

August 2022; Issue 8

DARKNESS AMIDST ELECTRICITY ACCESS: ASSESSING HOUSEHOLDS' EXPERIENCES WITH GRID POWER



A community member near electricity distribution infrastructure in Hoima district. Despite being connected to the grid, communities continue to grapple with electricity challenges

In this newsletter:

- Grid power: Assessing households' experiences and limitationss
- Pictorial of our activities
- Lobbying
- In the media
- Upcoming events

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Editorial

Dear reader, welcome to our August 2022 newsletter. This month, our newsletter focuses on a matter that touches us all: that of the fragility of Uganda's electricity sector. Electricity access, affordability and reliability is a pre-requisite for socioeconomic transformation.

This month however, many of us have watched in shock as the challenges of Isimba hydropower dam have played out. On August 8, 2022, the dam was shut down.

Reports indicated that the dam flooded following an engineer from Uganda Electricity Generation Co. Ltd (UEGCL) opening the wrong gates. This necessitated shutting down of the dam to protect equipment and lives. The country faced loadshedding thereafter, which affected businesses.

This wasn't the only bad news. Scrutiny into the dam revealed that construction of the dam was supervised by unlicensed engineers. The dam, which was commissioned in March 2019, also has ten high-risk defects that require to be urgently remedied. Experts from China are supposed to be flown into the country to save the dam.

The crisis around Isimba dam is not only unfortunate but displays the mismanagement of Uganda's electricity sector. This mismanagement affects all Ugandans, especially the most vulnerable communities.

The above is perhaps demonstrated by the fact that for over a decade now, the Ugandan government has prioritised investment into the electricity sector. Several programmes such as Rural Electrification ones, policies such as the 'Free' Electricity Connections Policy, and projects including the development of mini-grids have been implemented to increase electricity access.

Trillions of shillings have been invested in the electricity sector. However, electricity (grid) access remains low at **19%**. Power prices also remain high and electricity supply is unreliable. Poor communities face the brunt of these challenges as they cannot afford power. Policy, programme and governance changes must be made if the electricity sector is to deliver accessible, affordable and reliable power to drive socio-economic transformation.

In our **Word from CEO and Partners**, we demonstrate the above by using the case study of a community in the Kyakaboga oil refinery resettlement in Hoima district.

The Ministry of Energy connected the community to power in 2020 with the view of improving the socio-economic conditions of the community.

However, research that we conducted this month shows that the socio-economic benefits enjoyed by the community are few yet government spent huge amounts of money on the electricity project. The Kyakaboga oil refinery community is a representation of several out there.

While communities must be supported to access power, investment of taxpayers and development partners' money in projects with little to no return is unfeasible.

We therefore make recommendations to enhance electrification efforts while ensuring accessible, reliable and affordable power supply for all.

Away from the above, in this newsletter, we bring you our **pictorial** through which we share the activities that we and our partners implemented this month.

For instance, with our partners from the Democratic Republic of Congo (DRC), we organised a cross-border webinar to strengthen Ugandan and Congolese civil society groups to work together to promote clean energy while stopping the expansion of fossil fuels.

In addition, we supported our partners from Uganda and the DRC to engage oil host communities and government on the need to promote a clean energy transition.

Furthermore, we organised an exchange learning between communities in Hoima and Kikuube districts to promote forest conservation amidst oil activities in Uganda's Albertine Graben.

AFIEGO and our Inclusive Green Economy Network East Africa (IGEN-EA) partners also trained women beekeepers in Hoima district to improve their livelihoods and promote environmental conservation.

Further, with our IGEN-EA partners, we organised a radio talkshow to sensitise communities in over seven districts in the Bunyoro sub-region on how to engage in successful beekeeping to enhance livelihoods and environmental conservation. In addition, with our IGEN-EA partners, we shared research findings on the tourism potential of Bugoma forest via a radio talkshow that reached stakeholders in over seven districts in the Albertine Graben.

We did so much more as can be seen in our pictorial.

In our **lobbying** section, we share some of the lobby and advocacy products that we disseminated this month including a letter to the Ministry of Lands to urgently present the Land Acquisition Bill, 2018 before parliament for debate and enactment.

We also bring you a press statement that we issued through which we called on government to stop loadshedding after the temporary shutdown of Isimba hydropower dam.

We also wrote an open letter to the president calling on him to address electricity sector challenges to promote a clean energy transition.

Finally, in the **media** section, we bring you some of the newspaper articles written by our staff and partners that were published by the media this month.

We hope that you will enjoy the newsletter.

Editorial team: Diana Nabiruma Patrick Edema Balach Bakundane

Word from CEO & Partners

GRID POWER: ASSESSING HOUSEHOLDS' EXPERIENCES AND LIMITATIONS

Dear reader, allow us to share some brief history with you. In the early 2000s, Uganda experienced an electricity crisis. The country grappled with too little power for its population and economic needs. Citizens experienced loadshedding as power was rationed to meet competing demands.

To address the above challenge, government focused on constructing several hydropower dams. Power stations such as Bujagali, lsimba, Nyagak, Kabalega and others were constructed. Todate, Uganda has over **27** hydropower dams.

Those that are under construction, including Karuma, Achwa I as well as Nyamagasani I and II, are four. Those that are proposed for construction are eight.

Construction of dams was not the only initiative that government undertook to increase electricity access. Since Uganda started putting in place national development plans in 2010, emphasis has been placed on electricity generation and transmission.

Trillions of shillings, some contributed by development partners under various initiatives, have been spent on constructing hydropower dams as previously indicated, putting in place electricity transmission infrastructure and even connecting households to power under policies such as the 'Free' Electricity Connections Policy.

Despite the above, electricity access in Uganda remains low with grid access standing at only 19%. Even where access exists, citizens find it hard to use power. What causes this challenge?

RESEARCH

In August 2022, AFIEGO conducted research to understand how rural communities

use grid power. Our study focused on 46 households in the Kyakaboga-Hoima oil refinery resettlement. The scope of our study was limited but our findings corroborate those of earlier research on rural communities' electricity access, expenditure, use and limitations.

The Kyakaboga-Hoima community that we studied is composed of households whose land was acquired by government for the oil refinery project. The community was resettled in 2018 by government in Kyakaboga-Hoima. As part of government's commitment to provide electricity to the households, the Ministry of Energy and Mineral Development (MEMD) connected the community to grid power in 2020.

METHODOLOGY

Our study employed a cross-sectional research design and a mixed-methods research approach. Both quantitative and qualitative data collection methods were employed. Data was collected from 38 households through interviews and questionnaires.

While the study sought to collect data from all the 46 households in the resettlement, 38 households returned the questionnaires that were sent to them.

This was an 82.61% response rate. The data that we collected was analysed using the following procedure: Qualitative data was transcribed verbatim, word processed, printed, and read. The quantitative and qualitative data was analysed using quantitaive and qualitative tools respectively.

FINDINGS AND ANALYSIS

The following were the findings of the study. **Demographic characteristics** The majority of the respondents were adults aged 35-59. This age group constituted 39.47% of the respondents. The group was followed by youths aged 18-30 years at 31.57%. The elderly respondents aged 60 years and above stood at 28.89%. In terms of gender, 55.26% of the respondents were male while 44.74% were female.

Expenditure on electricity

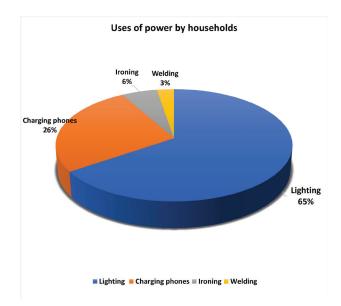
The study assessed the amount of money households spend on electricity on a monthly basis. The study found that the majoirty of the respondents, 78.36%, spend UGX 10,000 per month on power. 15.34% spend UGX. 12,000 while only 3.66% and 2.64% spend UGX 20,000 and UGX 40,000 per month respectively. The households that spend more on electricity are those that are headed by males.

The above findings are in line with those from previous surveys say the **Uganda Rural-Urban Electrification Survey** of 2012 by the Uganda Bureau of Statistics (UBOS). According to UBOS, "... on average, each household spends UGX 13,600 at the national level on electricity. ... urban households spent more on electricity compared to their rural households who spent only UGX 10,000 ".

Uses of power

This study assessed how the Kyakaboga-Hoima households use grid power. Of the respondents who participated in the study, the majority, 65%, said that they use power for lighting. 26% said that they use it for phone charging, 6% said that they use it for ironing and 3% said that they use power for welding.

This means that the majority of the households are using power for consumptive and not productive purposes. The **productive use of power** is defined as the use of energy services to produce "agricultural, commercial and industrial" goods and services. Using power to run millet or maize milling machines is an example of the productive use of power. In terms of productive use of energy, the few households that were using power for productive purposes in Kyakaboga, namely welding, were male youths. Women reported using power for domestic purposes such as lighting and ironing. Below is a piechart showing what households use power for.



Costs

The study assessed the challenges experienced by households connected to grid power. The high cost of power was one of the most cited challenges. The respodents reported that a unit of electricity costs them UGX 900. This means that the majority purchase 11.1kwh (units) of electricity per month. This is below the **national median household** average of 39.6kwh per month.

One of the research respondents said the following in relation to power prices: "The charges are expensive and my electricity always has challenges."

Another said, "This power is not beneficial because the service fee [price] is too expensive to us. [The] power is also on and off which is not good [for a] business man or woman".

The high cost of power is one of the factors prohibiting the productive use of power in Kyakaboga.

Other challenges

The challenges faced by grid power users in Kyakaboga that this study found included: unreliable power supply. All the respodents said that they suffer power outages every month. 56.28% said that they suffer outages at least two to four (2-4) days in a month. 28.72% and 20% reported that outages occur for seven and five days in a month.

One research respondent said: "Whenever the weather is bad or when it has just rained, the electricity just goes off."

Other challenges included the following: techincal challenges, failure to get tokens after paying for Yaka! electricity and others.

Alternatives

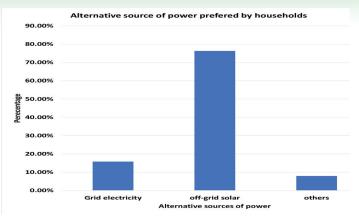
This study also assessed the alternative sources that are preferred by households. The study found that the majority of the households, 76.32%, preferred off-grid solar. They said that off-grid solar is cheaper and more reliable than grid electricity.

The study also found that 15.79% of the respondents preferred to continue using grid electricity while only 7.98% of the respondents preferred other alternatives.

"Grid electricity gives bright light for my children while reading their books," one respondent said.

Although the majority of respondents who participated in the study preferred offgrid solar, they were aware of the uses of grid power in the education and health sectors which included powering x-rays for scanning, powering machines for oxygen, and lighting.

Below is a chart showing the preferred clean energy alternatives.



CONCLUSION

The experiences and challenges of the Kyakaboga-Hoima community as regards the electricity sector are not unique. Failure by citizens to use power to meet all their needs even where access exists is a welldocuemented challenge.

Indeed, government says that Uganda produces excess power that citizens have failed to consume. Yet the country's installed generation capacity stands at only **1346.7mw**.

To boost electricity access and utilisation, it is paramount that government addresses major electricity sector challenges that undermine citizens' demand for power. Key among these challenges are policy gaps that have failed to ensure that Uganda has a coherent and foolproof electrification strategy that ensures that citizens access and use power options that are most suitable for them. The development of many dams for instance won't solve power access and utilisation challenges.

Others include corruption which sees government signing expensive electricity sector agreements which makes power unaffordable, poor planning and failure to ensure public awareness about the need to use power for productive purposes among others.

By CEO and Partners

AFIEGO EMPOWERS OIL HOST COMMUNITIES TO PROMOTE ENVIRONMENTAL CONSERVATION



On August 12, 2022, AFIEGO organised an exchange learning between communities in Hoima and Kikuube district.

The communities discussed the livelihood options they can pursue to promote forest conservation amidst oil exploitation in the Albertine Graben.

AFIEGO SUPPORTS DRC CSOS TO ENGAGE THEIR GOVERNMENT FOR CLEAN ENERGY



In August 2022, AFIEGO supported its partners from the DRC to engage their government on the need to promote clean energy.

The partners used Uganda's oil exploitation experience to make a case for clean energy development instead of oil exploitation in the DRC.

AFIEGO and our Congolese partners also organised an exchange learning webinar to support the promotion of clean energy over fossil fuels.

AFIEGO AND PARTNERS DISCUSS TOURISM POTENTIAL OF BUGOMA FOREST



On August 16, 2022, AFIEGO and our partners organised a radio talkshow at Spice FM in Hoima.

During the talkshow, the tourism potential of Bugoma forest was discussed.

The talkshow was aimed at contributing to efforts to protect Bugoma forest from oil and sugarcane challenges.

AFIEGO AND PARTNERS TRAIN WOMEN BEEKEEPERS IN HOIMA DISTRICT



On August 12, 2022 AFIEGO joined our IGEN-EA partners to train women beekeepers in Hoima district.

The training equipped the women beekeepers with knowledge and skills to improve their productivity.

This will improve their livelihoods as well as conserve the environment.

AFIEGO also held a radio talkshow to sensitise communities to promote beekeeping, a green economic activity.

AFIEGO AND PARTNERS HOLD PLANNING AND REFLECTION MEETING



On August 19, 2022, AFIEGO and our IGEN-EA partners organised a planning and reflection meeting.

This meeting attracted a total of 26 participants including new members who were inducted into the network.

During the meeting, the network members were able to reflect on their milestones, achievements and plan for 2023. In August 2022, AFIEGO and our partners wrote a letter to the President on the need to address the obstacles limiting Uganda's clean energy transition efforts.

In addition, we issued a press statement calling on government to stop loadshedding after the Isimba hydropower dam was temporarily shut down.

Furthermore, AFIEGO wrote a letter to Ministry of Lands to urgently present the Land Acquisition Bill, 2018 to parliament for debate and enactment.

AFRICA INSTITUTE FOR ENERGY GOVERNANCE

H.E. Yoweri Kaguta Museveni, The President, Republic of Uganda, Kampala (U).

Your Excellency,

OPEN LETTER TO THE UGANDAN PRESIDENT TO ADDRESS OBSTACLES TO CLEAN ENERGY TRANSITION

Greetings from the undersigned Ugandan clean energy, environmental and human rights civil society groups. We take this opportunity to thank you for your recent advice to the country that the best way to solve high fuel prices is not to invest in more petroleum products/fossil fuels but rather to invest in efforts to enable our country to transit to electric cars and other clean energy options. We appreciate that you and your government are now supporting efforts to move away from fossil fuels which remain one of the biggest dangers to the country.

The main objective of this letter is to highlight some of the obstacles to the clean energy transition and make recommendations for action to achieve the transition in line with the national address you made on July 27, 2022.

Obstacles to clean energy transition

Obstactics to clean energy transition a). Oil investments: Your Excellency, over USD15 billion is planned to be invested in the East African Crude Oil Pipeline (EACOP), Tilenga, Kingfisher, and other oil projects. Some of this money will be borrowed from banks by the Ugandan government and the oil companies operating in the country. The money borrowed by the Ugandan government stands to increase Uganda's public debt, undermining the country's capacity to fund clean energy options. It should be noted that by December 2021, Uganda's <u>national debt</u> stood at over USD19 billion (over UGX73.7 trillion). If government gees a head with the above oil projects, in the next five years, Uganda's total debt will increase. Government estimates that in this financial year, the country's debt to GDP ratio will hit <u>52.998</u> as funds are borrowed for investment in the oil, gas and infrastructure sectors among others. Uganda's huge debt will not allow any real socio-economic transformation for a clean energy transition.

b). Ecosystem destruction: Further, Your Excellency, when commercial oil deposits discovered in the Albertine Graben in 2006, protected resources such as lakes, rivers, weth 1

AFRICA INSTITUTE FOR ENERGY GOVERNANCE 🤻 AFIEGO

The Minister of Lands, Housing and Urban Development, P.O. Box 7096, Kampala (U). Dear Hon Minister

RE: LETTER TO THE MINISTER OF LANDS TO URGENTLY PRESENT THE LAND ACQUISITION BILL, 2018 TO PARLIAMENT

OFFICE OF THE MINERIA 7, 2022

19 AUG 2022

RECEIVED P. O. BOX 7096 KAMPAL

- Greetings from Africa Institute for Energy Governance (AFIEGO) and our other undersigned environmental and human rights civil society partners as well representatives of oil-affected vironmen.
- AFIEGO and our undersigned partners have worked with communities whose land is compulsorily acquired for oil projects for over a decade. We have documented the challenges that these communities suffer due to grievous gaps in Uganda's land acquisition laws.
- Because of this, we take this opportunity to appreciate the Ministry of Lands for compiling the draft Land Acquisition Bill, 2018. The bill seeks to repeal the 1965 Land Acquisition Act which has unconstitutional provisions and several gaps that have undermined the protection of communities' land rights during compulsory land acquisition processes.
- We believe that the draft Land Acquisition Bill, 2018 has the potential to promote citizens' enjoyment of land and other property rights as provided for under Article 26 of the 1995 Ugandan
- However, we note with concern that since 2018, the Ministry of Lands has not tabled the abo bill to parliament for debate and enactment into a law.
- Is should be noted that on March 30, 2020, the undersigned civil society groups reviewed the draft Land Acquisition Bill, 2018. The review was based on discussions with over 58,000 oil-alfected people from 34 oil host communities in 13 districts. Following the discussions, we compiled a memorandum of proposals on gaps and weaknesses in the bill. We made recommendations to improve the draft bill.
 - Unfortunately, to date, no steps have been taken by the Ministry of Lands and government at large to complete the bill and table it before parliament for debate and enactment into law.

AFRICA INSTITUTE FOR ENERGY GOVERNANCE

August 17, 2022

11th/August/2022

FOR IMMEDIATE RELEASE KAMPALA

GOVERNMENT SHOULD STOP THE ONGOING LOADSHEDDING

Africa Institute for Energy Governance (AFIEGO) and our civil society partners that work on promoting accessible, reliable and affordable clean energy services in Uganda are calling on the Ugandan government to stop the ongoing loadshedding.

Government must work with the Independent Power Producers (IPPs) that Ugandans have paid Overlinetit most work with the independent Fover Fronders (rFs) that Ogmanns have plat 5b, 14 trillon over the last 16 years for deemed (unconsumed) power to ensure that the ongoing loadshedding ends. These companies must fill the electricity supply gap left by the shutdown of Isimba dam.

The loadshedding, which has affected the Kampala metropolitan area and parts of eastern Uganda, started following the temporary shutdown of Isimba hydropower dam.

Reports indicate that the dam was shut down of lsimba hydropower dam. Reports indicate that the dam was shut down following a "human error" in which an engineer from Uganda Electricity Generation Co. Ltd (UEGCL) opened the radial outflow instead of inflow gates at the dam, leading to flooding of key equipment. Shs. 5 billion is needed to rectify the error.

Following the Isimba dam shutdown, UMEME, which distributes over 90% of Uganda's electricity, <u>warred</u> Ugandans to brace for power blackouts. In an August 16, 2022 <u>press release</u>, the Ministry of Energy indicated that the loadshedding would go on for three weeks. Traders are counting losses because of the loadshedding.

Mr. Dickens Kamugisha, the CEO of AFIEGO, says, "It is absurd that the shutdown of Isimba dam has occasioned loadshedding. The president has been boasting that Uganda has excess power. Why hasn't this power been deployed to avoid loadshedding?"

He adds, "The truth is that the electricity sector is greatly mismanaged. The Electricity Regulatory Authority has been issuing electricity generation licenses to companies without ensuring that transmission infrastructure is in place, leading to production of the so-called excess or deemed electricity."

It is notable that for the past 16 years, Ugandans have paid over 13 power companies for deemed energy. However, the Ministry of Energy plans on adding only 70MW to the grid from two plants, the Namanve Thermal and Kakira Sugar power plants. These are expected to partly address the gap left by Isimba. Another 60MW is going to be imported from Kenya.



TOPICS:

1- IMPACT OF KENYA'S POST ELECTION EVENTS ON EAC.

2- ISIMBA DAM SHUTDOWN: IS UGANDA RUNNING INTO AN ENERGY CRISIS?. **Guests:**



BATEEBE by of Energy and M

In the media

This month, AFIEGO staff, research associates and youth champions wrote over 15 newspaper articles that were published in the leading newspapers. The media also published articles from the media interviews we held this month. Some of the published articles are captured below.

LETTER OF THE DAY

The purpose of the Parish De-velopment Model (PDM) isto deepen the decentralisation process, improve household in-comes enable inclusive, sustain-able balanced and equitableso-cico-economic transformation; and increase accountability at lo-callevels. This implies endication of pow-ety and youlneeshifty as wellas

erty and vulnerability, as well as total transformation of the sub-sistence households into the

total transformation of the sub-sisteme households into the money economy. It is everyholdy so oncern to see that the rural communities generate sustainable incomes assoon as possible Of the vari-ous livestock enterprises, poul-tryfisheries, Dairy farming, pig-gray among of theses, beekeeping enterprise offers one of the best options for the rural commu-nities and commercial farmers because of its minimal require-ments for land, machinery and equipment, labour and capital investment.

investment. The revenue potential for bee-keeping is estimated at \$10,400 per year with the project cost of \$7,345 and a profit margin of 73 percent, hence proving to be a vi-bla amient

57,345 and a profit marginol 073 percent, hence proving to be avi-able project. In Uganda, honey production potentialis enormous, estimated at 500,000 metric tomes per year. This potentialis not yet fully ex-ploited. The profit proving the tomes will be need to recepto the thom-ey production potential are lack-ing among the technoceats and farmers.

ing among the technocrats and farmers. Honey bees are social insects that live in colours of 10,000 to 60,000. A ²⁰⁰ ray consists of a queen (ferth analc), a few hundred thorus smales) and thorus sands of workers (sterife fernales). As a source of food, honey is delicious and rich in energy and vita mins. It can be consumed to the foods as supplement. Bee brood (larvae and pupae) have high nutritional value and are fed to malnourished children. Royal (elly and pollen are consumed for their high pro-tein value and it (greatly improves food security

LETTER OF THE DAY

Biodiversity is all the differ-ent kinds of life you will find in

one area—the variety of anin plants, insects, fungi, and eve microorganisms like bacteria

microorganisms like bacteria that make up our natural world Each of these species and or-ganisms work together in eco-systems, like an intricate web, to maintain balance and support Use.

maintain balance assesses life. Biodiversity is essential for the processes that support all life on earth, including humans. With-out a wide range of animals, plants and microorganisms, we cannot have the healthy ecosys-tems that we rely on to provide heathe and

changer for Parish Model

Beekeeping could be game

Honey is used as a carrier in a-urvetic and unnain medianes. It acts as a locative and prevents cold.cough and fever. Bee prod-ucts such as venom, honey and propolia are used for treatment of many conditions following the antihotic nature of the products. The conditions/disease treated using bee products include storm ach upset, diarrhoea, vomiting, wounds k ums, meades tooth-aches and truggal infectors.

aches and fungal infections. Chemically,honey is a viscous water solution of sugar. Its approx-imate composition in percentage is as follows: Water 13-20, Pructose 40-50, Glucose 2-3, Minerals Trac-es Vitamins (minute quantities) (B1,B2,C).

estimation intercontent continues (18,18,2,C). Bee venomis anti-inflamma-tory and is used by humans tore-lieve pain. It is effective in treating the symptoms of theumatoid ar-thritis, neuraligia, high blood pres-sure, high choicesterol and even multiple sclerors hence high po-tential for income generation. Homeybees provide pollination services, thereby playing a vital

nie in food production and over all agricultural productivity. More than 75 percent of all the cryps in a bis sharm a Mirca ben-fit from polination. Bees are considered the most of-ficient polinations because they have hary bodies which easi-ly pict up poling rains as they now the poling rains as they now the poling rains as they day one bee may visit several hund cleric flowers. Beekeeping is a non destructive activity that could be employed neckeeping is a non destructive activity that could be employed in the conservation of plant bio-dive.⁴⁶ G in natural ecosystems Households living adjacent these areas can support the conserva-tion efforts of these resources by etablicity outputs and the conserva-

tion efforts of these resources by establishing apiaries within or at the boundary of these protect-ed areas. More so beeswax can be used in making candles, prep-aration of varnishes and paints, water proofing and waxing of threads. Honey is utilised for makthreads. Honey is utilised for n ing alcoholic drinks, beauty lo

tions and poison baits for certain

To wrap it up,PDM is the last mile strategy for service deliv-ery by government for improv-ing incomes and welfare of all Ugandans at the household level which should be maximally ut-lised through encouraging farm-

which should be maximally utilized through encouraging farming its or practice bee keeping. The African Development Bank and the government of U2an data hoursguit be revention of the starm income Bank in the Portuge Lunder Pormotion sub-component embraked on a series of fine met embraked on a series of the national training document through the National Bee Keeping will immensely contribute to Advisement of the PM. Bee keeping will immensely contribute to advisement of the PM. Bee keeping will immensely contribute to advisement of the PM. Bee keeping will immensely contribute to advisement of the PM. Bee keeping will immensely contribute to advisement of the PM.

Kembabazi Babra babrakembabazi92@gmail.com



vencices traverge establishment of public charging stations at ma-jor hubs. The drive to invest in charging stations is enhanced by consum-erpreferences rapidly inclining to-wards passenger and commercial electric vehicles (GWs) on the conti-nent, due to rising environmental electric vehicles (GWs) on the conti-nent, due to rising environmental sware of the future, but are here to save lives and chimate as we seek uneduce carbon emissions which will generally serve earth justice. In Uganda the main sources of air pollution include emissions from vehicles, industrial activities, burning of waste and among oth-ers. To solve the climate crists, we need to make the vehicles on our reads as clean as possible. We have

LETTER OF THE DAY

powered cars, no matter where your electricity comes from. The electricity that charges and fu-els battery electric and plug-in hy-brid vehicles comes from power grids. Due to surplus power gen-erated, there is no doubt Uganda bee the operative some promote need to make the venicles on our roads as clean as possible. We have to change the way we use energy to avoid the worst impacts of cli-mate change. The installation of electric car met entrage. The installation of electric car mentation in Africa si investors provide an university of the assist provide an university of the assist provide an university of the assist provide and the assist provide and the assist provide and the assist provide assist provide and the assist provide assist has the capacity to supply ample electric cars charging stations The total installed generation capacity stands at 1346.7mw and capacity stands at 13.67 mv and during peak hours, only 794.0MW is consumed while over 500mw is deemed and Karuma hydro-power damis yet to be commis-sioned in June 2023. As a country we need to utilise deemed pow-er to cut down losses registered in the power stero. Put simply, elec-tric vehicles give us cleaner streets making our towns and cities a bet-ter place to be for pedestrians and cyclists.

cyclists. In over a year, just one electric car on the roads can save an aver-age 1.5 million grams of carbon dioxide. What's more, EVs can also help eliminate noise pollution, esacip eliminate noise pollution, es-pecially in cities where speeds are generally low. generally low. As they are far quieter than con-ventional vehicles, driving electric creates a more peaceful environ-

The Policy Committee on Envi-ronment should set a realistic na-tional goal that all new vehicles sold by 2040 should be zero avi-ion the sion through setting supporting policies. Establishment of public charg-ing stations, importation and pro-

duction of electri duction of electric vehicles will certainly respond to The National Climate Change Act, 2021. One of the key objectives of the Act is to enable Uganda pursue its voluntary mitigation targets of re-ducing national greenhouse gas eminimer. Going forward the government should plan to implement a car-bon dioxide tax as the country

bon dioxide tax as the country begins to focus on establishing a greener transport system by pro-moting electric which e produc-tion and adoption. A tax waver on all imported electric which electric will attract a huge market hence an effectre measure to boost adoption rates initially. Uganda begine he peard of AF rea should aim at maintaining and protecting the status your The country has the capacity to pro-tet the beautynatural wonders, climate and people while reduc-ing emissions.

ing emissions. Finally,EV friendly tax schen can also be an effective alterna tive to direct monetary grants when it comes to boosting EV babra Kembabazi babrakembabazi92@gmail.com

'Gas cylinders are not actually clean'

EDITOR: Thank you energy minister Ruth Nankabirwa for the efforts to transform the country from fossil fuels to clean energy.

This clearly shows that Uganda has the potential to lead the struggle to ensure that all people get access to clean and affordable energy for the common good. On July 5, 2022, you launched a sh900b free cooking

Gerald Barekye gas project to distribute free gas cylinders to the vulnerable communities. The intervention targeted LPG cooking energy to grow from current 0.8% to 20% of Ugandans households by the year 2030. The move was to distribute at least one million liquidified petroleum gas cylinders and burners to Ugandans in an effort to use clean energy. This was a good

initiative but not a good option for the target group. About 100 households received the yellow gas cylinders at the launch the project in Wakiso district and each household that received had confirmed that they have capacity to refill the cylinder at sh100,000. However, the people that received these gas cylinders have no capacity to refill them and this will force them to change cylinders colour from yellow such that they can be sold off.

Gas cylinders are not actually clean energy best alternatives because they have compressed gases that are toxic, flammable, corrosive and inert which is very dangerous to human life.

The best solution for Ugandans to transit to clean energy is the use of solar power which is sustainable and cheap. Solar energy doesn't need monthly subscriptions since its powered by nature (the sun) that is everywhere and free of charge. The other advantage is that Uganda is one of the countries that have enough sun throughout the year with mean solar radiation of 5.2 per square metre per day on a horizontal surface. With such a blessing Uganda shouldn't be struggling with monthly bills for electricity, gas cylinders that a toxic and electricity that is very expensive for all Ugandans. Since there is already free source of energy that is cheap and sustainable the emphasis and investment should be directed at solar energy.

The writer is research associate



complex chemicals also originate from plants. Spending time in nature is in-creasingly believed to lead to im-provement in people's physical and merath health. Simply hav-ing green spaces and trees in cit-ies has proved to decrease hospi-tal admissions, reduce stress and

people arms the 200e works in the tourism industry, and close to 1 - ballion tousies taxel inter-nationally every year. The magni-tude of this sector highlights the significant impact it can have on our environment's for the bene-fit of the industry the visitors and communities in popular desti-nations.

communities in popular desti-nations. To elaborate more trees hush-es and wetlands and wild grass-lands naturally slow down wa-ter and help soil to absorb water. When they are removed it can in-crease flooding. Trees and other plants clean the air we hreathe and help us tackle the global challenge of cli-

Annothave the healthy coxy-tems that we rely on to provide with the air we breakhe and the food we at. Pollinators such as birds, bees and other insects are estimated to be responsible for a thirds the world's crop production. Biodiversity is at the heard of what drives the tourism industry ty to tarts devises and the and the set of the drives the tourism industry and sorms. Additionally, many of ur medicines, alongside other complex chemicals also originate to parks and even turban areas depend on their natural beau-ty to attract visions and enchant. According to the World Eco-monit forum, and "00 even its people across the 200 even is to provide across the 200 even is to and the tourism industry, and cleas ests act as natural defences pro-tecting coastlines from waves and storms. Additionally, many of our medicines, alongside other complex chemicals also originate the foundation of food webs all over the globe, could disappear

ing green spaces and trees in di-ise has proved to decrease hospi-tal admissions reduce stress and lower blod pressure. Plants absorb water from the soil and fix carbon from the at-mosphere. They also reduce the city's heat load. Even though na-tive plants would probably sup-port more species of insects and other wildlife, supporting eco-system. We are now losing biodiversi-ty us to 10,000 times faster than it was disappearing 100 years ago, we must flight the biodiversity crisis and climate change at the same time.

same time. One million species could soon face extinction. Climate change is accelerating at a breakneck pace,

the Dumandri in Octoward and over the globe-could disappear by the end of the century. Further, the May 2019 intergov-emmem "cence-Policy Plat-form on b-od/werriy and Rossys-tem Services (PBRS) global as-sessment vame of nature's dam gerous decline with more than 1 million species Itmatened with extinction. This is why we must fight the, adversity crisis and climate change at the same time. We also must be well aware that the world is losing blociver-sity at an alarming and sadden-ing rate. It is estimated that up to 100.000 species go extinct.each 100.000 species go extinct e year largely due to human activvailable evidence show

Available evidence shows that while human beings repre-sent just 0.01 percent of all living creatures, they have caused the loss of 83 percent of wild mam-mals and half of plants By saving Babra Kembabazi

threatened mammal species and a quarter of threatened birds. According to a study published in Science last year. If outling is done to curb our carbon emis-sions, nearly spectrent of the planet's insects, which make up the foundation of food unbar all when the spectra of the spectra of the spectra control of the spectra of the planet's insects, which make up the foundation of food unbar all when the spectra of the spectra of the spectra control of the spectra of the spectra of the spectra control of the spectra of the spectra of the spectra control of the spectra of the spectra of the spectra control of the spectra of the spectra of the spectra of the spectra control of the spectra of the sp earth, is a major factor in nature's

> the importance of protecting an imals and their habitats, and another to do it. So forest health and conservation are key weapons in the worldwide fight against cli-mate change. It is important we curb global carbon pollution to a level that our forests and other ecosystems can process naturally.

earth is a major factor in nature's resilience. One of the best strategies for combading global warming is to preserve those habitats that nat-urally lock up most carbon Trop-ical forests, where ginat, ancient trees constantly absorb carbon dioxide from the atmosphere and then fix it into the soil, store around a op percent of all the car-bon on land. This is why protect-ing natural forests like Bugoma and Mabira is so essential. But it's one thing to identify the importance of protecting and



Upcoming events

September 1, 2022; Hoima and Kikuube: Engage Ministry of Lands to involve the Save Bugoma Forest Campaign in the Bugoma forest boundary opening exercise

September 9, 2022; Kampala: Public debate on the need to address obstacles to Uganda's clean energy transition efforts

September 12, 2022; Hoima and Kikuube: Community empowerment training on Bugoma forest's tourism potential

September 18, 2022; Kampala: Engage Ministry of Energy to desist from awarding a construction license to the EACOP Company

September 19-21, 2022; Hoima and Kasese: Support women and youth to engage parliament for a law to protect solar energy consumers from sub-standard products

September 19-30, 2022; Nationwide: Support data collection for research aimed at promoting off-grid electrification

About Africa Institute for Energy Governance (AFIEGO)

AFIEGO is a non-profit company limited by guarantee that was incorporated under Uganda's Companies Act. AFIEGO undertakes public policy research and advocacy to influence energy policies to benefit the poor and vulnerable. Based in Kampala-Uganda, the non-profit company was born out of the need to contribute to efforts to turn Africa's clean energy potential into reality and to ensure that the common man and woman benefits from this energy boom. Through lobbying, research and community education, AFIEGO works with communities and leaders to ensure that clean energy resources are utilised in a way that promotes equitable development, environmental conservation and respect for human rights.

Our Vision A society that equitably uses clean energy resources for socio-economic development

Our Mission To promote energy policies that benefit poor and vulnerable communities