

- **Title of NAMA:**

Clean Energy Technologies for Climate Change Adaptation and Mitigation

- **Brief description, including sector and type of action (project, national policy/programme, strategy etc)**

AIM: To promote climate change mitigation strategies and improve the environment and livelihoods in National Prisons through adoption of clean energy technologies

Specific Objectives

1. To reduce greenhouse gas (GHG) emissions through adoption of clean energy technologies
2. To build capacity on clean energy technologies through skills transfer .
3. To improve livelihoods through provision of a healthy environment and increased agricultural productivity.
4. To improve the environment through use of effective pollution control measures

- **Greenhouse gases covered by the proposal**

Methane

Carbon dioxide – Coal is used for cooking in all prisons country-wide

- **Name of implementing agency**

1. Ministry of Justice, Human Rights and Correctional Services,
2. Ministry of Energy, Meteorology and Water Affairs
3. Ministry of Tourism, Environment and Culture

- **Expected time frame for implementation, including number of years for completing and expected start year of implementation**

Start Year:

Duration: 36 months

- **Estimated full cost of implementation - including amount and type of finance, technology and capacity building support sought**

Sources of Cofinancing	Name of Cofinancier	Type of Cofinancing	Amount (\$)
National Government	Government of Lesotho	In-kind	n/a
GEF Agency	UNDP	In-kind	n/a
TOTAL			n/a

- **Estimated emission reductions and other indicators of implementation including co-benefits for local sustainable development**

Project Component	Expected Outcomes	Expected Outputs
Adoption of adaptation (clean energy) technologies	Reduced GHG emissions	Biogas digesters constructed and solar panels installed
	Improved climate change mitigation and resilience	Optimal operation and maintenance of biodigesters and solar energy panels ensured
Capacity Building	Increased knowledge on clean energy technologies	Operational manuals for biogas digesters and solar panels developed
	increased knowledge on operation of biogas digesters and solar panels	Information and education material on the use of clean technologies development
Environment and livelihoods improvement	Improved environment and livelihoods	Utilization of coal and biomass as energy sources reduced
		Exposure to harmful pollutants reduced
		Carbon sequestration encouraged

Monitoring and Evaluation	Improved socio-economic development status	The volume of drinking water used for irrigation reduced Mechanisms for monitoring and evaluating clean energy technologies interventions developed
	Increased sustainability of clean energy technologies interventions	

- **Links to national policies, plans and strategies.**

The long term impact of the project is to reduce GHG emissions and contribute to the ultimate objective of the UNFCCC, which is to stabilize GHG concentrations in the atmosphere. Further, the project relates to the following priorities identified in the Lesotho NAPA:

- Promoting wind, solar and biogas energy use as a supplement to hydropower energy.
- Stabilizing community livelihoods which are adversely affected by climate change through improvement of small scale industries.
- This is translated in that biogas and solar will be the sources of energy and the resultant wastewater and sludge reused for irrigation of crops and as a biofertilize.

This project is also consistent with Lesotho’s development goals outlined in the National Strategic Development Plan 2012/2013-2016/2017 with particular reference to the following NSDP objectives:

1. Improving national resilience to climate change
2. Promoting and increasing green economy initiatives.