



MINISTRY OF ENERGY AND PETROLEUM

CONCEPT NOTE

FOR

2025 MASHUJAA DAY ENERGY WEEK

13TH TO 19TH OCTOBER 2025,

KITUI TEACHERS TRAINING COLLEGE

KITUI COUNTY

THEME:

TRANSFORMING LIVES THROUGH SUSTAINABLE ENERGY
SOLUTIONS

EXECUTIVE SUMMARY

Mashujaa Day is an annual National event celebrated on October 20th to honour the country's heroes and heroines, who have made remarkable contributions to the nation's progress. It is a moment of reflection, unity, and celebration of the spirit of service and innovation that continues to shape Kenya's development. This year's Mashujaa Day will be held on Monday, 20th October 2025 in Kitui County.

The Mashujaa Day 2025 will focus on energy as a driver of economic and social development as part of National Celebrations, marked as the **"Energy Week 2025"**. The Energy Week event will be held from 13th to 19th October 2025 at Kitui Teachers Training College (KTTC) in Kitui County. The theme for the Energy Week 2025 is **"Transforming Lives through Sustainable Energy Solutions"**. This event aligns with Sustainable Development Goals (SDG) 7 and Kenya's Vision 2030 and the Bottom-Up Economic Transformation Agenda (BETA) by promoting sustainable energy solutions across electricity generation, heating, cooling, petroleum, and coal.

The main objective of the Energy Week is to raise awareness and drive actions toward sustainable, inclusive, and modern energy access for all; promote Science, Technology, Engineering and Mathematics (STEM) career paths and innovation in the energy sector among the youths, facilitate knowledge exchange and skills transfer, foster investment and partnerships in harnessing available energy resources for job creation and economic development and showcase impactful community-based energy projects and innovations. This national event will bring together government leaders, development partners, private sector including micro, small and medium enterprises (MSMEs), civil societies, youth, and communities to engage in meaningful dialogue, innovation showcases, and policy exchange around energy access, efficiency, clean cooking, and green jobs.

The event will be graced by high-level dignitaries, expert panels, community dialogues, exhibitions, and youth-led competitions thus positioning energy as a catalyst for national development, economic growth, and social inclusion. The key expected outcomes include increased public awareness on energy issues, strengthened commitments and partnerships for increased energy access, inspiration of youths to pursue energy innovation and STEM related careers, documentation of available opportunities and community challenges in energy, enhanced implementation and adoption of technological innovations within the community.

INTRODUCTION

Kenya's long-term development blueprint, Kenya Vision 2030, aims to transform the country into a newly industrialized, middle-income nation that provides a high quality of life for all its citizens within a clean and secure environment. The Vision 2030 is anchored on economic, social, and political pillars, and it identifies energy as an enabler of national development. The Vision is implemented through its Medium-term Plans (MTPs) and Bottom-Up Economic Transformation Agenda (BETA). In pursuit of this, Kenya is committed to achieving SDG 7, which seeks to ensure universal access to affordable, reliable, and sustainable energy for all by the year 2030.

To realize these national and international development goals on energy, the Government has developed legal, policy and implementation frameworks, which include: Energy Act Cap. 314, Petroleum Act Cap. 308, National Energy Policy, National Petroleum Policy, Integrated National Energy Plan (INEP) that includes the County Energy Plans (CEP), among others. Kenya has set the strategic direction on energy in line with the Paris Agreement and the Sustainable Development Goal (SDG) No. 7 on universal access to affordable, reliable, sustainable modern energy for all by 2030, and net zero by 2050. Key achievement is the development of the National Policies on Energy and Petroleum.

The energy sector remains a cornerstone of Kenya's socio-economic transformation as it; fuels investments, drives innovation, supports industries and businesses, and helps create job opportunities thus contributing to poverty reduction and improvement in quality of life. At the household level, increased access to clean energy contributes to improved health and livelihoods especially for women, youth, and the vulnerable in the community.

The Government is committed to: realize universal access to electricity and clean cooking by 2030, diversify the energy mix, enhance energy efficiency and foster innovations. It is also committed to promote sustainable petroleum resource exploitation; ensure security of supply of petroleum products and enhance LPG uptake in the country by increasing penetration to 70% by 2028 and to further increase consumption per capita from 7.5kg/yr to 15kg/yr by 2030.

Kenya's energy mix includes both renewable and non-renewable energy. The country has made significant progress in scaling up renewable electricity generation from geothermal, hydro, wind, solar, biomass among others. Currently, over 90% of Kenya's electricity generation is from renewable sources, positioning the country as a regional leader in clean energy development. In addition to electricity generation, renewable energy solutions are gaining traction in the heating and cooling sectors as productive use of energy. Solar thermal technologies are being adopted for domestic water heating, while energy-efficient cooling systems are being integrated into commercial and industrial settings.

The non-renewable sources of energy include petroleum, coal and nuclear. Petroleum remains a critical source of energy as cooking and transport fuel, as well as for industrial use. Kenya continues to manage petroleum resources through strategic imports and emerging upstream exploration. Meanwhile, coal usage for heating is on the rise, while coal exploration in the country has seen little progress. In addition, nuclear power is at the inception stage. These diverse energy sources play a complementary role in achieving Kenya's sustainable development goals.

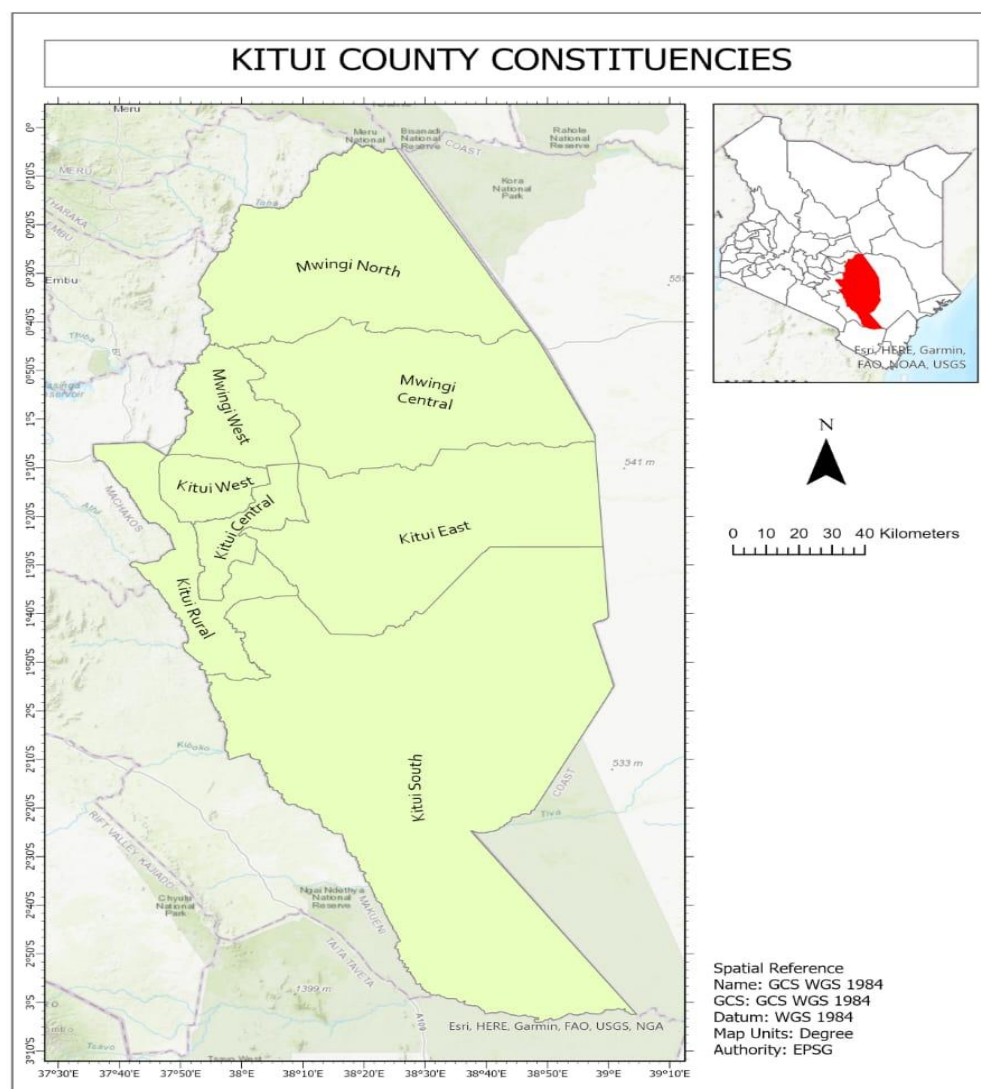
National access to electricity has increased from 23% in 2013 to about 75%, with rural household access at 37.3% and urban household access at 90%. Approximately 34.4% of the Kenyan population have access to clean cooking, which include use of Liquefied Petroleum Gas (LPG), electricity, bio-gas, bio-ethanol, solar and improved biomass cookstoves (ICS). In addition, access to petroleum products in the country is guaranteed by ensuring that the demand for the products is met through the imported and supplied quantities, averaging 5.9 million MT annually as at 2024.

As the country prepares to celebrate Mashujaa Day 2025 in honour of the country's heroes and heroines who have made significant contributions to the country, the Ministry of Energy and Petroleum will leverage on this symbolic day to hold the Energy Week 2025 under the theme **“Transforming Lives through Sustainable Energy Solutions”** from 13th to 19th October, 2025 at KTTC in Kitui County. The Energy Week 2025 aims to create a

platform for dialogue, innovation, investment, and collaboration to accelerate progress toward universal energy access.

BACKGROUND OF KITUI COUNTY

Kitui County is among the 47 counties in Kenya, located in the Eastern Region of the country. The county has a population of about 1.2 million people (KNBS, 2024) and an area of 30,496 km². Kitui County shares its borders with seven counties; Tharaka-Nithi and Meru to the north, Embu to the northwest, Machakos and Makueni to the west, Tana River to the east and southeast, and Taita-Taveta to the south as in the map below:



The name Kitui is derived from Kamba language that refers to a place where iron goods were made in an energy-intensive process which was primarily relying on heat generated from burning fossil fuels. The County is rich in resources such as coal reserves in the Mui Basin, limestone, iron ore and sand. Kitui County is part of Arid and Semi-arid lands of Kenya that account for 80% of the land mass. The major economic activities in the county include: agriculture, livestock, mining and quarrying, trade and commerce, manufacturing and cottage industries.

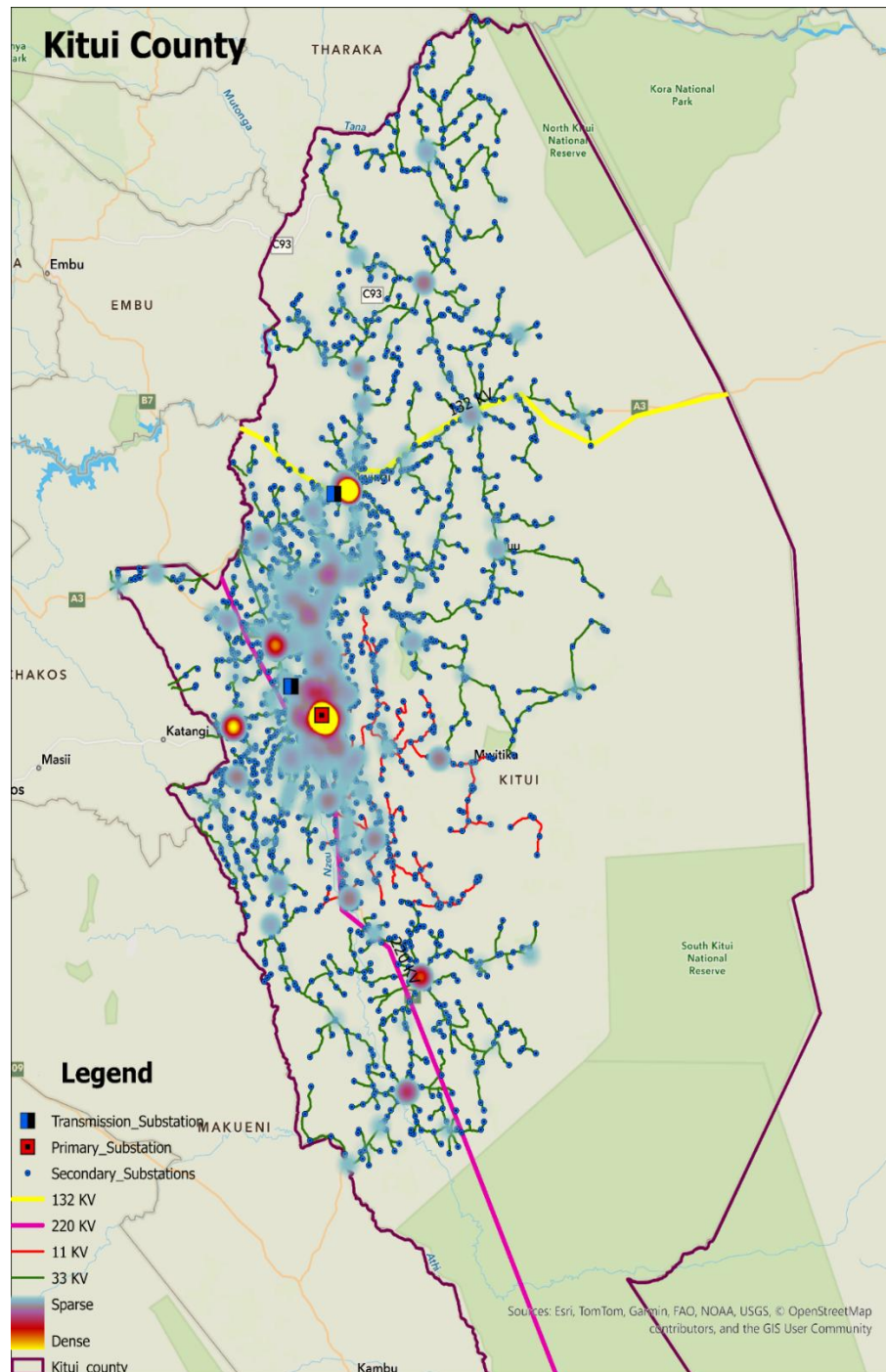
Kitui County Energy Profile

Kitui County is actively advancing its energy infrastructure and sustainability initiatives, focusing on renewable energy, grid expansion, and climate resilience. The Kitui County Integrated Development Plan (2023-2027) aims to contribute to SDG 7 by promoting the adoption of clean cooking and renewable energy technologies. Some of the initiatives in the County include:

- Solar Power systems to institutions far from the grid, providing electricity to schools, health facilities, boreholes among others.
- The Rural Electrification and Renewable Energy Corporation (REREC) and Kenya Power through the Last Mile Project electrified 8000 households in 2022 to enhance electricity access in the rural areas of Kitui County (Kitui CIDP, 2023).
- Grid and Infrastructure Development - Transmission Line Enhancements: The 132kV Mwingi-Kitui-Wote-Sultan Hud transmission line, Phase 1 was completed in 2021.
- Access to clean cooking: As of 2024, only 24.4% of households in Kitui county had access to Clean cooking access while 75.4% of the households relied on unclean and inefficient cooking methods (KNBS, 2024).
- E-Cooking Initiatives: Kitui has been designated as an e-cooking hub due to its high reliance on firewood for cooking providing an alternative to the urban population with access to electricity.

The Ministry of Energy and Petroleum is committed to support the County to address the gaps in accessibility and affordability with the objective of increasing access to electricity

and uptake of clean cooking technologies. The map below shows that rate of electrification in Kitui County.



OBJECTIVES

The main objective of the Energy Week 2025 is to showcase milestones in the energy sector through policy development and implementation, technology and innovation. This event aims to:

1. Raise public awareness on sustainable energy solutions including clean cooking, renewable energy, energy efficiency, responsible mining and eco-friendly utilization of energy resources.
2. Promote Science Technology Engineering and Mathematics (STEM) education and innovation in the energy sector among the youth and educational institutions.
3. Facilitate knowledge exchange and skills transfer through partnership among stakeholders including government, private sector, academia, local communities and Civil Society Organizations (CSOs).
4. Foster investment and partnerships in harnessing available energy resources for job creation and economic development.
5. Showcase impactful community-based energy projects and innovations.

TARGET AUDIENCE AND STAKEHOLDERS

- National Government -MDAs
- County Governments
- Development partners
- Micro, Small and Medium Enterprises (MSMEs)
- Sector Associations
- Women, Youths, Persons With Disabilities (PWDs) and special interest groups
- General public and community organizations
- Non-Governmental Organizations, Community Based Organizations and Religious Associations
- Private sector
- Academic and training institutions (schools, TVETs and Universities)
- Media houses

KEY ACTIVITIES

The Energy Week will include: exhibitions; panel discussions; presentations; launch of projects; career fair, innovation and competitions; creatives arts and sports; Medical cp; and tree planting exercise; roadshows as highlighted below:

1. Exhibitions

The exhibition will run alongside the celebrations to showcase innovation, investment, and community impact in Kenya's energy sector. Participation will include:

- MDAs
- County Governments
- Development Partners, NGOs
- Private sector
- Universities, research institutions, and innovation hubs
- Associations and cooperatives

2. Awareness Creations

The Ministry will create awareness to the community on the activities to be undertaken during the Energy Week and Mashujaa day celebrations.

3. Tree planting

The youth groups, TVETs, Universities, Local communities, in the County will be engaged in tree planting to contribute to the target of 15 billion trees by 2032. This aims to reduce the climate change impact, restoration of degraded lands.

4. Panel discussions

a) Promotion of Science Technology Engineering and Mathematics (STEM) in Energy

This panel will focus on sensitizing and motivating the youths to uptake careers on STEM. The session will also discuss the role of digitalization in the energy sector and how youth play a key role in driving the shift in transformation into a digital economy and career opportunities.

b) Electricity Generation, Transmission, Distribution, Rural Electrification and Regulations

This panel will explore the opportunities, challenges, innovations, policies, and strategies across the electricity value chain and identify pathways for building a reliable, efficient, and sustainable power infrastructure.

c) Oil and Gas sector in Kenya

This panel session will focus on the oil and gas sector and its role in driving the Kenyan economy. Key sub-topics to be addressed include: current state of oil and gas exploration and production, policy and regulatory frameworks, Investment opportunities and challenges, environmental and social impacts, role of oil and gas in Kenya's carbon mitigation strategies and regional and geopolitical implications.

d) Coal responsible mining and utilization

This panel focuses on coal policy, standards and regulations, sector governance and legal frameworks, coal value chain, coal status in Kenya, local content, environmental and social safeguards, responsive mining and utilization, statistics, coal potential, investment and economic viability, community engagement and perception, coal in energy mix and industrialization and government commitment.

e) Access to Clean Cooking

This panel focuses on the current status, challenges, and opportunities in scaling up clean cooking solutions across Kenya, especially in rural and peri-urban areas. It will explore the roles of policy, innovation and financing, behavior change, and public-private partnerships in accelerating the transition to modern energy cooking services.

f) Energy and Economic Transformation: Productive Use of Electricity

The panel focuses on; economic and social impact of electrification, e-mobility market and infrastructure, e-cooking promotion and adoption, use of electricity in cooling for productive use, capacity building, integrated electrification and renewables, financing and investment, policy, regulations, and standards.

g) Biofuels

This panel will explore how Kenya can advance its economy through biofuels and petrochemicals and reduce the emission from fossil fuels in meeting its National Determined Contributions (NDC). The panel will highlight the policies, opportunities and challenges in the use of Biofuels and Petrochemicals.

f) Presentation

▪ Gender Equality and Social Inclusion - County

Gender Equality and Social Inclusion (GESI) plays a key role in Kenya's progress towards its energy transition and achievement of SDG 7. The presentation will highlight mainstreaming of GESI across energy policies, programs, workforce development, and entrepreneurship. It will also spotlight community voices, champions, and inclusive innovations that are breaking barriers and transforming lives.

5. Launch of projects

- a. NOCK - to provide 24,000 gas cylinders (3,000 cylinders per constituency)
- b. REREC - Last Mile Electrification Projects
- c. KPLC - Last Mile Electrification Projects- sub-station
- d. MoEP - Briquetting machines and efficient charcoal kilns
- e. KETRACO - Kitui - Wote line

6. STEM Career Fair, innovation, technology, and competition

Basic education institutions, Technical and Vocational Education and Training (TVET) institutions and Universities will be invited for the STEM innovation, technology and competitions through the State Departments in the Ministry of Education. Awarding of the best innovators will be done during the Energy Week.

Subsequently, there will be mentorship sessions where all the careers in the energy sector will be discussed with the participants to enable them understand and pursue the available opportunities in the sector.

7. Medical Camp

Health is a critical enabler of productive participation in energy access and sustainability initiatives as part of the MoEP commitment to community well-being and inclusive development. A medical camp will be set up to provide health checkups for the community.

8. Sports and creative arts

Sports and creative arts during the Energy Week will be used as a mass mobilization and a public sensitization strategy. Building on past outreach models that utilized community-based activities to thrust awareness e.g. clean-up activities, cultural festivals, sports offer a high visibility platform to reach out to huge numbers of varied individuals. By incorporating energy conservation messages in competitive and recreational sports, the program creates an interactive and inclusive environment that engages young people, local communities and institutions hence raising visibility and ownership of the Energy Agenda at the grass root level. Sports also offer a platform for the event sponsors to promote their companies and organizations.

EXPECTED OUTCOMES

1. Enhanced public awareness, appreciation and support of eco-friendly utilization of available energy resources and efficiency
2. Strengthened commitments, partnerships and collaborations for energy access
3. Youth inspired to pursue energy innovation and STEM related careers
4. Feedback from the community on available opportunities and challenges in energy
5. Actionable policy, regulations, and interventions spurring from stakeholder discussions
6. Enhanced implementation and adoption of technological innovations within the community
7. Improved public perception on Government operations and projects