naturally Initiative: Embedding Sustainability in South Africa's Emerging Red Meat Sector
 - Collaborating to Facilitate Investments And Shifts To A Green Economy that Can Improve Social Wellbeing and the Provision of Ecosystems Services in the Port Elizabeth Western Catchment Areas
 - Sustainable Production And Commercialization Strategies in The Agrifood Sector In South Africa
 - Management of Sustainable Energy Production from Integrated Waste Management and Agricultural Processing Systems
 - Promoting SCP in South African Agricultural Value Chains

- GHANA**
- Hanisa E-Waste Model (Hemod)
 - Implementing Industrial Symbiosis and Environmental Management Systems for SMEs in Three Regions in Ghana
 - Promotion of Biogas Technologies
 - One-Stop Business And Policy Centre For The Establishment of Eco Innovative MSMEs and Supporting Policies in the E-Waste and End-Of-Life
 - Improved Institutional Biomass Cook Stoves and Ovens for Small and Medium Scale Agro-Processing Industries in Ghana (Renewable Energy Project)

- BURKINA FASO**
- Croupe De Recherche Et D'analyse Appliquées Pour Le Développement
 - Valorisation Des Déchets De La Filière Anacarde Comme Une Source D'énergie Renouvelable Pour Les Pmes Au Burkina Faso (Cashew As A Source Of Renewable Energy For Smes in Burkina Faso)
 - Enabling Burkina Smes To Start Solar Energy Production
 - Transformation Des Déchets Menagers En Fertiliz Agricole (Transformation of Household Wastes into Fertilizer)

MULTI COUNTRY

- Enhancing Resource Productivity And Environmental Performance Of MSmes In 6 African Countries Through The Concept Of Industrial Symbiosis (Is)
- Empowering Business Development Agencies & Nsas To Advocate Sustainable Consumption & Production Practices And Support Eco-Entrepreneurs in Their Development & Transition Towards Green Inclusive Businesses
- Promoting Eco-entrepreneurship In Africa

PRIORITY SECTORS

- MANUFACTURING**
- INTEGRATED WASTE MANAGEMENT**
- TOURISM**
- AGRICULTURE**

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UPSCALING GENERATION, COMMERCIALIZATION AND UTILIZATION OF BIOMASS WASTE-BASED GREEN ENERGY SOURCES IN UGANDA

BACKGROUND

By-products and waste streams from agricultural processes are currently not widely utilized. Through the implementation of biomass technologies these can be turned into feedstock / fuel for product value addition. This provides farmers with the opportunity to attract higher prices for their produce and thus increases in their incomes. In addition, the manufacturing sector will benefit from technology transfer in biogas burners, milk coolers, lighting equipment and appliances, briquette presses and other accompanying equipment. This creates business opportunities, generates jobs and increases incomes, especially for M&SMEs.

OBJECTIVES

The project seeks to reduce poverty and generate income through awareness creation with regard to biomass based green energy technologies, capacity building on green energy generation, green energy business development and upscaling, and engagement with policy decision makers for favourable policy direction.

ACTIONS

- » Conducting awareness and sensitization sessions through seminars, conferences, and open discussion sessions
- » Capacity building through classroom training and hands-on practical sessions
- » Business incubation and mentoring for identified MSME's on green energy technologies
- » Visits to relevant Parliamentary and Municipal Authorities Committee Officials to identify gaps in the policies and jointly chart the favourable way forward

AFRI-BANANA PRODUCTS AND LIMITED

PARTNER:

Centre for Research in Energy and Conservation (CREEC)

LOCATION:

Uganda's Kampala and Mbarara Urban and Peri-Urban Areas

Budget



\$200,000.00

Timeline



24 Months

UGANDA

DEMAND-SIDE MANAGEMENT OF WATER USE IN MICRO, SMALL, MEDIUM-SIZED ENTERPRISES IN UGANDA THROUGH PROMOTION OF WATER USE EFFICIENCY TECHNIQUES AND PRACTICES.

BACKGROUND

The recent Uganda National Water Resources Assessment Report 2013 indicates a reduction in available renewable water resources in Uganda by 34% in 16 years with a 69% dependency ratio from upstream countries. The manufacturing sector uses large amounts of water in its process. Unfortunately there is limited awareness among MSMEs on the challenges of availability of water resources to sustain their businesses, risk imposed from their current practices, inadequate business ethics and governance and the total costs associated and the impact of waste water discharge on the environment. The high volumes of water consumption associated with inefficient process operations, inadequate knowledge/awareness, and use of obsolete technologies creates channel for water scarcity and non-green practices. Demand-side management of water use at consumption will address these challenges through adoption and implementation of water use efficiency techniques and practices.

OBJECTIVES

The project targets to enhance water use efficiency and increase productivity in MSMEs in the manufacturing sector. Specifically to promote best practices to address water security and create awareness about water conservation among MSMEs; and to facilitate adoption and optimization of water use efficient techniques and practices in order to create model MSMEs for sustainable water use.

ACTIONS

- » Training on water efficiency and undertaking water audits.
- » Setting up of water efficient team within the company to work with UCPC experts in the implementation of water conservation measures.
- » Holding of implementation workshops where company water efficient teams will present their progress of implementation of water efficient measures.
- » Setting targets for cost savings, waste reduction and water efficiency.

DIRECTORATE OF WATER RESOURCES MANAGEMENT (DWRM) MINISTRY OF WATER AND ENVIRONMENT (DWRM)

PARTNER:

Uganda Cleaner Production Centre [UCPC]

LOCATION:

Uganda - divided into water management zones [hydrological zones]

Budget



\$200,000.00

Timeline



36 Months

DEMAND-SIDE MANAGEMENT OF ENERGY USE IN MICRO, SMALL AND MEDIUM ENTERPRISES (MSMES) IN UGANDA THROUGH PROMOTION OF ENERGY EFFICIENCY TECHNIQUES AND PRACTICES

BACKGROUND

In Uganda, the demand for energy has increased significantly due to progress in economic growth and development, improved standards of living, growing populations and specifically increasing industrial growth. The manufacturing sector uses large amounts of energy to support its production processes and other operations. The MSMEs sector is characterised by low energy efficiency due to use of obsolete technologies, un-skilled labour, poor operating practices and limited use of renewable energy sources. Demand-side management of energy use will address these challenges through adoption and implementation of energy efficient techniques and practices. This will create opportunities for the MSMEs to improve their energy productivity, production processes; environmental performance and competitiveness which will contribute to poverty reduction and create jobs in the sector.

**MINISTRY OF TRADE,
INDUSTRY AND
COOPERATIVES (MTIC)**

PARTNER:

Uganda Cleaner Production Centre (UCPC)

LOCATION:

Uganda

Budget

 **\$200,000.00**

Timeline

 **36 Months**

OBJECTIVES

The project targets to improve energy productivity and reduce adverse environmental impacts through adoption and implementation of energy efficient techniques and practices in MSMEs in the manufacturing sector. Specifically to create awareness about energy management and conservation among MSMEs; and to facilitate adoption and implementation of energy efficient techniques and practices in order to create model MSMEs for sustainable energy use in the sector.

ACTIONS

- » Awareness raising; Project seminars and workshops will be organised to raise awareness about the concept of energy efficiency so as to obtain commitment for implementation.
- » Energy audits will be carried out in each of the participating MSMEs so as to identify improvement measures.
- » Carry out Training; all employees from MSMEs, academia and government and energy regulators will be trained to equip them with the required know-how to foster adoption of energy efficient practices.
- » Technical support will be provided during the implementation of energy efficient measures and technical evaluations done to establish the impact of implemented measures.
- » Compilation and dissemination of results on national workshops to recognize MSMEs that will have excelled in adopting energy efficient measures.

ECO-AGRICULTURE-SESAME LIVELIHOODS AND ORGANIC-GREEN BUSINESS OPPORTUNITIES FOR YOUNG RURAL PEOPLE

BACKGROUND

In Uganda's northern region about 80% of the population is unemployed or under-employed in the informal economy, and mostly absorbed by subsistence agriculture. Agriculture remains one of the few growth economic drivers due to the availability of relatively fertile soils, two rainy seasons and high demand for food and other agricultural products in the East African region as well as the growing demand for organic agricultural products. Internationally, sesame seeds demand is growing fast in recent years, sowing sesame as a major potential agricultural market. Sesame seeds production in Uganda grew by 78% between 2002 and 2012. However the productivity of sesame remains low due to the lack of information on improved production practices, market intelligence, value addition, bad post-harvest handling and demands on quality and standards in different markets among other reasons.

OBJECTIVES

The project aims to contribute to change consumption management to reduce the negative environmental impact in the north area of Uganda. It will contribute to increase Livelihoods opportunities for sesame-farmers mainly women and youth through to access to eco-agriculture production and green economy inclusion. The project will also contribute to strengthening of cross-border collaboration and regional integration in a market perspective.

ACTIONS

- » Conduct training needs assessment and multistakeholders workshops at national level
- » Conduct training workshops to equip leaders and members of youth-based farmer organisations with the necessary insights into multi-sector policy issues and processes.
- » Technical assistance to develop better policies and plans.
- » Develop platform for the various networks and build tools resources and database on vital information in agri-business.
- » Conduct studies to identify local resources and promote renewable energy technologies suitable for various eco-farming activities.
- » Mobilize communities and Conduct dissemination activities.

**PLAN INTERNATIONAL-
SPAIN WITH FILIAL OFFICE
IN UGANDA**

PARTNER:
PLAN INTERNATIONAL-
SPAIN WITH FILIAL OFFICE
IN UGANDA

LOCATION:
Uganda



Budget

\$194,411.20



Timeline

36 Months

PROMOTING INCLUSIVE GREEN BUSINESS PRACTICES IN THE TOURISM SECTOR

BACKGROUND

As nature tourism is Uganda's comparative advantage, it is critical to protect the resource base. Environmentally sound operation for tourist accommodation is becoming more and more important, both from an operational point of view (lower costs and security of supply) and a marketing perspective. Unsound operations can have negative impacts on the "tourist experience", flora and fauna and cultural heritage of the area an accommodation is operating in. With increasing number of tourists coming to Uganda the importance of environmental sound operations is becoming more pressing. The availability of technologies and services able to realise these environmental sound operations is currently low and need to be developed.

SNV NETHERLANDS DEVELOPMENT ORGANIZATION

PARTNER:
B-Space [U] Ltd

LOCATION:
Uganda, Albertine Nile tourism area in Northern Uganda

 **Budget**
\$200,000.00

 **Timeline**
24 Months

OBJECTIVES

The overall objective of the action [the project] is to support Uganda to achieve sustainable tourism development by engaging in the transition towards an inclusive green industry based on sustainable consumption and production (SCP) patterns, while generating growth, reducing poverty and creating decent jobs for communities, and minimising the impact of the tourism sector on the environment. The project aims to map existing sustainable criteria, standards and labels for the tourism sector in order to discuss [in a dialogue with the private sector] the potential of marketing incentives for the promotion of eco-tourism in Uganda.

ACTIONS

- » Supporting eco-entrepreneurship and SCP practices in tourist accommodations by identifying sustainable innovation opportunities; design, incubate and pilot smart "technological" and "social" solutions.
- » Monitoring SCP performances of tourism sector and socio-economic impacts at community and MSME level.
- » Developing and disseminating best practice cases for the identification of guidelines, principles and ready to implement eco-innovations.
- » Sensitizing and promoting inclusive business models and marketing tools [labels] in the tourism industry.
- » Supporting the mainstreaming of Sustainable Consumption & Production (SCP) patterns in tourism policies and frameworks.

PROMOTING SUSTAINABLE PRODUCT INNOVATION AND ENERGY EFFICIENT PRACTICES AMONG SMALL SCALE INDUSTRIES IN UGANDA

BACKGROUND

Micro, Small and Medium Enterprises (MSMEs) account for a sizeable share of the Ugandan industry and contribute a lot to its economic development. They are a vehicle through which the rural poor and informally employed Ugandans can transform themselves into the middle and the industrial class of tomorrow. The sector has potential for long-term growth and accounts for approximately 90% of the private sector. In addition to lacking the technical capacities and resources to undertake an analysis on energy consumption, many MSMEs employ inefficient and obsolete technologies which are environmentally inappropriate. Furthermore, industrial wastes in form of solid waste; effluent or air emissions are released untreated into the environment. This project addresses the issue of strengthening capacities of the MSMEs on sustainable manufacturing.

OBJECTIVES

The overall objective of this action is to contribute to sustainable development and minimize environmental impact from the small scale industrial sector in Uganda; through the promotion of best practices of sustainable product innovation and energy efficiency.

ACTIONS

- » Awareness raising training for manufacturing SMEs and media campaigns targeting relevant policy.
- » Undertaking policy advocacy and dialogue; facilitating networking among small scale green businesses and benchmarking on sustainable manufacturing.
- » Identifying market linkages and conducting market assessment studies to identify specific opportunities for new sustainable product designs in local and international markets.
- » Development and dissemination of manuals and training,
- » Promoting an eco-labelling scheme as well as developing and adopting a code of for SMEs in Uganda.

UGANDA SMALL SCALE INDUSTRIES ASSOCIATION (USSIA)

PARTNER:

Uganda Cleaner Production Centre (UCPC)

LOCATION:

Uganda

Budget



\$200,000.00

Timeline



36 Months



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