



# MINISTRY FOR WATER AND ENVIRONMENT



**H.E. Y. K. Museveni** President of the Republic of Uganda



**Hon. Samuel Cheptoris**  
Minister of Water and Environment



**Hon. Kitutu K. MaryGorreti**  
Minister of State for Environment



**Hon. Ronald Kibuule**  
Minister of State for Water Resources



**Mr. Alfred Okot Okido**  
PS Ministry of Water and Environment



# CONGRATULATORY MESSAGE

*The Minister for Water and Environment, Minister of State for Environment, Minister of State for Water, the Permanent Secretary and Staff of Ministry of Water and Environment, CONGRATULATE His Excellency the President of the Republic of Uganda General Yoweri Kaguta Museveni, the Cabinet Ministers, Members of Parliament and all the people of Uganda on this auspicious occasion as the Manifesto week.*

The Ministry of Water and Environment recommits to implementing the NRM manifesto 2016-2021 by strengthening the monitoring and enforcement of the water permit conditions to reverse the pollution of our water and environment resources, increase access to clean and safe water to 100% through construction of various water supply facilities including rain water harvesting and increase access to safe and clean piped water to all Ugandans especially women and children. Priority will also be put to complying with the laws and regulations to safe guard our resources for the present and future generations.

The Ministry has been able to register tremendous achievements geared towards improving service delivery to the people of Uganda. These have been further aligned to Government strategic agenda of attaining the Middle income status by 2020. These can briefly be enumerated as; As of June 2017, the average access to safe water in rural areas was estimated at 70% Communities need however to be sensitized on hygienic practices in

order to maintain a safe water chain from the source up to storage at the household level. Access to clean and safe piped water in urban areas stands at 71%. Access to basic rural sanitation was 80% by June 2016. Only 35% of the pupils have access to washing facilities, which puts the lives of the pupils at risk of faecal related diseases leading to absenteeism. The national cumulative storage for water for production increased from 37.2 million cubic meters (in FY 2015/16), to 38.9 million cubic meters. This is just a small portion of the amount required meet all the livestock watering, irrigation and other economic needs.

Implementation of catchment based integrated water resources management activities is on-going in the 4 Water Management Zones (WMZs). Twenty surface water stations and eleven groundwater stations of the Water Resources Monitoring Network were upgraded from manual to telemetric data collection, which forms a major component in the development of an Early Warning Telemetry System since

it enables quick dissemination of the information products to the public and researchers.

Important achievements under included Policy Reviews to account for national interest in trans-boundary water resources, institutional reviews for improved management of cross-border river basins and coordinating investments and projects in trans-boundary basins and catchments. The percentage of Uganda's area covered by wetlands is estimated at 10.9%. Activities to restore wetlands are still ongoing in many districts. The forest coverage has further reduced and is now 9%. 12 % of the forests are under strict nature reserve. Forest reserves with management plans are now 36% of the total number of reserves.

The Ministry rededicates itself to implementing the NRM manifesto 2016-2021 by increasing access to safe and clean water to all Ugandans especially women and children who still bear the burden of carrying Jerri cans of water on their heads for long distances.

However, if we are to safe guard our water and environmental resources for the present and future generations, citizens and stakeholders have the responsibility to comply with the laws and regulations governing our resources to realise the countries potential.

For God and My Country!







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*H.E Yoweri Kaguta Museveni inspecting the Lirima Large Gravity Flow Scheme in Manafwa District*

**1. In the water sector** increased access to clean and safe water in rural areas within a radius of 1km has improved from 67% to 70% through development of solar powered mini piped water systems, construction of large Gravity flow schemes as well as construction of emergency pipe water supply systems. During the period of May 2017-May 2018, special attention was put on completion of projects, construction of the ongoing projects, carry out designs and procurement for new projects across the country.

**a. Projects Completed by the March 2017 under the Rural Water Supply and Sanitation Department (RWSSD)**

- Construction of Lirima Gravity Flow Scheme (GFS) Phase I in Manafwa district serving 42,590 people in the sub counties of Bubutu, Butiri and Bumbo, constructed Nyarwodho GFS Phase I in Nebbi district serving 29,800 people covering the sub counties of Alwi, Nyaravur, Kuchwinyi, Nebbi. Constructed Buboko- Bukholi Water Supply System in

the water stressed Namayingo district and it will be serving 22,470 people by 2031, constructed Wadelai Water Supply System in Nebbi district serving up to 7000 people.

- Other Projects completed were construction of 35 Pilot Solar Powered Mini Piped Systems across the country, rehabilitation of 289 chronically broken down boreholes countrywide and drilling of 201 hand pumps and production wells under emergency drilling in Karamoja region and Mayuge district. A

total of an additional 800,000 people have been served with piped water in the past 12 months.

**The Ongoing projects across the country include:**

- Construction of Bukwo Phase I in Bukwo district is at 98% completion and will be able to serve up to 17,420 people in the sub counties of Riwo, Kabei and Kortek.
- Construction of Bududa Phase I in Bududa district is at 90% completion and is going to serve 116,918 people.







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The Kiwangara Solar Powered Mini-Piped Water Schemes implemented by the Rural Water Supply and Sanitation Department in Lwengo District

- Construction of Butebo Health Center IV water supply system in Pallisa district is at 90% completion and is going to serve 21,236 people.
- Construction of Bukwo phase II is in Bukwo district is at 10% completion and will serve communities about 32,000 people in the sub counties of Kamet and Tulel
- Construction of Bududa phase II is in Bududa district is at 5% completion and will serve the communities in the sub counties of Nabweya, Town council and parts of Bukigayi and Bushiyi
- Construction of Nyarwodho phase II is in Nebbi district is at 5% completion and will serve about 25,000 people by 2023 in the sub counties of Packwach, Panyango and parts of Nyaravur.

**b. Projects Completed by the March 2017 under the Urban Water Supply and Sewerage Department (UWSSD)**

The Urban Water Supply and Sewerage Department set a target is to improve coverage from 80% to 100%. This is being achieved through the following undertakings;

- The Ministry of Water and Environment through the Urban Water Supply and Sewerage Department created de-concentrated structures including
- 4 regional Water and Sanitation Development Facilities (WSDF's) in the WSDF North- Lira, WSDF Central- Wakiso, WSDF South

west- Mbarara and the WSDF East- Mbale. The Ministry constructs **ALL** piped water supply and sanitation systems and hands over to either NWSC or Umbrella Authorities (UAs) of Water and Sanitation for Management, Operation and Maintainace.

- 6 regional Umbrella Authorities (UAs) of Water and Sanitation. i.e. UAs North in Lira, UAs Mid-Western in Kamwenge, UAs south- western in Kabale, UAs Karamoja in Moroto, UAs Central in Wakiso, and the UAs East in Mbale. The Umbrella Authorities were created to supplement NWSC works of management, Operation and Maintainace of constructed piped Water supply and

sewerage systems under the UWSSD covering Uganda. During the period 2013 and 2017 the Ministry of Water and Environment constructed 111No.

Piped Water Supply and Sanitation systems out of which 51No. Piped Water Supply and Sanitation Systems have been handed over to NWSC and 50No. Piped water supply and sanitation system have handed over to the Umbrella Authorities (UAs) of Water and Sanitation are currently managing 258 piped water supply system and another 320 are under their support of operation and maintenance.

**c Projects Completed and those ongoing by the 4 regional Water and Sanitation Development Facilities (WSDF's) between 2016 to date include.**

**In the Central region**, from 2016 to date, the Water and Sanitation Development Facility-Central (WSDF-C) has completed projects in; Kayunga in Kayunga, Kiboga in Kiboga, Ssunga in Masaka, Katuugo, Migeera and Kakooge in Nakasongola, Buvuma in Buvuma, Nyamarunda in Kibaale, Kikyusa in Luweero, Gombe – Kyabadaza in Butambala).

The on-going projects are cited as below; Kiwenda-Namulonge in Wakiso, Kabembe-Kalagi-Naggalama in Mukono, Kabwoya in Hoima, Kyakatwanga-Nyamarwa in Kibaale, Zigoti-Sekanyonyi in Mityana, Butiaba-Bugoigo-Walukuba in Walukuba, Kayunga-Busana in Kayunga.

**In the Northern region**, from 2017 to date, WSDF- North has completed construction in towns of Dokolo Town Council (TC), Patongo TC, Kalongo TC, Pajule Town Board

The Ministry rededicates itself to implementing the NRM manifesto 2016-2021 by increasing access to safe and clean water to all



H.E commissioning the Kiboga Town Water Supply in Kiboga District





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(TB), Okollo Rural Growth Center (RGC), Midigo RGC, Amach RGC and Amolatar TC. The Consumers are served at three levels namely: through private yard connections, Institution connections like in Schools and public water points in the form of kiosks and /or public stand-taps. Pacego RGC, Pabbo TB, Palabek Ogili RGC, Paloga RGC are completed and now awaiting commissioning and hand over for Operation and Maintenance to either Umbrella Authorities (UAs) of Water and Sanitation North or NWSC as seen fit by the Ministry.

The On-going Projects; European Union through “The Support Programme for the refugee settlements and host communities in the refugee hosting districts of Northern Uganda (SPRS –NU)” is supporting development of sustainable water supply and improve the environmental sanitation conditions in following settlements; in Adjumani (Maaji 2, Nyumanzi, Alere, Ayilo 11, Maaji 111, Pagirinya), Arua (Olujobo, Ofua, Ariaze, Eden) Kiryandongo (Ranch 1) and Yumbe (Bidibidi Zone V)

**In the Eastern region**, from 2016 to date, the following projects were completed; constructed Piped Water Supply Systems in the Towns of Kasambira, Nakapiripirit, Kapelabyong, Ocapa, Kyere, Iziru, Busedde-Bugobya, Buyende, Kagoma, Bubwaya in the Eastern Region. These piped Water Supply and Sanitation

systems are serving an additional population of 136,586 people through 1,185No. Yard tap connections and 32No. Public Stand Posts (PSPs). During the year 2017/2018 in the same Eastern Region 3No. are under construction in the towns of Bulengeni, Namagera and Namwiwa. By the end of the financial year another additional population of 39,612No. will be added to the populations of the people served in the Eastern region of Uganda.

**In the South Western Region**, 3No. Towns Water Supply and Sanitation Systems of Kashaka-Bubare, Nsiika and Kainja were constructed to completion. The 3No. Piped Water Supply and Sanitation systems are serving an additional population of 48,025No. People served through 1,022yard tap connections, 76No. Public stand Posts, and 40No. Community Kiosks. By the end of the financial year another additional population of 107,032No. will be served in the south western region where construction is on-going in the towns of Buyamba, Kiko; Kambuga I, Kambuga-II and Kihhi Extension. Katwe-Kabatoro and Rukungiri are

also still under construction and these will make an addition population of 122,491No.

**Improve access to Water for Production-**

The government strategy is to increase water for production cumulative storage from 27.8Mcm to 55Mcm.

There are several ongoing projects for construction of water for production facilities to improve the livelihoods of the people across the country. The sector is constructing and rehabilitating earth dams, valley tanks and constructing pilot irrigation schemes both small and large with a target of having at least one scheme per district. This is implemented

through its decentralized WFP regional centers and other projects in the Ministry like Farm Income Enhancement and Forestry Conservation- Phase II (FIEFOC- II) programme. The Water for Production Department is also operating and managing earth moving equipment for construction of valley tanks which are hired out to individual farmers at subsidized rates in a bid to improve agriculture and farming.

**The Directorate of Water Resources Management (DWRM)** is responsible for managing and developing water resources of Uganda

**In the Eastern Region piped Water Supply and Sanitation systems are serving an additional population of 136,586 people through 1,185 No.**



*H.E Yoweri Kaguta Museveni commissioning Dokolo water supply system in Dokolo District*





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in an integrated and sustainable manner in order to provide water of adequate quantity and quality for all social and economic needs for the present and future generations. The Directorate comprises of four departments namely Water Resources Monitoring and Assessment Department, Water Resources Planning and Regulation Department, Water Quality Management Department and the International Transboundary and Water Affairs Department. DWRM was established in July 2007 after the restructuring of the new Ministry of Water and Environment. The following are the DWRM recent achievements:

- c. The Ministry through the Directorate of Water Resources Management has developed the Enhancing Resilience of Communities to Climate Change through Catchment Based Integrated Management of Water and Related Resources in Uganda (EURECCCA) project. The Ministry received funding from the Adaptation Fund through the Sahara and Sahel Observatory (OSS) to implement the project in Uganda. The project will among others support the Uganda Government's efforts to implement and promote Integrated Water Resources Management. The legal agreement between the Adaptation Fund Board and OSS as an implementing entity was signed on November 28<sup>th</sup> 2016 while the Legal Agreement between the Government of Uganda and OSS was signed on March 9<sup>th</sup>, 2017. The project was launched in Uganda on 5<sup>th</sup> May 2017.

The project was launched and being implemented in 3 catchments namely Awoja found in Kyoga Basin found in Kyoga Water Management Zone, Aswa found in Aswa Basin in Upper Nile Water Management Zone and Maziba found in Kagera Basin in Victoria Water Management Zone. The project has contributed towards addressing the critical challenges related to natural resources management and sustainable socio economic development without destroying the environment which is the major source of income for many livelihoods.

- d. The Water Resources Institute (WRI) has been established as part of the Ministry of Water and

**Ministry of Water and Environment (MWE) reforms, and in response to wide consultations that pointed out the need to address issues of increasing pollution**



1. Iwemba Valley tank and Irrigation Scheme in Bugiri District

Environment (MWE) reforms, and in response to wide consultations that pointed out the need to address issues of increasing pollution, climate variability, and reduction in water availability, and to balance water needs for agriculture, energy, industry and households in the country.

gap between theory and practice. It will profile the central position of water resources in national development with a vision of ensuring that Uganda's water resources are utilized optimally. Its core business is to be a center of excellence that provides cutting edge applied research and training; delivers continuous professional

The Institute is intended to bridge the



The launch of the EURECCCA project





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skills development across all levels in water resources management and development, and serves as a neutral place for dialogue and outreach.

The Water Resources Institute shall offer structured and well facilitated dialogue at National level that is necessary for improving the water resources management and development in the sector at all levels.

The institute is currently hosted and housed in the current premises of the Directorate of Water Resources Management in Entebbe and was officially launched by the Rt. Prime Minister of Uganda, Dr. Ruhakana Rugunda on 21<sup>st</sup> March 2018 during the Uganda Water and Environment Week.



*Rt. Hon Prime Minister Dr. Ruhakana Rugunda launching the Water Resources Institute during the Uganda Water and Environment week*

### 2. The ENVIRONMENT & NATURAL RESOURCES Sub- sector

#### a. Increase the country's forest cover from 10% to 15% by 2021.

- **Seed and seedling:** A cumulative total of 1,210.16Kg of tree seed out of 1,368Kg targeted were procured, and 1,092.18Kg sold to private nurseries. The ministry introduced tree planting exercise on all national holidays by involvement of the population in tree planting through the greening Uganda program and a total of a cumulative total of 9,984,445 seedlings were produced against 17,629,193 targeted for the year. More effort are being made to ensure that more people plant trees including those who want to invest in tree planting on a large scale. In addition, a total of 1,767.25 hectares were restored and, 2,279 hectares of plantations under Central Forest Reserves were maintained countrywide.
- **Boundary opening and marking with pillars:** The National Forestry Authority has 10,000 Km of Central Forest Reserves (CFR), while Local Forest Reserves have 2,000 Km of forest cover. By May 2017, 385.41 Km of forest boundaries were re-surveyed and demarcated with permanent concrete pillars to effectively secure the integrity of the Central Forest Reserves. The CFR Forest boundaries opened include in Kagombe (21), Kasongire (43), Namanve (19.72), Buto-Buvuma (33.878), Gangu (17), Buwa (15.497), Kangombe (28), Mwiri (11.270), Ntungamo (3.85), West Uru (1.00) and Towa (2.00,400 pillars were) Km.
- **Plantation establishment:** Government is supposed to invest in plantation of 2,500 Ha per year. By the end of May 2017, 563 hectares of new plantations out of 875 targeted for the year in Mafuga 44.5,



*Vice President Hon. Edward Ssekandi the Chief Guest in a group photo during the opening of the Uganda Water and Environment Week 2018*



*HE President planting a tree during the ground breaking of Kikyenyeky-Nabuhiky GFS in Ibanda district as the Ministry officials look on*





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Mbarara 75, South Busoga 10, Muzizi 30, NTSC 04 of *grevillia robusta* planted in Kagoora CFR and Mwenge 100 Gangu 200ha supported by UETCL funded by World Bank. The low plantation establishment is attributed to low rainfall received during the reporting period. Also 1802.25ha were restored (1500ha in Mabira and 30ha in Natyonko).

**b. Private sector contribution towards forest plantation development:**

NFA in the final stages of licensing 40,000ha to private tree farmers to establish and develop forest plantation. Mapping and zoning the area to be licensed is ongoing, and adverts will soon be put in the media for interested parties to apply.

- Law enforcement and governance; Enforcement unit in conjunction with field staff and Environmental Protection Police undertook 8,186 forest patrols across CFRs in areas of Kagombe, Bugoma, Minziro, Kifu, Lwamunda and Lwakima in Mabira CFR. The enforcement team impounded 108.645 cubic metres of timber, and 490 encroachers were peacefully removed. Also carried out 03 sensitizations.

**C. Increase the country's wetlands cover from 10.9% to 12% by 2021.** The sector continued with

the demarcation of wetlands to ensure gazettement of 2880Kms of boundaries of major critical wetlands and restoration of 19,840ha of degraded section of wetland countrywide. The completed and on-going activities in this respect are:

**Completed Projects**

- By the end of May 2017, 3,200 pillars and 3,200 beacons had been supplied to Kisoro, Sheema Hoima, (Western) Kiboga, Luwero, Nakasongola and Gomba (Central), Dokolo, Nebbi, Maracha and Amuru (Northern) and Namutumba, Buyende, Pallisa Iganga, Amuria.

- A total of 106.7 Kms of critical wetlands demarcated in Kisoro, Iganga and Kiboga Districts to maintain the integrity and enhance compliance and coded **critical**

**20 surface water stations and 11 ground-water stations of the Water Resources Monitoring Network were upgraded from manual to telemetric data collection.**

wetlands in Kioga and Lake Victoria basin in the districts of Mukono, Jinja, Kamuli, Iganga, Busia, Tororo, Pallisa, Kumi, Wakiso, Kampala, Mityana, Masaka, Lyantonde, Sembabule, Rakai, Mbarara, Mpigi in preparation for gazettement across the country to raise their legal status and integrity. Furthermore, a total of 141ha of degraded section of wetland and river bank have been restored in the districts of Mitooma,

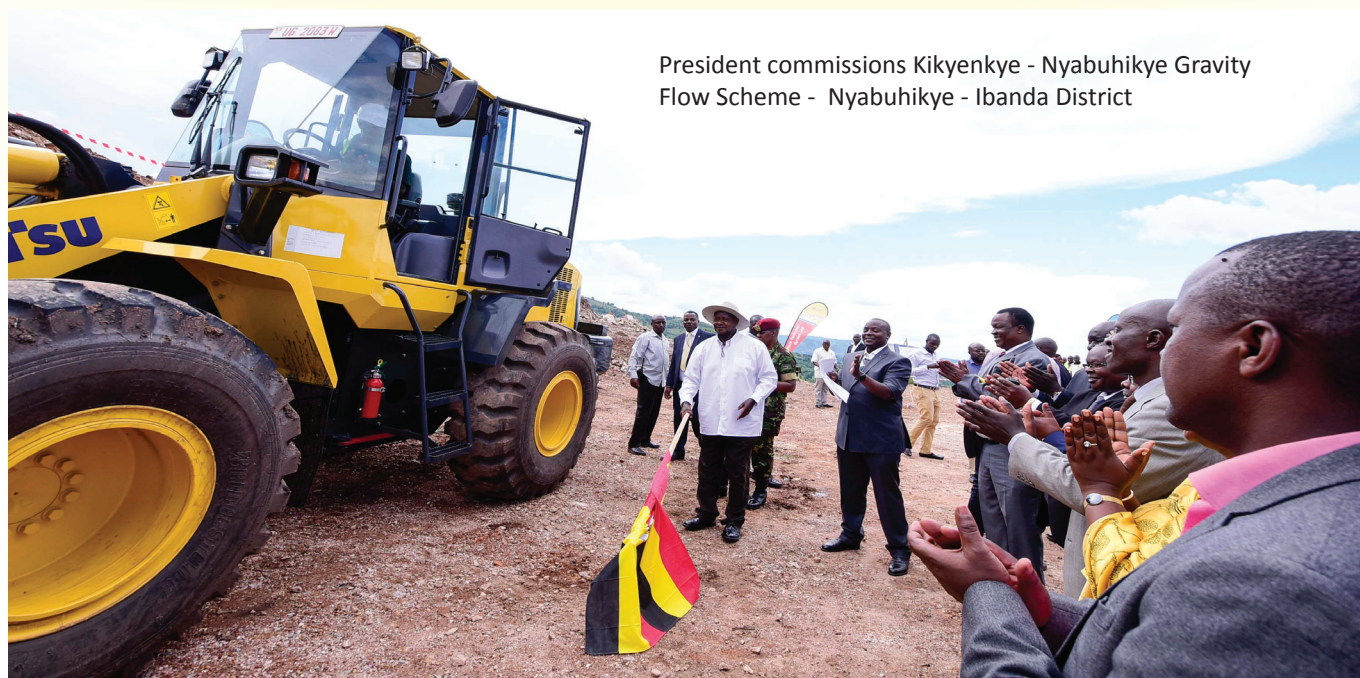
Kumi, Kampala, Kasese, Aleptong, Ngora, Bukedea, Manafwa, Buhweju, Masaka, Jinja, Kamwenge. The restored section is naturally.

**b. Enhancing the sustainable Natural Resources Management for livelihood improvement**

The Ministry through the Directorate of Water Resources Management has developed 10 catchment management plans in the four zones, (Mpaga, Awoja, Semiliki, Rwizi, Aswa, Victoria Nile, Mpologoma, Albert Nile, Maziba and Ruhezamyenda). Another major activity of the ministry has been on restoration of riverbanks/streams in degraded flood prone areas in 4 catchments of Awoja, Manafwa, Mpaga and Semiliki.

Acquisition of real time data from hydrogeological monitoring stations is a major component in the development of an Early Warning Telemetry System. 20 surface water stations and 11 ground-water stations of the Water Resources Monitoring Network were upgraded from manual to telemetric data collection.

Compliance to waste water discharge permit conditions improved slightly from 56% to 59%. The biggest waste water dischargers such as, sugar manufacturing companies and leather tanning industries have improved their compliance to waste water discharge regulations. Enforcement efforts continue to ensure that permit holders put in place measures to comply with the waste water discharge conditions.



President commissions Kikwenye - Nyabuhikye Gravity Flow Scheme - Nyabuhikye - Ibanda District