

Overview of Cooperative Technology Implementation Plan (CTIP) Southern Africa

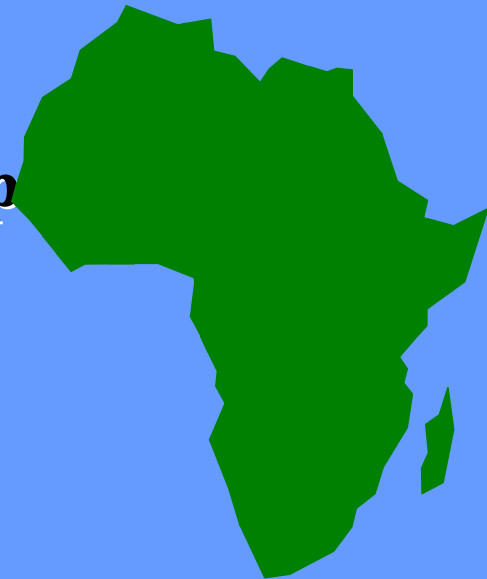
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CTIP Cogeneration Workshop

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CTIP Southern Africa Background

- **CTIP Southern Africa (SA) launched in September 1999 to accelerate regional investment in clean energy technologies.**
- **Project involves SADC countries: South Africa, Zimbabwe, Zambia, Botswana, Tanzania, Swaziland, Angola, the Democratic Republic of Congo, Mozambique, Namibia, Seychelles, Mauritius, Malawi, Lesotho**
- **Active countries include partners in Mauritius, South Africa, Botswana, Malawi, Tanzania, Zimbabwe**

Project Objectives

- **Implement actions to remove market barriers to private investment in priority clean energy technologies.**
- **Facilitate new business investment projects between regional and international business partners that result in carbon emission reductions.**
- **Build support in region for use of clean energy technologies to meet energy needs and mitigate growth of GHG emissions.**

CTIP Activities



- **Southern Centre for Energy and Environment (SCEE) completed a regional assessment in September 2000 of clean energy technology needs and market barriers.**
- **Six priority technologies (energy efficient/solar powered home devices, green housing design, industrial motors and boilers, natural gas development, solar crop drying, biomass power generation) identified as regional priorities.**
- **Actions in two technology areas (biomass power, energy efficient/solar powered home systems) selected for implementation at workshop in Botswana in August 2001.**
- **From 2002-present, projects are being carried out in Mauritius and South Africa with understanding that results and lessons learned would be shared with regional partners.**



Solar Water Heating in South Africa

- **Solar Engineering Services in Durban, South Africa implemented project to promote use of solar water heaters in townships of Lusaka and Klaarwater.**
- **Project used partial subsidies as incentive for early adopters and provided information on low-interest loans for SWH purchases from Ithala Bank.**
- **Project included an awareness campaign on the benefits of SWH units.**
- **Many challenges, but program was successful in convincing Ethekwini Housing (formerly Durban Metro Housing) to launch larger effort throughout Durban area, for range of income levels, including townships.**

Cogeneration in Mauritius

- **Mauritius makes good use of cogeneration, but significant system enhancements are possible in this favorable investment climate.**
- **CTI and Mauritius Sugar Authority reached an agreement to develop proposal.**
- **Japanese CTI partner NEDO provided US\$240K of support for the development of a state-of-the-art cogen 40MW facility in Mauritius that would use of cane trash and leaves.**
- **Local sugar estate in Mauritius has agreed to submit the proposal with Japanese partners.**
- **At present, all are waiting for Central Electricity Board to issue new tender.**

Current Status

- **The goal of this workshop is to share the lessons of the CTIP cogeneration project in Mauritius and discuss the potential for this technology to contribute significantly to Southern Africa's energy needs.**
- **Information on the South Africa SWH project will be disseminated in December 2003.**
- **Funding from US DOE has ended.**
- **Goal of workshop is to identify projects that could be developed into proposals in the future.**