



TERMS OF REFERENCE

COUNTY ENERGY OUTLOOK SURVEY AND DEVELOPMENT

1. INTRODUCTION AND BACKGORUND

1.1. INTRODUCTION

Since 1970, the world has seen rapid growth in energy demand, mainly satisfied by fossil fuels. Concerns about energy security, effects of fossil fuel emissions on the environment, and sustained high world oil prices in the long term support expanded use of non-fossil renewable energy sources and nuclear power, as well as natural gas, which is the least carbon-intensive fossil fuel. With government policies and incentives promoting the use of non-fossil energy sources in many countries, renewable energy is the world's fastest-growing source of energy, at an average rate of 2.6% per year. Discussions on environmental problems in energy policy, particularly global warming issues, have been given much attention.

In Sub-Saharan Africa only 290 million out of 915 million people have access to electricity and the total number without access is rising. Efforts to promote electrification are gaining momentum, but are outpaced by population growth. Sub-Saharan Africa is rich in energy resources, but very poor in energy supply. Making reliable and affordable energy widely available is critical to the development of a region that accounts for 13% of the world's population, but only 4% of its energy demand. Many governments are now intensifying their efforts to tackle the numerous regulatory and political barriers that are holding back investment in domestic energy supply, but inadequate energy infrastructure risks putting a brake on urgently needed improvements in living standards.

According to the draft Energy Policy 2015, the level and the intensity of energy use in a country is a key indicator of economic growth and development. The Kenya Vision 2030 identified energy as one of the infrastructure enablers of its social economic pillar.

1.2. BACKGROUND TO THE COUNTY ENERGY OUTLOOKS

The Fourth Schedule of the Constitution of Kenya (2010) places the mandate for planning and developing electricity and gas reticulation on both national and county governments. The national Ministry of Energy and Petroleum (MoEP) has developed the Energy Policy 2015 and Energy Bill 2015 in consultation with the public. The two documents have received parliamentary approval and await assent to law by the President. The Energy Bill 2015 stipulates in Section 5-6 that the Cabinet Secretary of the MoEP shall develop, publish and review strategy plans with respect to midstream and downstream petroleum, coal, renewable energy and electricity distribution to ensure delivery of reliable energy services at least cost. The Bill further states that each County Government shall develop and submit a county energy plan to the



Cabinet Secretary in respect of its energy requirements. The Cabinet Secretary shall then consolidate the plans into an integrated national energy plan which shall have a planning horizon appropriate to the nature of the service and shall be reviewed regularly. To effectively develop these plans, Counties require sufficient baseline data. The current available information on energy is not sufficient to support development of the plans. This is a critical gap that needs to be addressed to enable the counties and MoEP meet its mandate as stipulated in the laws and regulations. It is against this background that the Sustainable Energy Access Forum Kenya (SEAF-K) intends to spearhead the development of County Energy Outlook reports.

1.3. Sustainable Energy Access Forum Kenya (SEAF-K)

WWF-Kenya in consultation with key stakeholders in the energy sector representing private sector players, CSOs and several development partners involved in advocacy, projects and promotion of energy access, especially Renewable Energy, has found it fit to engage in a process that would unite efforts of key stakeholders in the energy sector, towards creating synergies that would lead to development of a scalable and vibrant sector. This process has led to the formation of the Sustainable Energy Access Forum of Kenya (SEAF-K).

SEAF-K brings together various energy sector players in Kenya with the aim of enhancing multi-stakeholder engagement to address the various challenges encountered in the sector and with a specific vision to see all Kenyans have total access to clean and sustainable energy. The Forum is currently hosted by WWF-Kenya who also acts as the Secretariat.

As part of its Strategic plan, the Forum, with support from WWF-Kenya, would like to spearhead a process of developing County Energy Outlooks (CEOs) in a number of counties. They will assess and document the current County energy status, including supply and demand of both conventional and untapped energy resources. The CEOs will complement ongoing County energy planning framework process under the SE4All initiative by providing critical baseline information to inform energy planning. The process is also expected to further strengthen the capacity of Counties in energy baseline data collection and planning processes.

In line with this, an initial survey has been organized to develop Kitui County Energy Outlook in partnership with the Kitui County Government

1.4 Area of Focus

Kitui County is located in the former Eastern Province of Kenya, about 160 km from Nairobi. Kitui is one of the largest counties in the country covering an area of 24,385.1 km² and has a population of 1,012,709 (2009 census). The County has eight sub counties which are further divided into forty wards made up of 247 villages.



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Agriculture is the backbone of Kitui County as crops produced are consumed locally with the surplus being sold to traders from Nairobi and neighboring towns. Tourism is a low-key economic activity with some of the residents building hotels and lodges that serve visitors coming to the main towns for business and leisure such as Mwingi National Reserve, South Kitui National Reserve as well as the Tsavo East National Park. Following its mandate as a County, The County Government of Kitui developed its long-term development blue print, “Kitui Vision for economic and social transformation” aimed at guiding its economic and social development for the next ten years up to the year 2025. The envisaged County long-term development blue print covers the economic and investment zones which were endorsed by stakeholders in November 2013. These economic and investment zones are:

1. Kyuso-Mumoni-Tseikuru
2. Mui Basin
3. Mwingi Town and Environs
4. Kitui County Headquarters and Environs
5. Kanyangi-Kwa Vonza-Kanyonyoo
6. Mutomo-Ikutha-Kanziko

The County has proven reserves of coal in Mui Basin. The County is among the largest producers of charcoal in the county. The charcoal is sold to neighboring towns especially Nairobi.

To meet the increasing energy demand, the county is supporting the extension of rural electrification to all the county wards schools, institutions, health facilities, boreholes and households and identifying and increasing access to alternative renewable green energy to households and institutions within the county in collaboration with government agencies and other stakeholders.

One of the planned activities for this financial year is to develop County Renewable energy master plan. The proposal to support the county to develop its energy outlook comes at an opportune time.

1. OBJECTIVE OF THE ASSIGNMENT

The main objective of the assignment is to develop Kitui County Energy Outlook report.

The specific objectives of the assignment include:

1. To oversee energy data collection process



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2. To clean and synthesize baseline data collected
3. To analyze the data, draw logical conclusions and prepare report
4. To draw recommendations to improve future programming, design and management of Energy related Initiatives;

2. METHODOLOGY

The assignment will adopt the following approaches:

1. Review and finalise data collection tools already developed by SEAF-K and guide the data collection process to ensure quality control
2. Desk top review of relevant programme documents, literature and secondary data
3. Data analysis using the best available analysis tools in the market with support from SEAF-K and WWF-Kenya's Centre of Excellence

3. SCOPE OF WORK/TASKS

The consultant(s) will be expected to:

1. Oversee the accomplishment of the assignment and ensure quality control of the data analysis and report writing processes.
2. Facilitate Kitui stakeholder's inception meeting, review meetings and validation meeting.
3. Map energy stakeholders in the county
4. Initiate formation of SEAF-K Kitui chapter.
5. Map current and projected energy demand and supply in the county

4. DELIVERABLES

Key deliverables are:

- a. Inception report
- b. 1st draft CEO report
- c. Final CEO report
- d. Package database



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5. REQUIREMENTS

5.1 Education

Minimum of a master's degree in energy, project planning and management, monitoring and evaluation, economics, natural resources or any related field.

5.2 Experience

- Minimum of 5 years' experience in renewable energy, project planning and management, monitoring and evaluation and other related fields
- Experience in writing reports
- Previous experience in similar assignments
- Computer literate (Microsoft: Word, Excel, PowerPoint) with hands on knowledge of data entry and analysis tools such as SPSS, Stata and GIS software.
- Work well under pressure and manage conflicting priorities;
- Excellent writing, social, communication and interpersonal skills;
- Good knowledge of the geographical area

2. IMPLEMENTATION ARRANGEMENTS

The consultant(s) will be contracted by WWF-Kenya in consultation with Kitui County Government and Sustainable Energy Access Forum Kenya (SEAF-K) Interim Steering Committee.

3. TIME DURATION

The assignment will take 30 working days spread over a period of two months.

6. MODE OF APPLICATION

Interested candidates should send their applications including;

1. Technical proposal articulating the consultant(s) understanding of the TORs and proposed methodology to undertaking the assignment. The proposal should be presented in word document, Font type: Times new Roman; font Size: 12, Spacing 1.15 and not exceed 15 pages (exclusive of annexes outlined below).



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- a. Consultant(s) CVs.
 - b. Citation of similar works and where applicable links to the reports
 - c. Any relevant registration documents
2. A detailed financial proposal clearly indicating all the costs associated with the assignment
 3. Clear work plan indicating milestones within the stipulated timeline

The applications should be sent to the Energy and Climate Change programme Coordinator, on podhiambo@wwfkenya.org, the procurement officer on kenya.procurement@wwfkenya.org and cc imwaura@wwfkenya.org on or before **8th May, 2017 at 1700 hours** EAT.