SWITCH AFRICA GREEN PROJECT
Enhancing Resource Productivity and Environmental Performance
The SWITCH Africa Green Project is developed and funded by the European Union (EU) to help six African countries shift their sustainable consumption and production patterns and transit to green economies.

Project implementation is led by the United Nations Environment Programme (UNEP) in partnership with other UN agencies that include the United Nations Office for Project Services (UNOPS) and the United Nations Development Programme (UNDP).

The project is coordinated by the African Roundtable for Sustainable Consumption and Production (ARSCP).
The participating African countries include:

South Africa; Ghana; Burkina Faso; Kenya; Uganda; and Mauritius.

In South Africa, the UNEP/UNOPS has partnered with the National Cleaner Production Centre, South Africa (NCPC-SA) and the Department of Environmental Affairs (DEA). The NCPC-SA leads implementation, while the department provides strategic leadership and coordination.
The SWITCH Africa Green Project aims to:

- Support six countries to achieve sustainable development and transit to green economies through sustainable consumption patterns (SCP), while generating growth, creating decent jobs and reducing poverty.

- Support green business development and eco-entrepreneurship.

- Promote the use of SCP practice by bringing about:
  1. MSMEs (micro, small and medium enterprises) equipped through training in industrial symbiosis (IS) and resource efficiency and cleaner production (RECP) to seize opportunities for green business development.
  2. Better informed public and private consumers.
  3. Enabling conditions and policies to influencing key sectors in the six African countries.
Policy Support
Country’s enabling instruments: Policies, regulatory frameworks, incentive structures, tax and market-based instruments influencing priority sectors in green business development.

Status: Complete
Green Business Development
Provide services to MSMEs that enable them to start and develop resource efficiency and green business based on SCP practice through IS. This two and a half year project started in 2016 and will complete in 2018.

Status: on-going
Networking Facility
Provides project networking and communication. The network assists in distilling knowledge from project implementation for wider replication and the facilitation of policy uptake.
This component promotes SCP practices and eco-entrepreneurship through the implementation of pilot projects, such as:

- Enhancing resource productivity and environmental performance of MSMEs in six African countries through the concept of industrial symbiosis.

- Awareness and capacity building for eco-labelling in South Africa’s agriculture, integrated waste management and manufacturing sectors.

- Management of sustainable energy production from integrated waste management and agro-processing systems.

- Promoting SCP in the South African agricultural value chain.

- Embedding sustainability in South African emerging red meat sectors.

- Collaborating to facilitate investments and a shift to a green economy.
The NCPC-SA has been awarded a grant to implement a pilot project in South Africa, with the ARSCP as the project coordinator. The pilot project is managed by the UNEP through UNOPS, while technical support is provided by Industrial Symbiosis Ltd of UK.

- The project aims to enhance resource productivity and environmental performance through IS and RECP.
In essence the project focuses on:

- Raising awareness for policy makers on industrial symbiosis as a resource efficient tool based on the economies of waste products and impart industrial symbiosis know-how to the MSMEs.

- Implementation by MSMEs of RECP and IS.

- Promoting policy reforms for the benefit of the environment, climate change and the alleviation of poverty.

- Increasing profits and voluntary compliance among the enterprises.
SWITCH AFRICA GREEN PROJECT

2016 | 2017 | 2018
The project is achieved through the implementation of the following activities:

1. Mapping of the potential MSMEs.
2. Awareness raising among policy makers on the concept of IS.
3. Training of the project delivery partners on IS.
4. Training of the MSMEs.
6. Providing technical support during project implementation.
7. Conducting technical evaluation of the results of the impacts of project activities.
8. Development of the networking hub for IS in the region.
9. Development of the IS toolkit to facilitate up-scaling of activities within MSMEs, and ensure sustainability of the project.
2016 PROJECT ACTIVITY SUMMARY

Year | Month
--- | ---
Year 1 2016 | 1 2 3 4 5 6 7 8 9 10 11 12

1. Mapping of the MSMEs

2. Awareness raising policy event at ARSCP meeting in Kampala, Uganda.

3. Training of the NCPCs

4. Conduct two trainings per year for the MSMEs

5. Assist MSMEs to conduct assessment for implementing IS

6. Provide technical support for MSMEs to implement outcomes from the assessments

7. Conduct technical and commercial evaluation of company results.
PROJECT ACTIVITY FOR 2017-2018

Year  | Month
--- | ---
Year 1 | 2016
1 | 1
2 | 2
3 | 3
4 | 4
5 | 5
6 | 6
7 | 7
8 | 8
9 | 9
10 | 10
11 | 11
12 | 12

1. Awareness Raising Policy event
2. Development of the networking hub for IS in the region.
3. Knowledge sharing event
4. Conduc two training events per year for the MSMEs
5. Assist MSMEs to conduct assessment for implementing IS
6. Provide technical support for MSMEs to implement outcomes from the assessments.
7. Conduct technical and commercial evaluation of company results.
Mapping potential MSMEs

This involves:

Identifying and matching potential MSMEs.

Collection and analysis of resource utilisation and waste generation of the past 2-3 years.

Establishing baseline information of resource performance indicators.
Awareness raising among policy makers

To be achieved by:

- Organising bilateral meetings, seminars and awareness raising workshops about the IS, RECP, and environmental management systems concepts.

- Organising international forums to raise awareness for policy makers. The first one was held in Kampala, Uganda in June 2016. The second is scheduled for 2018.

- Obtaining commitment for the implementation of the actions.
Training of the delivery partners in IS

The purpose of the training is to build capacity in each delivery partner and equip them with the required know-how to foster sustainable consumption, resource efficiency and industrial symbiosis.

Training material and data collection guide was developed by Industrial Symbiosis Ltd (ISL).

• Delivery partners are trained by ISL.
• The first three-day training was conducted in June 2016.
Training of the MSMEs

Train MSMEs top management and key technical staff on RECP and IS. The aim is to train 100 MSMEs per country. Each country is to conduct two trainings per year with up to 20 companies per training.

The MSMEs are trained:

- To acquire the know-how of RECP and IS thereby enabling them to return to their enterprises and conduct in-depth assessments of their processes and identify measures for implementation.
Conduct an in-depth assessment

Trained MSMEs are expected to assess their own resources and identify opportunities for resources through IS. During the course of assessing tracking material, input and output, major challenges and opportunities for resource efficiency will be identified.

With the help of the NCPC-SA, MSMEs will evaluate potential for the implementation of the project by:

• Identifying resource efficient measures (quantified analysed and subjected to technical, economic and environmental feasibility analysis in order to prioritise measures for implementation.

20 MSMEs will be assessed per year.
Providing technical support during project implementation

NCPC-SA will provide technical support for MSMEs implementing RECP and IS measures identified during in-depth assessment.

Technical support includes:

• Guiding MSMEs in identifying possible synergies.

• Setting targets for cost saving, reduction in waste generation and improving waste handling.

NCPC-SA will assess progress of implementation and evaluate impact of the project in relation to the baseline information.
Conducting technical evaluation of the results of the impact of the project

To be achieved by:

• Technical evaluation of the implemented measures.

• The evaluation will assess the economic and environmental benefits of the implemented measures.

• Evaluate the impact of the project on other beneficiaries.

20 MSMEs will be assessed for impacts per country.
Development of a networking hub for IS

The hub is aimed at the developing an infrastructure to enable uptake of IS activities across the region. Case studies, lesson learned and challenges will be documented and disseminated through the Hub.
Since the project started in March 2016, the NCPC-SA has achieved the following deliverables in line with the project activities:

• Mapping of 67 MSMEs.
• Training of the 57 MSMEs.
• In-depth assessment of the 30 MSMEs.
• Technical support for implementation has been provided to 10 MSMEs.
• Compilation of the results of the impacts of the project has been done for two MSMEs.
• One case study was concluded: Kusini Investments and Urban mining completed synergy
• Learn how to track materials (input and output).
• Identify, quantify and analyse all significant material input and output in the business system.
• Enable re-use and reduction of virgin material.
• Inform policy makers and policy reforms.
• Improve resource production.
• Create green jobs.
• Improve revenues and the environment.
The project plans for the second half of the year include:

• Mapping more MSMEs (40).

• Attending the knowledge sharing forum in Mauritius from 31 July to 2 August 2017.

• Conducting two trainings.

• Assisting 10 more MSMEs to conduct in-depth assessments.

• Initiate follow-up visits to support implementation or synergy completions.

• Evaluate and compile results of impacts of the project implementation.
PARTNERS AND DONORS
THANK YOU

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