

# LUNDAZI GREEN VILLAGE PROJECT

(A Rural Renewable Energy Project)

By

GREEN KNOWLEDGE INSTITUTE (GKI)

In partnership with

NATIONAL TECHNOLOGY BUSINESS CENTRE (NTBC)

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## **PRESENTATION STRUCTURE**

- **INTRODUCTION**
- **PROJECT OVERVIEW**
- **PROJECT OUTPUTS/RESULTS**
- **BENEFICIARIES**

## INTRODUCTION

The Green Knowledge Institute (GKI) was established in 2009, as an independent, non-profit organization. GKI was created as a knowledge hub to facilitate the development and capacity building of the African Climate Change market. GKI provides consulting services and awareness building activities on climate change threats and opportunities in Africa for both private and public sector entities. GKI leverages international and locally based expertise to ensure top quality provision of services that can effectively translate global opportunities into action on the ground in Africa. Our work focus is twofold:

- Capacity Building & Training
- Project Implementation.

## INTRODUCTION

National Technology Business Centre (NTBC), a quasi – government institution, through its mandate assists promoters around the country to develop new and innovative products and services, whilst ensuring appropriate technologies are used.

In this regard, NTBC identified a key partner; The Green Knowledge Institute (GKI) to work towards further encouraging and enticing project developers and industries to use cleaner technologies and thus benefit from the carbon markets through the sale of carbon credits. Furthermore, GKI has designed and developed the Green Village Concept/Programme for Zambia and Africa.

## **PROJECT OVERVIEW**

GKI and NTBC identified a unique village located 750km east of the capital city, Lusaka in Lundazi district in Eastern Province, to implement the Green Village concept.

The project is electrifying a village of 300 houses within a 1.5km radius, health centre, school and businesses using renewable energy technology. The electricity will be used to power lighting requirements and electrical appliances. This project intends to provide power using a PV Solar system comprising of 240 Solar panels, four 15KVA inverters, 480 batteries, 1,500 energy saving bulbs 3 watt (230v Ac, 65 Lumens), circuit cables, sockets and switches. The total amount of energy produced by the system will be 48KW.

## PROJECT OVERVIEW

Implemented through the successful application of the Public Private Partnership (PPP) Policy:

- National Technology Business Centre (NTBC):
  - Public Institution – Quasi Government
  - Lead Applicant
- Green Knowledge Institute (GKI):
  - Private Sector Organization – Non profit making
  - Implementing Agency.
- Funding Agency – Interim Environmental Fund
  - Government ministry under lands, natural resources













## PROJECT OVERVIEW

- Project duration - 12 months
- Funding agency – Interim Environmental Fund
- Lead Applicant – National Technology Business Centre, a Quasi Government Institution
- Implementing Partner – Green Knowledge Institute, a Zambian non-profit making organization (Limited by Guarantee)
- To be managed by – Magodi Green Village Trust (company limited by guarantee)
  - To collect tariffs and maintenance
  - Guarantors - local committee, GKI and NTBC

## PROJECT OUTPUTS/RESULTS

The provision of power through an off-grid, stand alone, clean technology will provide the rural communities impetus to break out of the shackles of poverty and improve their standard of living.

### Expected Results

- Ø Enhance education by allowing for study beyond daylight hours, introducing better learning conditions such as computer facilities and internet.
- Ø Reduce isolation and marginalisation by the improvement of communication and information channels such as mobile phones, radio, cinema and computers.
- Ø Safety measures can be implemented, such as street lighting and security lighting.
- Ø Improve healthcare by providing lighting and power to the rural health centre, where equipment such as x-rays machines and ultra sound scanners could be installed.

## BENEFICIARIES

The main immediate and long-term beneficiaries of this project are the residents of the village.

No	Institution/ individual	Qty	Benefits
1	Households	300	Electricity, Health, Communication, Information
2	Shops	20	Electricity, Refrigeration, Longer Trading hours
3	School	1	Electricity, Night study
4	Clinic	1	Electricity, Refrigeration

**THANK YOU**

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