

RURAL POWER-UP PROJECT OVERVIEW

PREPARED BY: SUSTAINABLE GREEN ENVIRONMENT INITIATIVE

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1.0 INTRODUCTION

1.1 Background Information

Looking after our environment is a collective responsibility, either as individuals, students, homeowners, entrepreneurs, employees, professionals, employers or organizations. A concern for our environment is crucial to ensuring that we, and future generations can all live healthy lives on a healthy planet. This is what informed the mandate of the Sustainable Green Environment (SGE) Initiative.

The Initiative is aimed at reaching and impacting ten million (10 million) people within the next five (5) years (i.e. 2020 -2024) on climate change mitigation and adaptation through entrenching sustainability in the natural and built environment. Accordingly, the SGE Initiative has the following objectives:

- i. Creating awareness of the essentials of sustainable green environment for a transformational change in the impact of climate change. (a.k.a THINK GREEN)
- ii. Sensitizing young people and professionals on how to drive a cause towards sustainable environment adoption. (a.k.a ACT GREEN)
- iii. Participating in the collective effort towards achieving a sustainable Natural and Built environment. (a.k.a SUSTAIN GREEN)

In achieving the above objectives, the Rural Power-Up Project amongst others, was conceived to address the over-use of non-renewable energy sources (coal, petroleum etc.) which results in production of carbondioxide and air pollution, subsequently causing global warming, and further contributing to climate change and amplifying its effects.

Project focus: **SDG 7 (Affordable and Clean Energy)**

This project targets the areas that are in off-grid areas, and also, who mostly due to non-capability and/or social status, are negatively impacted by the lack of power supply {in terms of Education, Health/Medicals and operation of SMEs (Small and Medium Enterprises)}. The type of ‘clean energy’ source will be primarily Solar, while the type of ‘clean energy’ powered products provided per selected community in a location will depend on the number of homes and SMEs, size, types and capacities of health and educational facilities.

This project affords SGE initiative, partners and sponsors with the opportunity to make considerable impact in the race for a greener environment, and substantially impacting lives, communities, countries and Mother Earth.

1.2 Project Approach

The following milestones highlight the approach with which the Rural Power-Up Project will be executed:

Phase 1: The Green Challenge (TGC) as prequel (awareness on clean power sources – solar energy in this instance for TGC 1.1, to General public and professionals in the built environment), More details here: [Twitter](#) | [Facebook](#) | [LinkedIn](#) | [Instagram](#)

Phase 2: Stakeholders Inclusion

Stage 1: Approach Partners and Sponsors

Stage 2: Approach and get appropriate government support

Stage 3: Approach and get primary communities' support

Phase 3: Conceptual design/feasibility studies

Phase 4: FEED (Front End Engineering Design) competition

Ñ Stage 1: Engineering design

Ñ Stage 2: Costing

Ñ Stage 3: Presentation and Jury's decision

Phase 5: PC (Procurement, Construction)/Execution

Phase 6: Create awareness in target locations/communities

Phase 7: Ribbon-cutting ceremony and sharing of handy products

Phase 8: Monitoring and Evaluation

Phase 9: Edit and Finalize Plan for next location



Figure 1 FLOWCHART SHOWING THE RURAL POWER-UP PROJECT BREAKDOWN INTO PHASES

2.0 PROJECT AIM AND OBJECTIVES

The aim of the Rural Power-Up Africa Project is to create awareness and act on renewable/clean energy sources as an alternative power source, and hence increase sustainability awareness; encourage green environment and influence individuals, communities and organizations to consciously adopt sustainable environmental actions. This will be achieved through the following objectives:

- i. Instigating the target audience (to include residents of selected locations and professionals in the built environment) to learn more through personal research and

professional expertise on the selected renewable energy source, and act on a more sustainable environment.

- ii. Utilizing and sustaining the use of clean energy as a major source of alternative power supply in off-grid areas.

3.0 PROJECT SCOPE

3.1 Scope Definition

The scope of the Rural Power-Up Project includes promoting a culture of sustainable green environment via acting on the use of clean energy as alternative source of power supply in off-grid areas.

Project Name: “*Rural Power-Up Project*”

Project Title: Provision of solar power supply to 200 homes, 5 medical facilities, 50 SMEs and schools in Nigeria.

Clean Energy source: Solar Energy

Timeline: 12 months

Pilot locations:

- Okitipupa and Igbokoda, Ondo state, Nigeria.

Please find below link to the media footage on interviews conducted at the Pilot Location;

[SGEi Rural Power-Up Project \(https://www.youtube.com/watch?v=krV7dolzGLc\)](https://www.youtube.com/watch?v=krV7dolzGLc)

Intervention type: The types of solar-powered products to be provided include but are not limited to the following:

- Solar nano-grid(s)
- Solar lamps and chargers
- Solar Home Systems (SHS)

Criteria for determining target locations: The criteria to be used for determining target locations are as follows:

- Off-grid areas or areas that have had no power supply from the national grid for more than 3 years.

Criteria for determining the clean energy source(s) to be utilized in a location:

- Availability
- Area demographics
- Feasibility
- Costing
- General acceptability

Criteria for selecting specific communities in the target location to receive intervention:

- Social and Economic status of residents
- Size, types and capacities of health and educational facilities
- Percentage carbon footprint of community in comparison with the carbon footprint of the general location

Criteria for determining the intervention types to be provided per community:

- Number of homes, SMEs, health and educational facilities
- Size, types and capacities of health and educational facilities

Phase 2 (Competition) details: An external jury will be used for the assessment of the competition entries. An online platform will be created for the purpose of the competition, for ease of submission, compilation, assessment and evaluation.

Benefits: The following benefits will be made available to the winning team:

- Opportunity to be a part of the Project Implementation Team for the target location
- Awards
- Any other prizes as may be gifted by sponsors

For this pilot locations, all professionals involved from Phase 3-5, including the Jury, and participants in the competition will comprise of professionals and experts in the Energy and Power sector, to include Electrical Engineers, Project Managers, HSE officers, Quantity Surveyors.

3.2 Project Assumptions

The following assumptions were made in the development of this project plan:

- Management will ensure that team members are available as needed to complete project tasks and objectives.
- The required funding and collaborations will be acquired.
- The social media audience and professionals will be motivated enough by the incentive offered and then opportunity to impact lives, communities and the environment, to participate in the Green Challenge and the Competition.
- Project team members will adhere to the Communications Plan.
- All participants will abide by the guidelines identified within this plan.
- The project plan may change as new information and issues are revealed.

3.3 Project Constraints

The following limitations and constraints have been identified for this project:

- The project success depends on voluntary participation by the audience on the social media platforms and the professionals.

4.0 PROJECT TEAM

4.1 Team List

- * **Chairman** – Olowosile Sanmi Jossy
- * **Executive Director** - Olowosile Ruth Oluwatomisin
- * **Information Technology Team Lead** – Ladapo Samuel Dotun
- * **Projects and Programs Director/Project Manager** - Olugbade Olajide Elijah
- * **Project Officers** - Babatunde Oluwapelumi (Solar power expert)
 - Ajayi Isaac (Project Officer)
- * **Monitoring and Evaluation Team Lead** - Olajumoke Oluwatosin Samuel
- * **Monitoring and Evaluation Officer** - Alabi Isaac
- * **Media and Publications Officer** - Itanola Esther Oluwadamilare
- * **IT Officer** - Alomaja Opemipo Sola
- * **Creative Designer** - Ogundairo Olumide Gabriel
- * Other members of the Initiative’s working group (55 Team Members)