

# Sustainability criteria for biofuels – a Mozambican approach

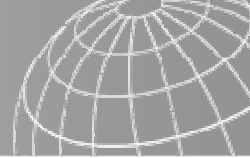
GTZ – ProBEC, Mozambique



**Anna Lerner, Bioenergy Consultant**  
**COMPETE – Arusha, Tanzania**  
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**[anna.d.lerner@gmail.com](mailto:anna.d.lerner@gmail.com)**  
**[www.probec.org](http://www.probec.org)**

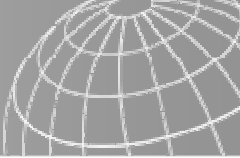




## Mozambique and bioenergy : Background

- **Favourable climatic condition**, sub-tropical climate and **sufficient rainfall** in many provinces.
- Large **population** living in **rural areas** who could benefit from labour intensive biomass production.
- Destructive use of traditional biomass for energy.
- **Supportive government** encouraging investment.
- **Land** suitable for a variety of potential biofuel crops.
- **Biofuel part of poverty reduction strategy** and contributing to national **energy security**.
- EU, Chinese and Indian interest in buying Mozambican biofuels.

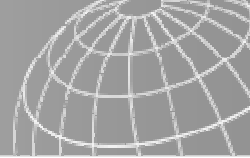




## Mozambique and biofuels : State of play

- A Biofuel Assessment Report is finalised, a biofuel strategy is in drafting
- Few implemented biofuel projects, land allocation process paused 2007 in favour of land zoning exercise
- Biofuel aimed for export and for domestic use as fuel blending for national/regional markets as well as rural electrification
- Main crops of interest  
Ethanol: sugar cane, sweet sorghum.  
Biodiesel: jatropha, soy?, sunflower?, coconut?
- Partnerships with ex. Brazil to share technology, know how etc.





## GTZ – ProBEC

The Programme for **Basic Energy** and **Conservation (ProBEC)** is a **SADC** project, implemented by the German Development Co-operation, **GTZ**.

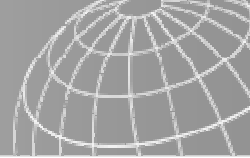
**ProBEC** aims to improve **energy security for low-income population** groups in a **socially** and **environmentally sustainable** manner.

Currently **ProBEC** is actively involved in **Malawi, Lesotho, Mozambique, Tanzania, South Africa, Swaziland, and Zambia**, and it is in negotiation to set up further activities in Botswana and Namibia.

**ProBEC** focal areas for the Bioenergy Component are:

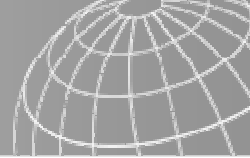
- Sustainability criteria for biofuels
- Socio-economic aspects of biofuels
- Build ProBEC, SADC Secretariat and other partner knowledge





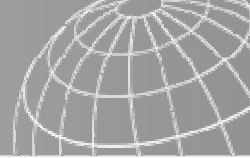
- **Social and environmentally sustainable production of biomass**
  - Technical assistance to SADC Secretariat on **international development of sustainability criteria for biofuels**
  - Technical support to **SADC** and **national biofuel task forces**
  - Requested to support a **working group** within the **National Biofuel Task Force** of Mozambique on developing a **nationally adjusted sustainability standards for biofuel**
  - **Appraisal exercise of the Cramer framework** in Mozambique
  - Assist GTZ HQ in its assessment of areas of **High Conservation Value** - areas of critical biological or social value in Mozambique
  - Case study on **Potential of Sustainable Biomass production**, by the Kenyan Ministry of Agriculture and GTZ, assessing availability of land for sustainable production of various energy feedstocks.





- Deepen the knowledge on **socio-economic aspects** of biofuel production:
  - **Sustainability criteria** and **socio-economic impact analysis** for a large-scale **sugar cane** project in the SADC region.
  - Small scale project focusing on jatropha oil as fuel for electricity generation
- **Additional activities**
  - **Regional monthly newsletter** to improve communication and cooperation in SADC
  - One **GTZ expert** on biofuel based in the **SADC Secretariat** – July/August 2008
  - “Crop decision tool” for biofuel practitioners in SADC.

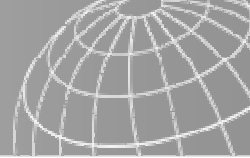




## Sustainability standards

- The right of food is a priority.
- **Social standards** equally important to **environmental standards**.
- **Obligatory** sustainability reporting reinforces implementation of existing **law**.
- Community **consultation** and equal **ownership** structures.
- Social indicators are **country specific**.
- Certification scheme must be adopted to **small scale actors**.





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**Thank you for your attention!**

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