Project Proposal: Addressing Poor Waste Disposal and Electricity Blackouts in Zimbabwe --BY ANESU GUVEYA--**

Background and Motivation

Zimbabwe faces dual challenges: inefficient waste management and frequent electricity blackouts. Poor waste disposal has resulted in environmental degradation, public health risks, and the loss of recyclable materials. Simultaneously, electricity shortages affect daily lives, hinder economic growth, and limit access to essential services. With Zimbabwe's growing population and urbanization, these issues have intensified, underscoring the urgent need for sustainable, innovative solutions. This proposal seeks to address both problems by promoting renewable energy resources and recycling initiatives, fostering a circular economy while enhancing energy access.

Objectives

1. To implement sustainable waste management practices focused on recycling and resource recovery.

2. To expand the use of renewable energy resources, reducing reliance on non-renewable energy sources.

3. To minimize the frequency of electricity blackouts through clean, sustainable energy generation.(hydro electricity from Kariba)

4. To raise community awareness and foster participation in recycling and renewable energy initiatives.

Project Description

This project proposes a dual approach: promoting recycling programs to reduce waste and introducing renewable energy solutions like solar,

wind, and biogas generation to improve electricity availability. Urban centers will serve as hubs for recycling facilities, where collected waste is sorted and processed into reusable materials. Simultaneously, renewable energy installations such as solar farms and biogas plants will be established for the citizens at an affordable price. This is also done to diversify the national energy mix. Collaboration with government bodies such as EMA, private investors, and environmental organizations will be key to ensuring the success of these initiatives.

Solution Implementation

1. Recycling Infrastructure Development: Set up community recycling centers and implement waste segregation systems.

2. Renewable Energy Projects: Develop solar and wind energy farms, and establish biogas plants for organic waste conversion.

3. Community Education Campaigns: Organize workshops and awareness drives to educate communities and youth on recycling practices and the benefits of renewable energy.

4. Policy Advocacy: Work with policymakers to incentivize recycling and renewable energy investments through tax breaks and grants.

5. Monitoring and Evaluation: Develop a system to track progress, ensuring the scalability and sustainability of both recycling and renewable energy initiatives.

Expected Outcomes

1. Environmental Benefits: Reduced landfill use, minimized pollution, and better resource management through recycling.

2. Energy Benefits: Increased access to clean energy, reducing blackouts and contributing to a stable power grid.

3. Economic Benefits: Creation of jobs in recycling, renewable energy projects, and expansion of industries.

4. Community Development: Enhanced public awareness and youth involvement in sustainable waste management and energy practices.

Timeline

Phase	**Timeline**
Feasibility Study	3-6 months
Recycling Center Setup	12 months
Renewable Energy Projects	12-18 months
Community Engagement	Ongoing (parallel)
Monitoring & Evaluation	Continue,

This initiative will help transform Zimbabwe's waste management and energy landscape, leveraging recycling and renewable energy to create a sustainable future for its citizens and environment.