



The People's Electricity Link

RURAL ELECTRIFICATION AGENCY

MINISTRY OF ENERGY & MINERAL DEVELOPMENT

MANIFESTO SUPPLEMENT 2017

ELECTRICITY ACCESS IN RURAL UGANDA



In line with the 2016/2021 NRM manifesto's central theme of *"taking Uganda to modernity through job creation and inclusive development"*; the Rural Electrification Agency (REA) has continued to create opportunities for prosperity and promote improved quality of life through increasing access to electricity for Ugandans. The Manifesto is specifically committed to promoting electricity infrastructure so as to support industrialisation, universal access to affordable and reliable modern energy.

As the graph below illustrates REA will be able to scale up energy access to cover the 775 schemes targeted in the manifesto that traverses 99 districts.

<p>Building Local Technical Capacity</p> <ul style="list-style-type: none"> 60% of Contractors used are local 100% local sub-Contracting (over 100 local subcontractors) 60% of participating Consulting firms are local Partnerships with educational institutions (University and Technical) for student trainings and internships 	<p>Area, Kibaale National Park, Lake Mburo and Mount Elgon</p>	<ul style="list-style-type: none"> Replacing dirty sources of energy with electricity through connecting 1,150,000 households Enhancing health care by connecting 232 health facilities Enhancing quality of education through connecting 1,239 schools and education centres Increased access to cleaner and safer water by connecting 53 water pumps Improved security by facilitating use of security lights Extending electricity to ICT facilities
<p>Building Local Industries</p> <p>The following factories have come up due to the demand for supply of construction materials:</p> <ul style="list-style-type: none"> 9 Wood Pole Treatment Factories 3 Transformer Manufacturing Factories 4 Concrete Pole Plants 1 Cable and Conductor Manufacturing Factory <p>The demand is projected to grow by 50%</p>	<p>Equitable Distribution of Electricity</p> <ul style="list-style-type: none"> 100% electrification of district headquarters 100% electrification of all sub county headquarters 50% electrification of all Parishes 50 Islands in Lake Victoria to be electrified Sinking of a 7km submarine cable to connect Kalangala Island to the national grid 793 rural electrification schemes in over 99 districts 	
<p>Supporting Public Private Participation</p> <ul style="list-style-type: none"> 230 mini-grid systems to be implemented through PPPs or Public Financing Rural Service Territories are operated and maintained through 2 private companies (Kilembe Investment Ltd and WENRECO) and cooperatives (BECS, PACMECS, KRECS) Rural electrification concessions are operated and maintained through 5 private companies (Kalangala Infrastructure Services, Kisizi Electricity Ltd, Bwindi Community Micro-Hydro Power Ltd, Pamoja Energy Ltd, Swam Community Micro-Hydro Power Ltd, HYDROMAX, Absolute Energy Ltd) and one cooperative (Kanyegaramire Cooperative Society) The private companies and cooperatives are supported in a bid to achieve commercial viability A master planning process is on-going which shall present opportunities for public and private players to offer utility services and to invest in Grid and Off-grid projects. Promoting Tourism Electrifying Tourism support facilities: Kidepo Valley, Murchison Falls, Queen Elizabeth National Park, Bwindi/Mgahinga 	<p>REA PLANNED WORKS 2016-2021</p> <ul style="list-style-type: none"> Extension of the Electricity Grid Network through construction of MV (33kv and 11kv) 8,637.59 km and LV 6,684.49 km Implementation of 230 Mini-grid Systems. Facilitate 356,500 connections through Standalone Home Systems EvacuationMW from Small Power Hydro Generation Plants 	<ul style="list-style-type: none"> Boosting Power Quality Supply 11 System improvement projects Through refurbishing and system upgrades: upgrade of 500km of conductor, replacement of 11,000 poles on power lines 10 years or older and upgrade of 1000 transformers. Implementation of mini-SCADA systems in all REA Service Territories
	<p>Contribution to resilient Environment and societies</p> <ul style="list-style-type: none"> Contributed to climate change mitigation (more than 1M tCO₂e reduced so far and it is expected that by the end of 2020, more than 4M tCO₂e will have been reduced) Contributed to National effort for climate change adaptation through supporting green job creation, health and education services etc. Improved public health and environmental quality through reduction of indoor air pollution Over 50,000 seedlings planted as way of reducing its carbon footprint Electricity access contributes to national effort to combat deforestation through displacement of use of biomass especially in SMEs 	<p>Facilitation of Businesses, Trade and Industry</p> <ul style="list-style-type: none"> 4,770 trading centres to be electrified Promoting the growth of SMEs (Maize Mills, Milk Cooling machines, Tea & Coffee factories, Welding, Stone Quarries etc.) through connecting 9,540 SME's Promoting Small Businesses (Shops, Saloons etc.) through connecting 23,080 small businesses. Supporting value addition through fish preservation and processing by connecting 21 landing sites Supporting growth of cooperatives through facilitating access to electricity for 52 cooperatives and SACCOS. Connecting over 20 Industries e.g. Katikekile Cement Factory, Moroto Cement Factory, Bentonite Factory, Sanga Meat Factory, Maziba Wine Factory, Febu Stone quarry
<p>Improvement of Quality of Life</p> <ul style="list-style-type: none"> Connecting 1,150,000 households Realising 30% national access rate to electricity as per NDP II 		



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Below is a summary table showing the current status of the Rural Electrification Programme in line with fulfilling the 2016-2021 manifesto.

Item	Project Name & Funding Institution
1	<p>Government of Uganda Consolidated Fund - Cost Sharing Community Schemes (Under Implementation)</p> <ul style="list-style-type: none"> Drummal Tabiro Primary School in Kammengo in Mpigi; Katende Mabuye Kagezi in Mpigi; Katonga Technical in Nindye Parish in Mpigi; Mark Mat Agro Processors Ltd in Mukono; Karambi Trading center in Kabarole; Nombe Bugarama Katinda- Additions in Bushenyi; Bakabaale Elders Scheme in Naigobya in Luuka; Laroo Forest Wards in Gulu; Iraga St. Mauritz in Lira; Andruvu Community - Mvra Sudan - Oluko in Arua; Alengo, Ogayi & Ociba Community in Arua; Kikyusa Model Village in Wakiso; Miles Integrated Farm in Saala Village in Wakiso; Sumba Trading Center in Wakiso; Butiti Ranch in Nakasongola
2	<p>French Development Agency (AFD) Funded Projects (Under Implementation)</p> <p>Extension of power to the North-Western Service Territory (Hoima, Masindi, Kibaale and Kiryandongo Districts); the Mid-Western, South and South-Western Service Territory (Mbarara, Isingiro, Ntungamo and Kabale Districts); the Mid-Western and South Service Territory (Lyantonde, Rakai, Masaka, Lwengo, Sembabule, Bukomansimbi and Kiruhura Districts)</p> <ul style="list-style-type: none"> Extension of power to the North Western and Rwenzori Service Territory (Kyejonjo, Kyegegwa, Kabarole, Kasese and Rubirizi Districts) Extension of power to the Mid-Western Territory (Mitooma, Sheema, Bushenyi and Buhweju Districts).
3	<p>ERT II - Reallocation of Funds (Completed)</p> <ul style="list-style-type: none"> Amuru - Anaka in Nwoya Kiziramfumbi - Kabale and Environs in Hoima; and Rubaare - Kakukuru Project in Ntungamo and Isingiro Interconnection line in Isingiro
4	<p>Rural Electrification Component under the Opuyo - Moroto 132 kV Electricity Transmission Line Project funded by the Islamic Development Bank in Nakapiripirit, Moroto, Amudat, Kotido, Kaboong, Napak and Abim districts. (Under Implementation)</p>
5	<p>The Arab Bank for Economic Development (BADEA) & OPEC Fund for International Development funded Projects (Under Implementation)</p> <p>Extension of power supply to the following Districts; Kamuli & Buyende; Jinja; Kayunga; Buikwe</p>
6	<p>132 kV Mirama - Kabale Electricity Transmission Line and Distribution Project funded by the Islamic Development Bank. (Under Procurement)</p> <ul style="list-style-type: none"> Extension of power to areas along Opuyo - Moroto 132kV power line route Northern, Central North, Eastern & North Eastern Service Territories (Katakwi, Agago, Pader, Kitgum, Soroti, Dokolo, Lira, Apac, Kole & Tororo) Extension of power to areas along Mirama - Kabale 132kV power line route (Kabale, Kisoro, Kanungu, Rukungiri, Ntungamo, Kyenjojo, Kabarole, Rubirizi, Ibanda, Isingiro, Mbarara and Mitoma)
7	<p>Grid Rural Electrification Project - funded by the Islamic Development Bank (IDB III). (Under Procurement)</p> <ul style="list-style-type: none"> South Western, North Western, South, Western & Rwenzori Service Territories (Kisoro, Kabale, Sheema, Kasese, Buliisa, Masindi, Hoima, Kibaale, Kamwenge & Kabarole Districts) North North West, Central North & Northern Service Territories (Amuru, Oyam, Moyo, Nebbi, Gulu, Alebtong, Amolatar, Lira, Kitgum & Lamwo) Central ST (Nakaseke, Luwero, Kiboga & Kyankwanzi); Central ST & Mid - Western ST (Wakiso, Mpigi, Lwengo, Bukomansimbi & Kiruhura); Central ST (Mityana, Buikwe, Mukono & Kyegegwa) Eastern & North Eastern Service Territories (Mayuge, Namayingo, Bugiri, Kibuku, Budaka, Bududa, Paliisa, Sironko, Mbale, Kween, Kapchorwa, Bukedea, Kumi, Ngora & Serere Districts)

Item	Project Name & Funding Institution
8	<p>Grid Extensions funded by Abu Dhabi Fund for International Development (Under Procurement)</p> <ul style="list-style-type: none"> Kalungu Project and Other areas in Greater Masaka Region (Masaka, Bukomansimbi, Lyantonde, Sembabule & Kiruhura Districts).
9	<p>Grid Extension projects under World Bank Funded Energy for Rural Transformation (ERT) -III</p> <p>Fast Tracked (Planned Projects; Engineering Design Review Studies are ongoing)</p> <ul style="list-style-type: none"> Ruhumba - Kashwa with tee-off Rwebishuri (Kiruhura); Kiganda - Mile 16 with tee-off Katabalanga & Kibyamirizi (Mubende); Wandu - Yumbe - Moyo (Arua, Yumbe & Moyo); Onduparaka - Odramachaku - Abiria (Arua) <p>Other Lines:</p> <ul style="list-style-type: none"> Kyabadaza - Masankwa, Nyanama, Mpenja - Maseruka, Kiriri - Kasasa, Mpenja - Nsambwe - Kanoni - Mamba - Mauki (Butambala & Gomba); Nakifuma - Nagojje, Walusimbi - Katogo - Mbaliga - Namele & Nakasajja - Kyampisi with tee-off Kasawo (Mukono); Kibaale - Kikalu, Namalemba - Nakalama & Namutumba - Mazuba; Nakalama - Nawangisa T-off to Buyanga and spur Butongole (Iganga); Kabowa - Lumuli - Budima (Jinja); Bubiita - Bukalasi & Mayoka (Bududa); Busitema URA Checkpoint - Namungodi - Busia with t-off to Buyunda, Buwumba and Bukikyua sub-county & Dabani (Busia); Wanale - Budwale and Environs (Mbale); Nampologoma, Namulo, Bufuja, Manyame, Butenga and Environs (Butaleja); Mubende - Kyabayanga - Ngangi with tee-off Kahirimbura, Kibaale - Kikwaya & Karuguza SS, Kibonge, Buronzi, Katete, Nyamarunda, Kitoro & Kabale PS (Mubende & Kibaale); Kiyagara - Bwizi, Biguri - Ntonwa, Ntara - Bwensamba (Kamwenge); Mitemula - Nakiyaga - Nkuke - Kyanamukaka with tee-offs Nkule - Ketengesa, Bukeri - Namirembe & Baale Landing sites, Kyanamukaka - Butamo (Masaka); Rukoni (Mailo 36) - Rwoho - Ngugo - Bugamba (Ntungamo); Bugangari - Rwenshama with tee-off to Mirama (Rukungiri & Kanungu); Karugutu - Ntoroko including Semiliki Safari Lodge (Ntoroko); Ngeta - Ayala - Alito - Ogur - Apala - Aloji - Adwari - Patongo; Dokolo - Agwata HCIII, Aceng - Dokolo - Atur, Dokolo - Apapai - Tiriri & Otuboi - Orungo - Acuna; Kagongo - Rwehshuri with tee-off Kigalama & Nyansimbo - Rwenkoobwa (Ibanda)
10	<p>Uganda Rural Electricity Access Project under the African Development Bank Funding (AfDB) (Planned Projects; Procurement of a Supervision Consultant is ongoing);</p> <ul style="list-style-type: none"> Central Service Territory (Nakasongola & Kiryandongo; Luwero); Central North, Eastern & North Eastern Service Territories (Alebtong, Amuria, Soroti, Mbale, Manafwa, Serere, Ngora, Bukedea and Environs); Eastern Service Territory (Kaliro and Environs); Eastern Service Territory (Iganga and Luuka); North North West Service Territory (Gulu, Nwoya & Lira) and Interconnection of Kalangala Island to the Grid
11	<p>Grid Extensions under the Kuwait Fund (Procurement of Supervision consultant is on-going)</p> <ul style="list-style-type: none"> North Western & West Nile Service Territories (Kiryandongo, Kibaale & Nebbi); and Western & South Western Service Territories (Bushenyi, Kasese & Rukungiri)
12	<p>Densification projects in various Districts under KfW funding (Engineering design review is on-going)</p>
13	<p>Densification projects in various Districts under ERT III funding (Environmental assessment studies are on-going)</p>
14	<p>Service Territory Master Plans (Planned Projects with feasibility studies ongoing)</p> <ol style="list-style-type: none"> Electrification of District headquarters: Buvuma and Sigulu Islands (Source of funds from Islamic Development Bank) Grid Extension feasibility studies under African Development Bank (AfDB); Electrification of Sub-county headquarters (Proposal submitted to China Exim Bank for Funding) Evacuation power lines for renewable generation plants: Plan and design power lines and switching stations to be able to evacuate power from all the upcoming generation plants.