

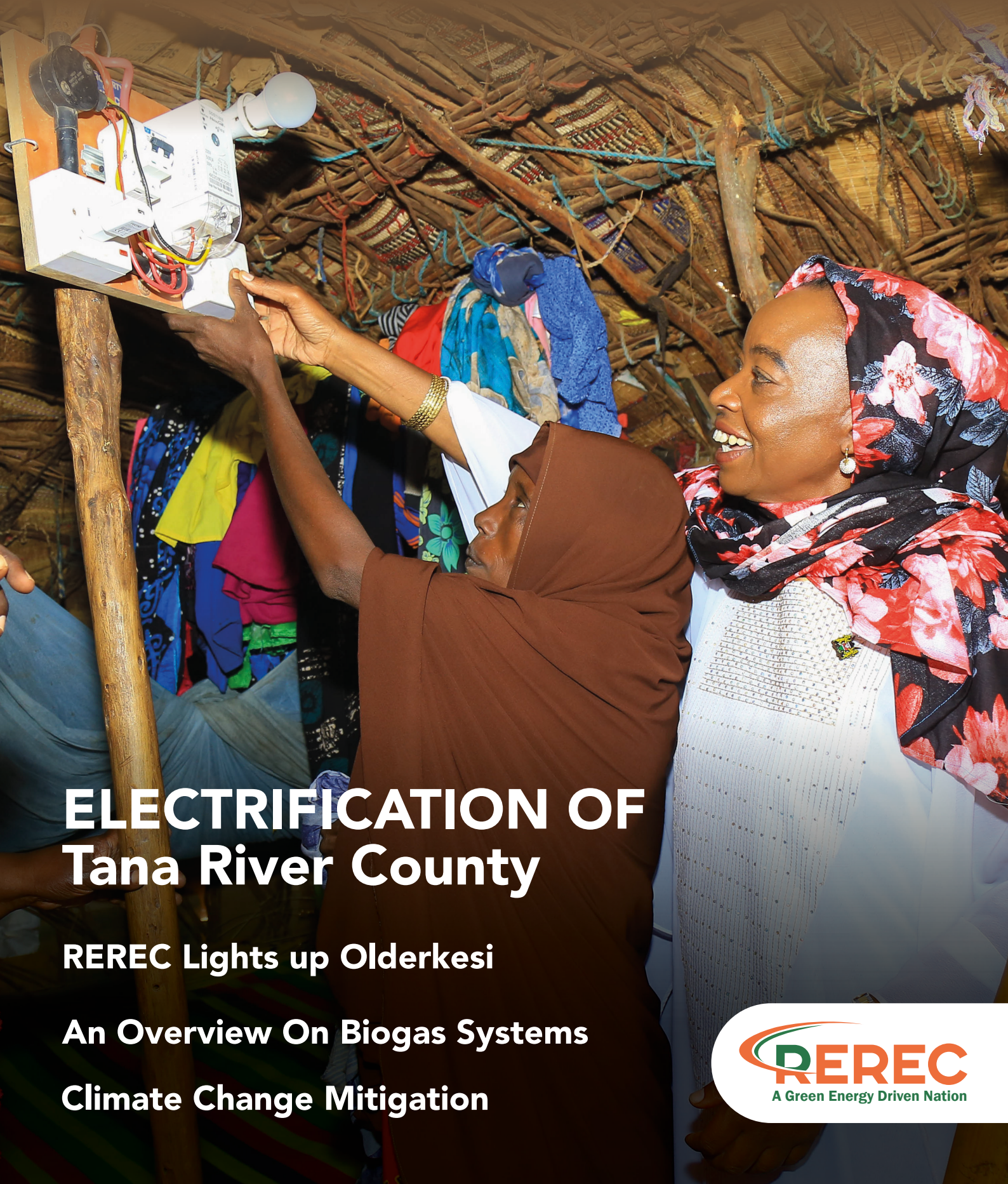


July - September 2022

The Highlight

Quarterly Newsletter

Issue No. 9



ELECTRIFICATION OF Tana River County

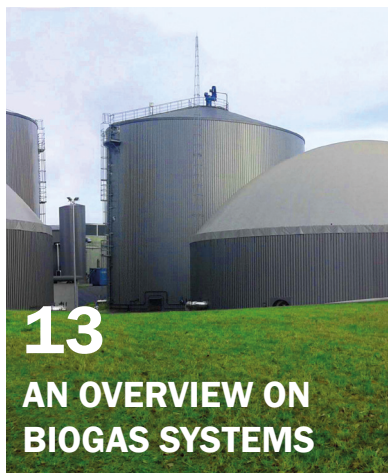
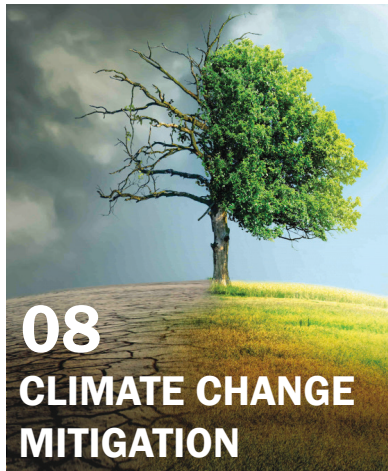
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Editor's Note

Welcome to the 1st edition of The Highlight newsletter in the 2022-2023 Financial Year, where we bring you updates of the Corporation's undertakings in the last 3 months.

Scaling up the levels of rural electrification continues to top the Corporations' agenda. To this end, the Corporation Commissioned the Bura – Bilbil – Charidende electricity line and Olderkesi mini-grid power plant in Tana River and Narok Counties respectively. We explore the economic impacts of these projects to the beneficiaries.

This issue also highlights stakeholder engagement activities carried out by the Corporation during this period. We interacted with both internal and external stakeholders through various initiatives; including the customer engagement week, courtesy calls, public barazas and CSR activities.

We further delve into the renewable energy status in the country. On this, we explore the mitigating interventions that the country should put in place in order to harness renewable energy from sources such as solar, geothermal, tidal waves, wind, mini hydros, co-generation green hydrogen and even municipal waste as opposed to using fossil fuel generated power.

Read about all these and more in this issue of The Highlight. As usual, we look forward to your comments, questions and contribution.

We love feedback.
Engage us through:
info@rerec.co.ke

Wangari Githii



Electrification of Tana River County to spur Economic Growth



A wave of excitement and optimism swept through Bilbil and Charidende areas in Tana River County as REREC commissioned the Bura – Bilbil – Charidende electricity line.

As you make your way to Bilbil Dispensary, where the commissioning event was held, you cannot help but notice the women by the roadside selling fresh camel milk or the vastness of the unutilized land covered in acacia trees with a few households scattered across the area.

In a few years, this region could look totally different as electricity has enormous potential to open up an area for socio-economic activities and encourage income generating initiatives.

The Bura – Bilbil – Charidende electricity line, commissioned by

Over the last 10 years, the Government has funded rural electrification projects to a tune of Kshs 120.3 Billion across all the 47 counties

the Cabinet Secretary- Energy, Ambassador Dr. Monica Juma, is part of the larger Electrification of Public Facilities Project (EPFP) that the Corporation is implementing in 36 constituencies across the country.

The project will see the electrification of over 35,000 households and 1200 public facilities including market centers, health centers, educational institutions, tea buying centers, coffee factories, and administration centers among others.

While commissioning the project, the Energy Cabinet Secretary said that the government has made great strides in the delivery of energy to rural areas, and far off-the grid regions, adding that electricity coverage has improved from a meagre 4% in 2006 to 75% today.

“Over the last 10 years, the Government has funded rural electrification projects to a tune of Kshs 120.3 Billion across all the 47 counties including far flung areas that are far away from the national grid. 82% of REREC’s funding

comes from the exchequer, a clear indication of the deliberate effort taken by the Government to fund rural electrification while 18% is from development partners such as multi-lateral agencies, bilateral partners and non-state actors.” Said Dr. Juma.

Speaking during the same event, REREC’s Board of Directors’ Chairperson, Ms. Wacuka Ikua, added that the Corporation has been keen to support the Government’s Digital Literacy Programme (DLP) by electrifying a total of 22,384 public primary schools throughout the country. Out of these public Schools, 4,786 were connected using solar power because they are located far away from the national grid.

“ **Stima si ya kuwasha taa tu** ”

EPFP project to make maximum use of the power to transform their lives, urging them to start economically viable business ventures.

The Corporation champions a campaign dubbed “stima si ya kuwasha taa tu” with the aim of encouraging people to make use of the electricity connected in project areas to empower themselves economically.

Hopefully, the electrification of this small center will change the economy of this region significantly. Within no time, women will have a place to store their milk so that it does not go bad, boreholes can be sunk in this region and the people of Bilbil and Charidende can enjoy unlimited water



Ms. Wacuka added that the Corporation implemented projects amounting to Kshs 10.432 billion under the Transformer Maximization Programme. This involved the installation of transformers and connection of all households within 600 meters radius of the transformer. A total of 2,700 transformer maximization projects have been implemented to date.

The Corporation’s CEO Peter Mbugua urged the beneficiaries of the

These benefits will be shared across all the 36 counties and 131 constituencies

for themselves, their livestock and also for farming. These same benefits will be shared across all the 36 counties and 131 constituencies that will benefit from the Electrification of Public Facilities Project.

The Electrification of Public Facilities Project (EPFP) is jointly funded by the Government of Kenya and Arab Development Partners to a tune of US \$57. Million, approximately Ksh. 6.2 billion. It is expected that the whole project will be complete by 31st December, 2022.

Excitement as REREC Lights up Olderkesi



Members of the Olderkesi community during the project commissioning

For the shop owners at Olderkesi shopping center in Narok West Constituency, Friday, October 7, 2022, was not business as usual. Earlier that day, the Corporation had officially commissioned Olderkesi mini-grid power plant in the area, marking a major milestone in the journey towards providing the community with clean energy, and subsequently spurring business activities in the not so vibrant market center.

The small shopping center was not in a hurry to close and the people were not in a hurry to leave. It was song, dance and ululations with melodic Maasai tunes, serenading the cold windy night. The moon, as if on cue, had shown up in its splendor, complementing the street lights that had now taken over the shopping center.

Major milestone in the journey towards providing the community with clean energy, and subsequently spurring business activities



GM Research and Renewable Energy, Eng. Fred Ishugah Unveils the Olderkesi Mini Grid project

Lying somewhere between the Loita/ Ngurman hills and the Maasai Mara National Reserve, Olderkesi is 50km off the national grid and is located more than 100 kilometres from Narok town.

The Olderkesi mini-grid power plant is a product of the JKUAT Sustainable Energies and Entrepreneurship Development (SEED) project through a five-year initiative funded by the German Academic Exchange Service (DAAD), and supported by the Technical University of Munich. The project is jointly implemented by JKUAT and Rural Electrification and Renewable Energy Corporation (REREC). The SEED Centre project, which commenced in 2020, sought to ensure that the community has access to a sustainable source of energy by supplementing the efforts made by the national government in its efforts to ensure universal access to electricity.

While lauding different partners and stakeholders for driving the project to a successful completion, REREC's CEO who was represented at the function by Eng. Fred Ishuga, General Manager for Research and Renewable Energy, reaffirmed the Corporation's commitment in expanding the mini-grid from its current capacity of 12KW to benefit more community members.



Members of the Olderkesi community at the Olderkesi mini grid

“ The SEED Centre project sought to ensure that the community has access to a sustainable source of energy ”

He further urged Members of Parliament and County Government to partner with REREC through the 'Matching Fund Facility', in order to increase the pace of rural electrification in Narok County. The Matching Fund Facility is an innovative way that REREC uses to fund project implementation

whereby the Corporation contributes a shilling for a shilling contributed by partnering entities.

The Olderkesi mini grid has a triple objective of providing clean renewable energy to rural communities that are off-grid, spurring entrepreneurial ventures as a result and providing a platform for multi-disciplinary training and research



Members of the Olderkesi community during the project commissioning



Street lights at Olderkesi trading center

Energy Saving Tips



World over, it is becoming evident that one of the most effective ways to bring down the cost of operations in organizations is through the adoption of energy efficiency practices.

The more energy you conserve, the more you save on your electricity bill, and who doesn't appreciate a quick save? It's an absolute win all-round!

We highlight a few simple tips that will help you conserve energy at home or at your place of work.



Switch off and unplug unused electronics such as computers, laptops, printers, TVs, air conditioners etc.



Maximize the use of natural light; draw back curtains and switch off the lights.



Replace traditional bulbs with LEDs (Energy efficient bulbs).



Use energy efficient appliances (check star(s) labelling - where the highest performing appliance has 5 stars).



Do not open the fridge or freezer unnecessarily.



Sensitize and encourage your employees/family to save and come up with innovative ideas on energy efficiency.

Let's
SAVE THE
WORLD
TOGETHER



REREC, I.E.K partners on Mentorship programme



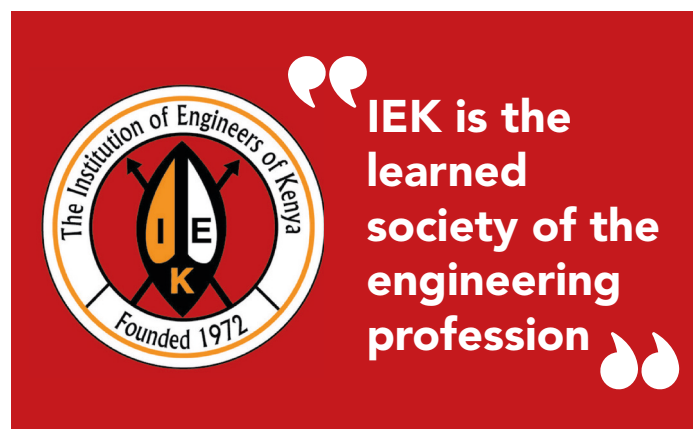
A delegation from the Institute of Engineers of Kenya (I.E.K) led by the CEO Eng. Linda Atieno paid a courtesy call to REREC at the Corporation's headquarters. The IEK CEO was accompanied by Eng. Paul Ochola - council member, Gor Ogutu - editorial content and Maria Monayo Communication officer. The team was received by Wangari Githii, Advocacy Manager and Christine Ndwiga, Corporate Communications Manager.

The Institute of Engineers of Kenya (I.E.K) in partnership with Rural Electrification and Renewable Energy Corporation (REREC) has developed a Memorandum of Understanding (MOU) regarding mentorship in areas of specialization, content generation and capacity building.

The IEK team emphasized on the immense value of such collaborations, adding that this will pave way to the sharing of fundamental ideas and processes in the Energy Sector.

IEK is the learned society of the engineering profession and co-operates with national and other international institutions in developing and applying engineering to the benefit of humanity.

The learned Society offers seminars, lectures, publications and training to its members, enabling them to keep up with the technical and industrial developments, management aspects of engineering, changes in technology and relevant developments in Kenya and elsewhere.



The Corporation remains steadfast in expansion of the energy infrastructure and technologies in renewable energy to provide clean and more efficient energy that will encourage the growth of the economy and help in environmental conservation.

Renewable Energy Feed-in-Tariff System

The Energy Act provides for a Feed-in-Tariff (FiT) System aimed at diversifying the generation of electricity through renewable energy sources; encouraging local distributed generation, thereby reducing demand on the network and the technical losses associated with transmission and distribution of electricity over long distances; encouraging uptake of, and stimulating innovation in, renewable energy technology; and reducing greenhouse gas emissions by lessening reliance on non-renewable energy resources.

The Energy Act mandates the Cabinet Secretary to make regulations necessary for the administration and implementation of the FiT system. Currently, there exists a FiT policy (2008) and the FiT application and implementation guidelines which set out the procedures for applying for and implementing the FiT system. The policy sets the applicable tariffs for wind, small hydro and biomass sources, for plants with capacities not exceeding 50 MW, 10 MW and 40 MW respectively. The policy was revised in 2012 to introduce improvements to the FiT calculation model and to include a linear

It is expected that the existing FiT policy, connection guidelines for Small-Scale renewable generating plant and the application and implementation guidelines will inform the FiT regulations

interpolation method to adjust the tariff for the actual capacity of the generation project.

The policy specifies the contents of a standardised Power Purchase Agreement (PPA)(which applies to all technologies) for both up to and above 10 MW plants connected to the grid. The FiT applicable at the time when a PPA is signed is the fixed value which will apply over the 20-year life of the PPA. Renewable energy projects which are larger than 10 MW of installed capacity may be considered. However, they must pass load flow and system stability tests.

Various studies show that as of 2018, a number of investors had expressed interest in developing projects under the FiT policy, including: 104 small hydropower projects with total capacity of 579.71 MW, 19 wind

power projects with total capacity of 898.2 MW, six biomass/biogas energy projects with total capacity of 496.09 MW, solar energy projects with a total capacity of 2,519.40 MW, geothermal energy projects with a total capacity of 15 MW.

It is expected that the existing FiT policy, connection guidelines for small-scale renewable generating plant and the application and implementation guidelines will inform the FiT regulations to be developed by the Cabinet Secretary pursuant to the Energy Act.

It should be noted that for solar and wind projects, the Government is considering transitioning from FiT to a renewable energy auction mechanism that will promote competition and result in price reductions.



Climate Change Mitigation

To mitigate the effects of climate change Kenya must hasten the march towards 100 % clean energy

Climate change is one of the greatest challenges facing humanity in the 21st century. In Kenya, like many other African countries, climate change is intensifying at an alarming rate as is evident from the current unpredictable weather patterns, flood rains and at the same time drought that is ravaging many parts of the country.

According to the National Climate Change Action Plan, higher temperatures, unpredictable rainfall patterns, increased incidence of drought and floods, and rising sea levels are impacting on people across the country.

The plan further notes that it is probable that climate change will negatively impact Kenya's future development and achievement of the

goals of Kenya Vision 2030 – the long-term development blueprint – and the Government's Big Four Agenda for 2018-2022 that focuses on ensuring food and nutrition security, affordable and decent housing, increased manufacturing and affordable healthcare.

One of the mitigating interventions that the country should put in place is to enhance the promotion of investments that work towards attaining the goal of using 100% renewable energy from sources such as solar, geothermal, tidal waves, wind, mini hydros, co-generation, green hydrogen and even municipal waste as opposed to using fossil fuel generated power.

Promotion of productive use of clean heating for domestic water, industrial boilers and cooking is another mitigating intervention towards achieving the United Nations (UN) Sustainable Development Goals (SDG) number 7 and 13.

To this end, Kenya has made tremendous steps in adopting the use of renewable energy technologies to meet its energy needs.

Renewable energy currently accounts for 73% of Kenya's installed power generation capacity while 90% of electricity in use is from green sources.

This is an indication that the country is on the right trajectory.

So what measures has the Government of Kenya put in place to ensure that the country achieves the goal of 100% clean energy by 2030?

The need for the adoption and universal use of renewable energy necessitated a policy and legislation change. The Energy Act, 2019 supports the development and use of renewable energy sources and mandated the Rural Electrification and Renewable Energy Corporation (REREC) to spearhead the development of Kenya's abundant renewable energy resource to meet the ever-increasing energy needs of the country.

Through REREC, the Government has developed twenty-Six (26) solar mini-grids across off-grid Counties



Solar mini grid

of Wajir, Turkana, Marsabit, Mandera and Garissa, and also constructed the 54.6MW Garissa Solar Power Plant which is the largest grid connected solar power plant in East and Central Africa located in Garissa County.

Other initiatives include solar street lighting projects, wind and biogas plants in public primary and secondary schools, and the electrification of public facilities including schools, boreholes and market centres using solar.

The government has also established partnerships with the private sector and development partners in the implementation of renewable energy technologies to enhance electrification. For instance, the Government has partnered with the World Bank to implement the Kenya Electricity Modernization Programme (KEMP) which will connect customers in off-grid areas of Northern Kenya, Coast and Lake Victoria Region islands to electricity using mini-grids. The installation

Major milestone in the journey towards providing the community with clean energy, and subsequently spurring business activities



Solar Powered Borehole

works for the projects are currently being implemented by REREC.

Similarly, the Government, through REREC and Kenya Power, is implementing the Kenya Off-grid Solar Access Project (KOSAP). The project includes construction of solar mini-grids, solarisation of boreholes and installation of standalone solar systems in public facilities targeting



14 underserved counties. The counties are; Garissa; Isiolo; Kwale; Lamu; Mandera; Marsabit; Narok; Samburu; Taita Taveta; Kilifi, Tana River; Turkana; Wajir and West Pokot.

As a result of these among many other efforts, Kenya now has one of the most developed power sectors in sub-Saharan Africa. All this has been achieved through various initiatives which include increase in budgetary allocation and implementing proactive strategies in sourcing additional funds from development partners for implementation of projects especially in renewable energy technologies.

Moving forward, the objective is to accelerate the pace towards achieving 100% Clean Energy. According to the Energy and Petroleum Statistics Report published by the Energy and Petroleum Regulatory Authority (EPRA), Kenya has promising potential for power generation from

renewable energy sources using a least-cost approach and prioritizing the development of geothermal and wind energy plants as well as solar-fed mini-grids for rural electrification.

Testimony to this is the commitment that Kenya has made during the 27th session of the Conference of the Parties (COP 27) to the United Nations Framework Convention on Climate Change taking place in Sharm El-Sheikh, Egypt between 6th and 18th November, 2022. President Dr. William Ruto announced that there are opportunities on the continent to produce wind power, geothermal electricity and solar energy citing the case of East Africa whose hydroelectric power potential is 100,000 megawatts.

Consequently, the Head of State revealed that Kenya will partner with the United Kingdom in implementing green energy projects with the United

Moving forward, the objective is to accelerate the pace towards achieving 100% Clean Energy.

Kingdom committing that it will fast-track new green investments in the country. Some of the envisaged investments include the expansion of the Malindi solar power plant, Menengai Geothermal and the High Grand Falls Hydroelectric Power Station which is a planned hydroelectric power station across the Tana River to harnesses the energy of the Kibuka Falls among other projects.

Community Outreach in Samburu County



REREC conducting a sensitization session at Lolokwe in Samburu East Constituency

“ The electricity projects being implemented will hopefully relieve the residents of the habitual over dependency on livestock for survival ”

The Information Education & Communication Directorate held various stakeholder and public sensitization forums in Samburu County. The main objective of the sensitization meeting/Barazas was to address the issue of vandalism and the need to safeguard project materials left in the custody of members of the community, secure the Corporation's line construction materials as well as enhance project acceptability within Samburu County.

Stakeholder engagements were held with Samburu County Government, Samburu East MP Hon. Lekumontare, Lento Joni L. Jackson & beneficiaries of the ongoing projects in Samburu East and West Constituencies.

A consultative meeting was held at Wamba Market, Samburu East Constituency with the area MP Hon. Lekumontare and REREC officials regarding the status of ongoing projects being implemented in Samburu East Constituency.

REREC's officials also paid a courtesy call on the Samburu County Government to discuss ongoing collaborative opportunities that the Corporation can undertake with County and the newly established Energy Center that will be used to promote renewable energy sources.

The County was briefed on the community engagements that REREC was currently undertaking

within the region for purposes of sensitizing communities on ongoing projects and the obligations of the community.

Samburu County is one of the Counties that has been hit hard by the drought being experienced in parts of the country. The electricity projects being implemented will hopefully relieve the residents of the habitual over dependency on livestock for survival, and give the community a reason to come up with alternative means livelihood such as establishing small scale business that are self-sustaining in the long run.

AN OVERVIEW ON BIOGAS SYSTEMS

 Biomass fuel accounts for about 70% of the primary energy 

What is biogas?

It's a combustible gas produced by the fermentation (breakdown) of organic material in the absence of oxygen.

Characteristics of biogas

- Major components of biogas are Methane 50-75% (CH_4), Carbon dioxide 25-50% (CO_2), Nitrogen 0-10%, Hydrogen 0-1% (H_2)
- Can be used for cooking, cooking, drying, cooling, heating, lighting (though not very common due to other lighting options) and electricity generation
- It is carbon neutral
- Optimum PH is 6.8 to 7.2

What Materials do you need for biogas production?

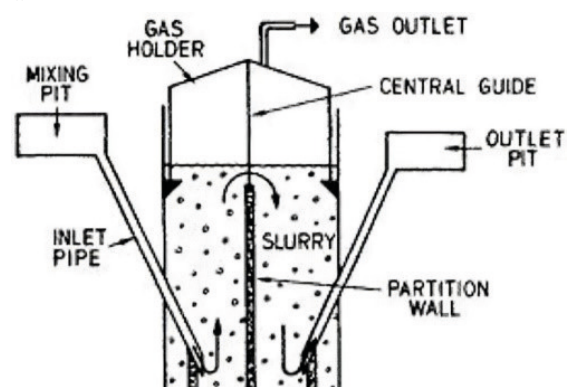
Mostly cow dung has been recognized as the chief raw material for bio-gas plants, other materials such as poultry litter and agricultural wastes can also be used, pipes, valves and tank (bio digester).

Types of Biogas



Floating Drum

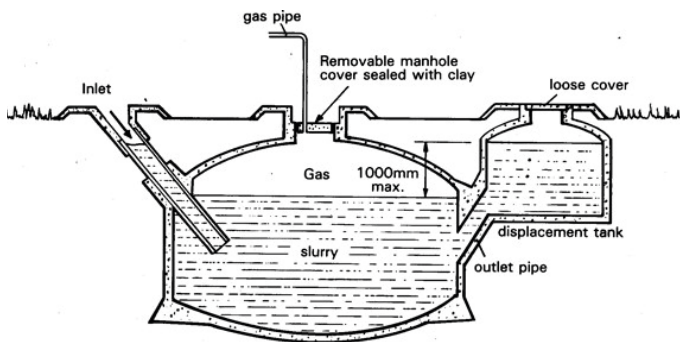
A floating-drum plant consists of a cylindrical or dome-shaped digester and a moving, floating gas-holder, or drum. The gas-holder floats either directly in the fermenting slurry or in a separate water jacket. The drum in which the biogas collects has an internal and/or external guide frame that provides stability.



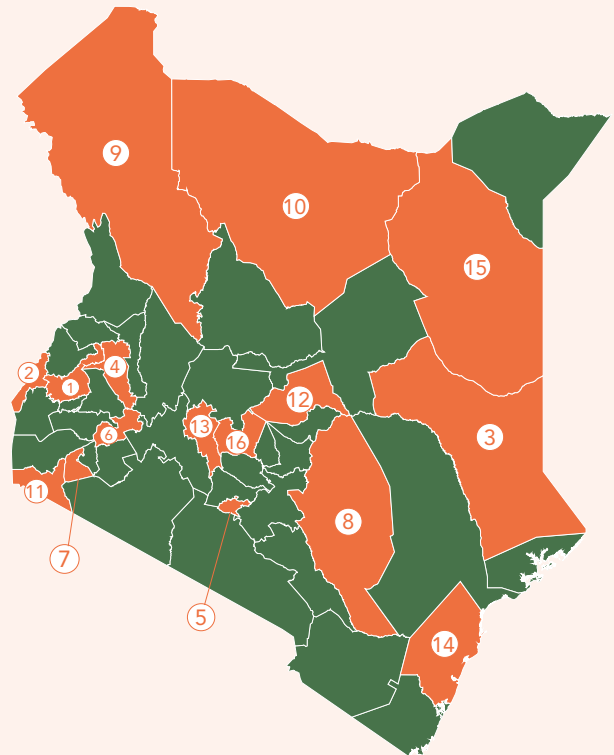
Fixed Dome



A fixed-dome biogas plant consists of an enclosed digester with a fixed, non-movable gas space. The gas is stored in the upper part of the digester. When gas production commences, the slurry is displaced into the compensating tank.



Locations of the energy centres



- | | |
|-------------------------------------------|----------------------------------------|
| 1 Bukura Centre - Kakamega County | 9 Lodwar Centre - Turkana County |
| 2 Busia Centre - Busia County | 10 Marsabit Centre - Marsabit County |
| 3 Garissa Centre - Garissa County | 11 Migori Centre - Migori County |
| 4 Uasin Gishu Centre - Uasin Gishu County | 12 Mitunguu - Meru County |
| 5 Jamhuri Centre - Nairobi County | 13 Mirangine Centre - Nyandarua County |
| 6 Kericho Centre - Kericho County | 14 Mtwapa Centre - Kilifi County |
| 7 Kisii Centre - Kisii County | 15 Wajir Centre - Wajir County |
| 8 Kitui Centre - Kitui County | 16 Wambugu Centre - Nyeri County |

Potential Uptake Of The Technology

Biomass fuel accounts for about 70% of the primary energy --About a million of households have three to four cattle in zero grazing and hence substantial resource for bio-digesters.

This presents the sector with a wonderful opportunity for contractors to market and construct domestic biogas plants now and in future.

Biogas technology can not only provide gas, but it is also important for comprehensive utilization of biomass forestry, animal husbandry, fishery, agricultural economy, protecting the environment, realizing agricultural recycling, as well as improving the sanitary conditions, in rural areas

The Corporation, through the Energy Centers, provides technical assistance in respect to installation of biogas plants. If interested, feel free to visit our website www.rerec.co.ke, or any of our 16 energy centers across the country. Our staff will be delighted to serve you.



A live demonstration of Biogas at the REREC Stand in Meru A.S.K show

REREC Impacts Communities Through CSR



Residents going through the Garissa Medical Camp at Raya Dispensary- Balambala Constituency, Garissa County

The Rural Electrification and Renewable Energy Corporation utilizes its Community Social Responsibility (CSR) programs to maximize shared values among communities, employees, customers, and other stakeholders.

As part of its CSR program, the Corporation held a series of activities in Garissa and Kitui Counties. The activities undertaken included donation of textbooks and wall maps to Balambala Secondary School, Balambala Constituency in Garissa County. REREC also donated text books, stationery and sanitary towels to Kangweni Secondary School in Kitui County.

Moreover, the Corporation in partnership with Garissa County Government conducted a free medical camp at Raya Dispensary in Balambala Constituency.


The medical camp, which took place from 20th to 22nd July 2022 was officially opened by Garissa County CEC Health Hon. CPA Roble Said Nuno and involved Out Patient Services, Eye Screening and Cancer Screening.

Further, the Corporation, led by General Manager IEC, Dr. Rose Mkalama donated beehives to Super Bee Keeping Women's Group in Iftin ward, Garissa Township Constituency, solar lanterns to the Raya community and foodstuff to 640 households from the Eldere and Bulu communities in Lagdera Constituency.

“When the wind blows there are those that build walls and then there are those that build windmills.”

~ Chinese Proverb

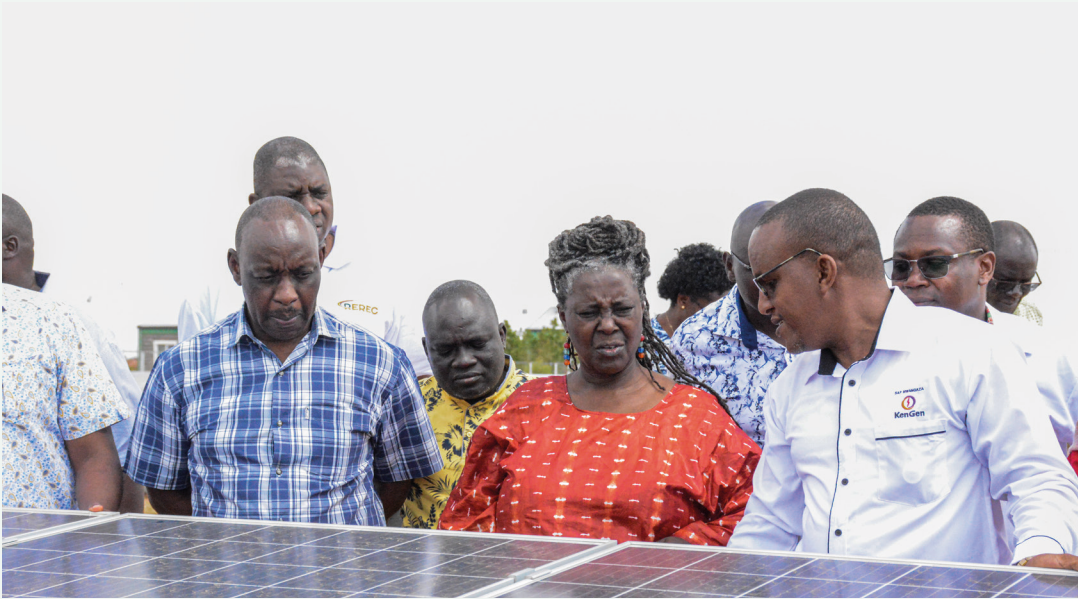


A welder wearing safety glasses and a brown jacket is kneeling on a construction site, welding a metal beam. Bright sparks are flying from the welding point. The background shows a blurred metal structure.

**Tumia
umeme
kujiendeleza
kimaisha**

Stima si ya kuwasha taa tu

Through the Lens



The REREC Board of Directors and senior managers recently visited Garissa Solar Power Plant in Garissa County. The 50 MW solar plant is the largest in East & Central Africa and is a national initiative aimed at promoting use of solar energy for grid electrification.



Energy CS Amb. Dr. Monica Juma donated a cooler to Bilbil Dairy Self-Help Group; to boost their milk selling business. With the cooler the milk will stay longer without going bad.



REREC's CEO, CPA Peter Mbugua joins the public in a dance during the commissioning of the Bura - Bilbil - Charidende Line in Bilbil dispensary, Bura Constituency, Tana River County.



REREC's officials led by Manager, Mt. Kenya Regional Coordination, Frederick Nyamai donated text books, stationery and sanitary towels to Kangweni Secondary School in Kitui County as part of REREC's CSR Programme.

Through the Lens



The Corporation took part in the Kenya Power Manufacturers', Technology and Innovation Expo 2022 that happened from 6th to 8th July 2022, at the Kenyatta International Convention Centre (KICC), in Nairobi, Kenya. REREC's personnel engaged stakeholders for purposes of advocacy, addressing any customer enquiries, complaints and to get feedback on the Corporation's services.

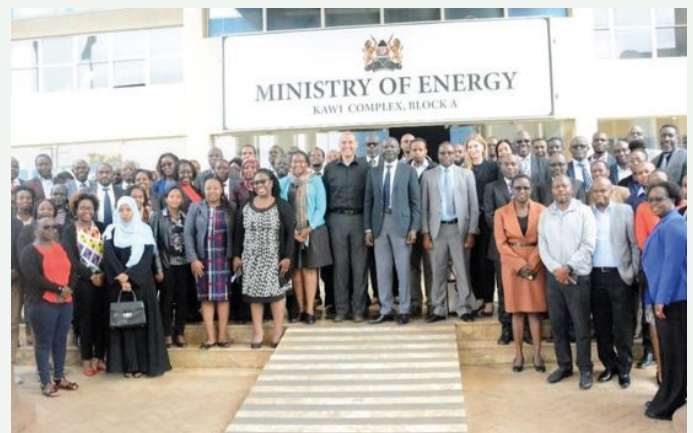
Eng. Ephantus Kamweru, Ag. GM renewable energy, Research, and Development joined live Newsroom Africa TV in South Africa, to share Kenya's success story on renewable energy. The timeliness in the discussions comes at a time when REREC is gearing towards adopting more innovative renewable solutions as part of its expanded mandate.



REREC recently signed an MOU with Masinga Constituency NG-CDF under the matching fund collaboration, to implement an electrification project in Kanyonga Village in Masinga constituency, Machakos County.



A delegation from Zambia Rural Electrification Authority recently paid a visit to REREC for benchmarking purposes. The delegation was led by Justin Chanda Mukosa (Manager Corporate Affairs) and joined by Charity Mudenda Chinkusu (Senior Environment Officer), Francis Chibwe (Senior Financial Analyst) and Vijue Moonga (Senior Community Development Officer). They were received by REREC's top Management.



REREC's officials attended the Kenya Off-Grid Solar Access Project (K-OSAP) presentation and discussion held on 30th August 2022 at KAWI Complex led by the Ministry of Energy PS Major General (Rtd), Gordon Kihalangwa.

Cross Word Puzzle

Across

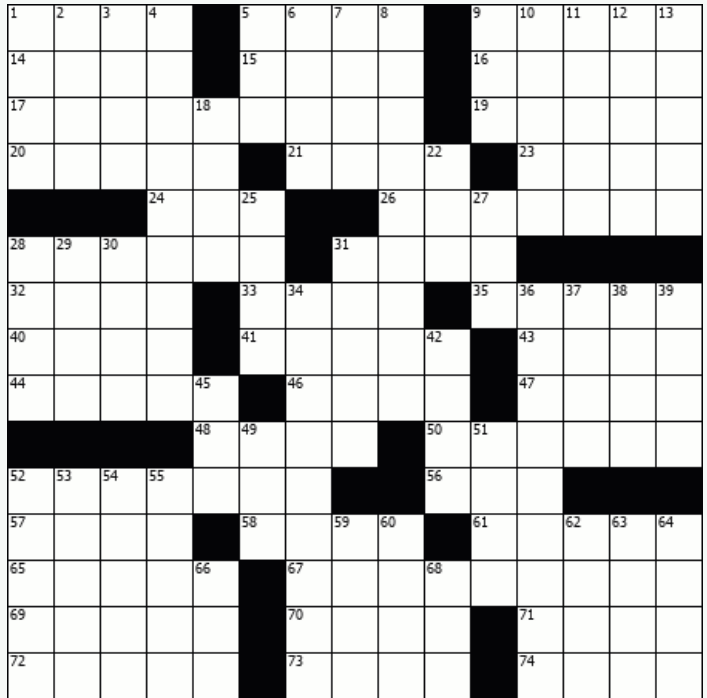
- 1. Univ. club
- 5. Mimicked
- 9. Awkward
- 14. Assistant
- 15. Burrowing rodent
- 16. Car accessory
- 17. Most rapid
- 19. Thai, e.g.
- 20. Irritable
- 21. Juvenile
- 23. Teen's woe
- 24. Browning's "always"
- 26. Housing agent
- 28. Thinly scattered
- 31. Pollution problem
- 32. City transportation
- 33. Sub store
- 35. Alleviates
- 40. Baking place

- 41. Foretelling signs
- 43. Inform
- 44. Golf club
- 46. Sugar source
- 47. "A ___ of Two Cities"
- 48. Memo letters
- 50. Uncorked
- 52. Ore refinery
- 56. Ink holder
- 57. Volcanic rock
- 58. Opera solo
- 61. Mud brick
- 65. Sports stadium
- 67. Praiseworthy
- 69. Leonardo da ___
- 70. Fortuneteller
- 71. Yule song
- 72. Artist's prop
- 73. Rational
- 74. Turner and Williams

Down

- 1. Quick
- 2. Mellow
- 3. Citrus drinks
- 4. Wobbling
- 5. Buddy (Fr.)
- 6. Poe or Browning
- 7. Other
- 8. Conclude
- 9. Retirement acct.
- 10. ___ spray
- 11. Decree
- 12. Baby grand, e.g.
- 13. Photocopier liquid
- 18. Stains

- 22. "The Matrix" hero
- 25. Remodel
- 27. Vital statistic
- 28. Stash away
- 29. Apply asphalt
- 30. Fired
- 31. Slumber
- 34. Humiliate
- 36. Parking lot employee
- 37. Actor ___ Connery
- 38. She, in Paris
- 39. Snow coaster
- 42. Street sign
- 45. Munch
- 49. Caspian ___
- 51. Juicy fruit
- 52. Unpaid toiler
- 53. Newswoman ___ Shriver
- 54. Levels
- 55. Cyclist ___ Armstrong
- 59. Suggestion
- 60. Prayer's end
- 62. Wind instrument
- 63. Ran, as dye
- 64. Elongated fish
- 66. Feel pain
- 68. Anger

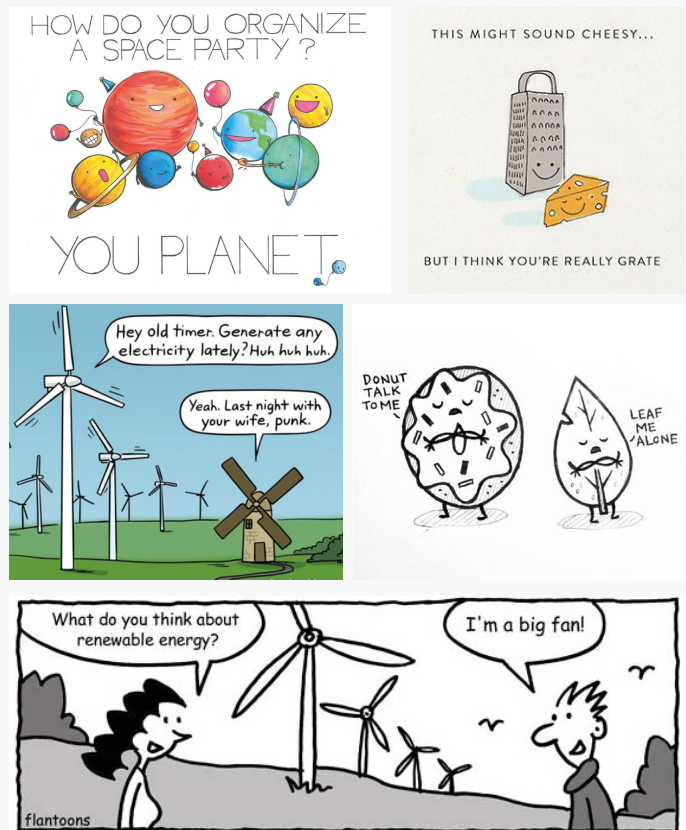


Sudoku

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 9 | | 6 | | 4 | | | | 2 |
| 2 | | | 9 | 6 | | | | 7 |
| 3 | | | | | 2 | | | |
| | | | | | | | 1 | 6 |
| | | 7 | | | | | | 9 |
| 6 | | 1 | | | | 4 | | 2 |
| | | | 8 | | | | 3 | 9 |
| | 9 | | | | | | | |
| | | 4 | | | 1 | | | 8 |

Fill in the Sudoku grid of 9 x 9 with Each row, column and square (9 spaces each) needs to be filled out with the numbers 1-9, without repeating any numbers within the row, column or square.

On a Light Note





The Highlight

Quartely Newsletter



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