









Country:MauritiusSector:ManufacturingProject:Programme National d'Efficacité Energétique (PNEE)Grantee:Business MauritiusPartner:Ministry of Energy and Public Utilities

The SWITCH Africa Green programme is developed by the European Commission to support African countries in their transition to an inclusive green economy, the main objective being to promote sustainable development. This is based on SCP patterns, while generating growth, creating decent jobs and reducing poverty.

Acknowledgements

This impact sheet on 'Programme National d'Efficacité Energétique (PNEE)' provides a snapshot of results and achievements of the project under the Green Business Development Component of Phase I (2014-2019) of the SWITCH Africa Green programme. This component supported micro, small and medium-sized enterprises (MSMEs) to apply and adopt SCP practices in their business operations.

The project was implemented by Business Mauritius in partnership with the Ministry of Energy and Public Utilities with the support of the SWITCH Africa Green National Focal Point, Mrs D. Sin Lan NG, staff of the Ministry of Environment, Solid Waste Management and Climate Change, Mrs S. Meeheelaul and Mrs M. Outim, and the National Coordinator, Dr Asha Poonyth-Seewooram, UN Resident Coordinator's Office, Mauritius. The grants were managed by United Nations Office for Project Services (UNOPS) and coordinated by Celia Marquez with support from Mercy Gatobu.

Supervision and coordination for development of the impact sheet was done by Rhoda Wachira and Patrick Mwesigye and programme support was provided by Carolyne Kilel and Sylvia Munuhe, Africa Office, United Nations Environment Programme (UNEP).

The impact sheet was compiled by Sheila Karue consultant, UNEP. Editing, layout and design was coordinated by Communication Division, UNEP.

UNEP is grateful for the financial support provided by the European Union (EU) for implementation of the SWITCH Africa Green programme.

BACKGROUND

SWITCH Africa Green supported the 'Programme National d'Efficacité Energétique (PNEE)' to promote energy efficiency in enterprises in Mauritius. The project was implemented through a public-private partnership between the Ministry of Energy and Public Utilities and Business Mauritius. Business Mauritius is considered an expert on the provision of support to conduct energy audits through a pool of established energy professionals.

The project focused on energy audits and capacity building to MSMEs with the aim of protecting the environment while enabling companies to achieve substantial savings on energy costs.

Beneficiaries

The project impacted 12 MSMEs operating in the sectors of textiles, hotels, agri-food processing, supermarkets, printing, chemicals and agriculture. Their capacity was developed on undertaking energy audits and preparing proposals for finance.

Objectives

The project impacted 12 MSMEs operating in the sectors of textiles, hotels, agrifood processing, supermarkets, printing, chemicals and agriculture.

- To promote energy efficiency in businesses in Mauritius
- Support audits for the individual MSMEs
- Provide technical assistance and energy management to the MSMEs
- Provide education and training on sustainable consumption and production (SCP) practices
- Disseminate good practices in energy efficiency and management





Outputs

Improved capacities of Business Development Services (BDS) to promote SCP practices by MSMEs

Through SWITCH Africa Green, Business Mauritius carried out 96 energy audits for the 12 beneficiary MSMEs. These audits involved inspection, survey and an analysis of energy flows to help determine opportunities for energy conservation in the respective enterprises. Results of the audits provided accurate data on the costs attributed to their energy use and the budget to implement recommendations for energy efficiency measures.

Through SWITCH Africa Green, Business Mauritius carried out 96 energy audits for the 12 beneficiary MSMEs. The MSMEs were trained on measures needed to implement the recommendations of the energy audits in order to improve energy efficiency throughout their operations.

Increased networking among green businesses

The project facilitated networking

The MSMEs were trained on measures needed to implement the recommendations of the energy audits in order to improve energy efficiency throughout their operations.

and exchanges on energy efficiency in businesses through organizing eight breakfast meetings and one national conference which attracted over 80 participants from enterprises, government and academia. Project information of the respective MSMEs is available on the website,

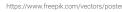
http://www.pnee.mu/ .

Improved awareness of consumers on the impact of the products they buy

The project resulted in improved awareness on the importance of energy efficiency in various business sectors across Mauritius. The awareness of key and relevant stakeholders was raised regarding energy efficiency, renewable energy sources, consumption patterns, reduction measures to improve energy conservation and the potential benefits of energy management practices to be gained.









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Outcomes

MSMEs obtained sustainability standards certification

The project achieved two ISO 50001 (energy management) certifications for two of the beneficiary MSMEs namely Beachcomber Catering and ENL House. Two other enterprises, Maurilait Productions and Livestock Feed were in the process of obtaining their certification at the time of project completion. ISO 50001 supports organizations in all sectors to use energy more efficiently through the development of an

The project achieved two ISO 50001 (energy management) certifications for two of the beneficiary MSMEs energy management system. This makes it easier for the enterprises to integrate energy management into their overall efforts to improve quality and environmental management. The certification is a useful tool to add credibility, by demonstrating that the products of the MSMEs meet the requirements of energy efficiency.

Improved energy efficiency

A total of 12 MSMEs who implemented the audit recommendations reported improved energy efficiency. This translated to reduced levels of energy consumption and costs.

Impact

Environmental impacts

The beneficiary MSMEs reported a reduction of the amounts of carbon dioxide emissions after having implemented the project. There was a reduction in emissions of up to 71,000 tonnes of carbon dioxide equivalent (CO_2 - eq) per annum.

Following the energy audits of the steam systems of beneficiary MSMEs, energy savings of 40MW were reported.

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Economic Impacts

Beneficiary enterprises reported annual savings of over 10.5 Million US Dollars following energy audits conducted under the SWITCH Africa Green supported project.

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The investments made on energy efficiency programmes in the enterprises had an average pay back period of two years.

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Lessons learnt

- It takes time for enterprises to make decisions and implement the recommendations from the respective audits made. These types of projects require a consideration of the time factor before they can go ahead and implement the SCP measures.
- Implementation of energy efficiency measures calls for investments by the respective enterprises, which is only possible when the top management has committed to adopt the SCP practices, fully understanding the benefits.



".....Previously we used individual compressors in each work room, now we shared a large system that sends air conditioning in all production rooms. We have invested in energy meters for energy to have data to better target where there is waste of energy and where we can take action to reduce energy consumption,"

Doorgesh Hurill, New Maurifood Ltd.



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