






## Project Implementation 2021

Project implementation for 2021 (Jan-Dec) is summarized below;

### Output 1: Enhanced capacity of cities/ municipalities to develop waste management plans and manage municipal solid waste and wastewater in a more sustainable manner

Activity
<p>1. Enhancing the capacity of 5 Cities (Mbale, Jinja, Mbarara, Masaka, Kampala) to undertake sensitization campaigns on biogas and waste management for females and males</p> <ul style="list-style-type: none"><li>• A bench marking visit to Kampala Capital City Authority (KCCA) and NWSC was undertaken by the cities of Jinja, Masaka, Mbale and Mbarara from 24<sup>th</sup> – 25<sup>th</sup> August, 2021.</li></ul>
<p>2. Updating and developing gender responsive waste management plans and ordinances including the selection of appropriate biogas technology consideration, off take and tipping fees amongst others for the pilot cities Jinja, Masaka, Mbale and Mbarara</p> <ul style="list-style-type: none"><li>• Follow up made with regards to gazettment of amended/ developed waste management ordinances for the cities of Jinja, Masaka, Mbale and Mbarara. NEMA in collaboration with City authorities advanced the ordinances through first stages of approval i.e. consultation with the Technical Planning Committees.</li></ul>
<p>3. Updating and developing gender responsive waste management plans, ordinances and by-laws for the additional Cities of Arua, Fortportal, Gulu, Hoima, Soroti, Lira and Municipalities of Kabale, Masindi and Tororo.</p> <p>Initiated updating of waste management plans, ordinances and by-laws for the respective cities and municipalities to include promotion of waste to energy systems, off take and tipping fees, gender considerations amongst others, facilitated by the National Environment Management Authority (NEMA).</p> <ul style="list-style-type: none"><li>• Supported the cities of Arua, Fortportal, Lira and municipalities of Tororo, Masindi and Kabale to conduct radio talk shows, develop and air radio spot messages with regards to IWM and resource recovery from waste.</li></ul> <p> AUD-20211205-WA 0010.mp3      AUD-20211205-WA 0009.mp3     <b>Masindi Municipality</b></p> <p> FORTPORTAL CITY AD.mp3     <b>Fortportal City</b></p> <p> NAMA Project - Ad (Eng).mp3     <b>Arua City</b></p>
<p>5. Enhancing the capacity of Kampala City to undertake sensitization campaigns on biogas and waste management for females and males (September, 2021)</p> <ul style="list-style-type: none"><li>• Held a two-day workshop training for 25 technical personnel from Greater Kampala Metropolitan Area on best practices in sanitation, waste management and resource recovery on 16<sup>th</sup> and 17<sup>th</sup> September, 2021.</li><li>• Launched the Technical Working Group (TWG) for Greater Kampala Metropolitan Area (GKMA) on Waste Management, Sanitation and Resource Recovery on 23<sup>rd</sup></li></ul>

<p>September, 2021 at Hotel Africana by the Lord Mayor, Kampala City, Hon. Erias Lukwago.</p> <ul style="list-style-type: none"> <li>• <a href="https://www.youtube.com/watch?v=PN3zGOh7fF4">https://www.youtube.com/watch?v=PN3zGOh7fF4</a></li> <li>• <a href="https://www.youtube.com/watch?v=9PJVenmAk2M">https://www.youtube.com/watch?v=9PJVenmAk2M</a></li> <li>• <a href="https://www.youtube.com/watch?v=SxtBxl0n6s0">https://www.youtube.com/watch?v=SxtBxl0n6s0</a></li> </ul>
<p>6. Enhancing the capacity of Masaka City to undertake sensitization campaigns on biogas and waste management for females and males (September, 2021)</p> <ul style="list-style-type: none"> <li>• A total of 81 participants (30 men and 51 women) were trained in production of briquettes from waste in Masaka City.</li> </ul>  <ul style="list-style-type: none"> <li>• AUD-20210910-WA0017.mp3</li> </ul>
<p>7. Enhancing the capacity of Mbale City to undertake sensitization campaigns on biogas and waste management for females and males (September, 2021)</p> <ul style="list-style-type: none"> <li>• Supported re-launch of the Keep Mbale City Clean Campaign. The event was held on held on the 20<sup>th</sup> October, 2021.</li> <li>• <a href="https://www.youtube.com/watch?v=uPHDZZ4MJuo-">https://www.youtube.com/watch?v=uPHDZZ4MJuo-</a></li> </ul>
<p>8. Enhancing the capacity of Jinja City to undertake sensitization campaigns on biogas and waste management for females and males (September, 2021)</p> <ul style="list-style-type: none"> <li>• Trained and sensitized 60 technical personnel and newly elected politicians on Integrated Waste Management and resource recovery approaches.</li> </ul>
<p>9. Enhancing the capacity of Mbarara City to undertake sensitization campaigns on biogas and waste management for females and males (October, 2021)</p> <ul style="list-style-type: none"> <li>• Trained and sensitized at least 50 technical personnel and newly elected politicians were sensitized on Integrated Waste Management approaches.</li> </ul>
<p>10. Support establishment of the multi-stakeholder platform on waste management and biogas</p> <ul style="list-style-type: none"> <li>• The national waste to energy (WtE) thematic working group was launched on 30<sup>th</sup> September, 2021 at Source of the Nile Hotel, Jinja.</li> <li>• <a href="https://www.youtube.com/watch?v=OuS7ZpCayLQ">https://www.youtube.com/watch?v=OuS7ZpCayLQ</a></li> <li>• <a href="https://www.youtube.com/watch?v=Y7m1IWl4Xog">https://www.youtube.com/watch?v=Y7m1IWl4Xog</a></li> </ul>
<p>11. Review the draft National Solid Waste Management Plan and provide updates and recommendations for inclusion of biogas systems (November, 2021)</p> <ul style="list-style-type: none"> <li>• A two-day workshop was held where the draft National Urban Solid Waste Management Policy (NUSWMP) under the Ministry of Lands, Housing and Urban Development was reviewed to align it with provisions for waste to energy concerns.</li> </ul>
<p>12. Benchmarking visit to Accra, Ghana (December, 2021)</p> <ul style="list-style-type: none"> <li>• A benchmarking trip comprising technical personnel and politicians from key project stakeholders i.e. Kampala Capital City Authority (KCCA), National Water and Sewerage Corporation (NWSC), Ministry of Finance, Planning and Economic Development (Public Private Partnerships Unit), Ministry of Energy and Mineral Development (MEMD), National Environment Management Authority (NEMA), Mbale City, United Nations Development Program (UNDP) was conducted to Accra, Ghana.</li> </ul>

## **Output 2: Biogas and WWT plants using MSW feedstock and sewage sludge procured and fully operational**

<b>Activity</b>
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<p>13. Conduct Technical Feasibility study to select suitable site for biogas to electricity plant utilizing waste generated in KCCA</p> <ul style="list-style-type: none"> <li>• Held review meetings for progress of the feasibility study on 4<sup>th</sup> and 17<sup>th</sup> February, 2021.</li> <li>• Visited proposed location of biogas to electricity plant at Kiteezi on 15<sup>th</sup> May, 2021.</li> <li>• Monitored laboratory experiments for waste characterization studies for KCCA on 14<sup>th</sup> – 15<sup>th</sup> September, 2021.</li> <li>• Final feasibility study report reviewed and approved by the technical committee for the assignment on 15<sup>th</sup> November, 2021.</li> <li>• Submitted the Environment and Social Impact Assessment (ESIA) for the feasibility study to National Environment Management Authority (NEMA) for review on 22<sup>nd</sup> December, 2021.</li> </ul>
<p>14. Conduct Technical Feasibility study to enhance biogas production from Nakivubo Wastewater Treatment Plant (NWWTP) at National Water and Sewerage Corporation (NWSC)</p> <ul style="list-style-type: none"> <li>- Monitored laboratory feedstock characterization studies on 26<sup>th</sup>-27<sup>th</sup> February, 2021.</li> <li>- Submitted Scoping Terms of Reference for the ESIA for enhancement of biogas production at NWSC Nakivubo WWTP in June, 2021.</li> <li>- Reviewed and approved progress report for the assignment on 19<sup>th</sup> August, 2021.</li> </ul>
<p><b>Activity</b></p>
<p>15. Elaboration of conceptual Proposals (Develop a gender strategy for the project) (Jan – May, 2021)</p> <ul style="list-style-type: none"> <li>• Developed a strategy and Action Plan for mainstreaming gender considerations in the project.</li> </ul>

#### **Output 4: Lessons learnt and success of the demonstration projects replication and scaling up of project results**

<p><b>Activity</b></p>
<p>17. Develop/ update of standardised baselines for calculating emissions reductions from Biogas (Jan – July, 2021)</p> <ul style="list-style-type: none"> <li>• Reviewed updated standardized baseline for methane recovery from municipal wastewater</li> <li>• Reviewed updated standardized baseline for methane recovery from industrial wastewater in the sugar industry.</li> </ul>
<p>18. Conducted spot-check audit for NAMA Biogas Project in December, 2021 for the period Jan – Oct, 2021.</p>
<p>19. Conducted lessons learned studies</p> <ul style="list-style-type: none"> <li>• Catalogue for lessons learned/ 2021 updated</li> </ul>
<p>20. Held four Project Technical Committee meetings</p> <ul style="list-style-type: none"> <li>• Reviewed and approved quarterly project reports.</li> <li>• Formulated strategies to fast-track project delivery.</li> <li>• Identified issues for the board to consider and approve with the aim of improving project delivery.</li> </ul>
<p>21. Held two Board meetings (Mid-year Board meeting on 20<sup>th</sup> August, 2020 and End of year board meeting on 30<sup>th</sup> September, 2021)</p> <ul style="list-style-type: none"> <li>• Reviewed and approved the 2021 Annual Progress report</li> <li>• Reviewed and approved the 2022 (Jan-Dec) Annual Workplan and Budget</li> <li>• Reviewed and approved the 2022 (Jan-Dec) Procurement Plan</li> </ul>
<p>22. Project Mid-term review (June – Dec, 2021)</p>

- Procured a national and international consultant to undertake the mid-term review in June, 2021.
- The inception report for the was reviewed and by project stakeholders on 29<sup>th</sup> June, 2021.
- Conducted field consultations in September, 2022.
- Reviewed the situational analysis report in November, 2021.
- Reviewed draft report in December, 2021.

### **Impact of COVID-19 on project delivery**

Despite accomplishing the activities above, the project experienced delays, among other reasons due to the COVID 19 lock down measures which slowed implementation of project activities especially between the months of April – August, 2021. Among activities that were affected, the laboratory feedstock experiments for the two feasibility studies for biogas to electricity plants for KCCA and NWSC sites suffered a huge set back. This increased the duration of the assignments, which spilled over to 2022. Nevertheless, the project team in collaboration with UNDP and Responsible Partners devised strategies to fast-track delivery for the remaining part of the year through adaptive management in consultation with project stakeholders.