



RURAL ELECTRIFICATION & RENEWABLE ENERGY CORPORATION

(Formerly Rural Electrification Authority)

EXPRESSION OF INTEREST: RFX 100000422

BASELINE STUDY ON RENEWABLE ENERGY IN KENYA

About the study

The main aim of this study will be to review the existing studies and technologies on renewable energy in the country

About REREC

REREC is a government Consultant mandated with enhancement of rural electrification in rural areas. It is also tasked with the research of activities in the electrifications and renewable energy development in the Country. REREC is majorly funded by the Government of Kenya

Research Framework

Background and context Rural Electrification and Renewable Energy Corporation (REREC) is mandated with enhancement of rural electrification and promotion of renewable energy in the country. It was established under the Energy Act No. 12 of 2006 and its mandate changed under the Energy Act 2019. It became operational in July 2007. The corporation also installed a mega Solar power project in Garissa with an installed capacity of 54MW, several mini-solar power project in the school electrification program, two biogas plants in high schools and wind project in a primary school in the off grid communities.

There is a dire need for the Corporation to be able to keep itself apprised with the trending current technologies in the renewable energy sector besides mapping out all the installed renewable resources in the country and identifying their impact and actual installed capacities. This will indeed inform the policies on renewable energy and the incentives in place

Research purpose

With the Government of Kenya (GoK) promoting significantly the use of renewable energy in the country, it's also very vital to keep apprised with the newest optimal technologies in the sector so as to enhance this energy harnessing in Kenya. This information is relevant to the authorities and will ultimately guide in the development and review of the renewable energy policies and regulations and their impact thereafter.

SCOPE

The research will carefully look into the existing studies made on renewable energy right from the sources of renewable energy, products used in the projects and their manufacture, projects implementations and impacts of the renewable energy to the Kenyan socio-economic development. It will also dwell deep on the existing technologies and the potentially existent technologies in this sector, worldwide.

The research will entail accessing of data/information from relevant institutions & libraries, renewable energy innovations centres and other technologically advanced economies in the area of renewable energy.

Research Aim

- To review the existing studies done on renewable energy in Kenya.
- To establish the renewable energy technologies' readiness level in Kenya.

Specific Objectives

In order to support the above aims, the following objectives need to be achieved;

- vii. To identify all types of renewable energy resources installed in the country
- viii. To establish the penetration levels in Kenyan socio-economic zones
- ix. To establish the existing gaps in the studies undertaken in renewable energy
- x. To determine and classify the existing renewable energy technologies as either but not limited to small/basic, medium or major/advanced.
- xi. To establish the existing gaps in the technologies employed in the Kenyan renewable energy projects.
- xii. To evaluate the existing renewable energy technologies and their potentials in the Kenyan market

NB: For Qualification information, please refer to the Advertisement which is attached separately.