

Resource Recovery and Safe Reuse (RRR) Side Event @ FSM5

Date, Time and Venue

Date: Wednesday 20. February 2019

Time: 10:30 to 12:30 hours

Venue: Seal Island/Robben Island room on the Mezzanine Level of **Westin Hotel** (adjacent to CTICC), Cape Town, South Africa

Objectives

This 5th International Faecal Sludge Management (FSM5) Conference side event is organised as part of the Resource Recovery & Safe Reuse Project - Phase III project (2017 - 2019), that is implemented by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH's Enhancing Water Security and Sanitation (ENWASS) Programme and the Kampala Capital City Authority (KCCA) in partnership with National Water and Sewerage Corporation (NWSC), Water for People, cewas and Sanivation. The side event aims at:

- Bringing together key stakeholders in Resource Recovery and Safe Reuse (RRR) with a special focus on Faecal Sludge Management (FSM).
- Presenting and putting up for discussion FSM experiences and Business Models in Kampala (Uganda) and neighbouring countries.
- Exploring avenues and discussing necessary conditions for private sector engagement in the safe reuse of faecal sludge (e.g. FS-based fuel briquettes, etc.).

We look forward to your participation in this FSM5 side event!

Agenda & Outline

10:30 - 11:55 Welcome Address (by Mr. Christian Rieck, GIZ-ENWASS)

RRR - The NWSC Perspective (by Eng. Mary Oyuru, NWSC)

National Water and Sewerage Corporation (NWSC) is the utility responsible for provision of water and sewerage services in cities and urban centres in Uganda. Whereas NWSC's mandate only covers treatment of sewage, it also receives and treats faecal sludge in selected treatment plants.

Dried sludge is one of the bi-products of the treatment process is recovered for use in various products. The successful reuse of the sludge is dependent on a number of factors. This presentation highlights the Corporation's role in RRR and covers key interventions, challenges and future plans of NWSC, as well as strategic engagements with other actors in the sector.

Initial Experiences and Lessons Learned from Production of Faecal Sludge Briquettes in Kampala (by Ms. Yvonne Lugali, Water for People)

Water for People, an international NGO, is working to end this global crisis with market-based solutions that can be replicated and scaled to create self-sustaining value chains across entire markets. As part of the efforts to ensure market driven approaches in sanitation, we planned to scale-up the production of Faecal Sludge briquettes as an alternative fuel source. This scale-up involved setting up of a briquette production plant and a carbonization unit in Kampala in partnership with National Water and Sewerage Corporation. This presentation will highlight the journey so far, experiences and lessons learnt plus future interventions.

Comparison of Business Models for Faecal Sludge Reuse at Lubigi WW&FSTP (by Ms. Catherine Berner, Sanivation)

Kampala's WASH leaders are looking for sustainable sanitation solutions that can achieve SDG6 across the city. Sanivation evaluated resource recovery business models based on financial performance, implementation feasibility and market potential. Recommendations were based on the potential to incorporate resource recovery into the FSM value chain and integrate resource recovery into Kampala's plans for new treatment plants. The study also recommended a method to evaluate working with a private partner to implement resource recovery ventures.

Financial Analysis of Briquette Businesses in Kampala, Uganda (by Mr. Martin Wafler and Prof. Vincent Bagire, cewas)

Presentation and discussion of primary findings of a financial analysis of selected micro- and small-scale briquette businesses in Kampala, Uganda. The assessment serves as the basis for piloting the safe and financially profitable reuse and recovery of resources from faecal sludge waste streams.

"DEWATS for Dar" - Faecal Sludge Management Business Approach, Tanzania (by Mrs. Jutta Camargo, BORDA)

The DEWATS for Dar' project was originally designed as a product innovation approach, to empower local entrepreneurs by providing start-up loans, technology transfer and infrastructure to solve community sanitation challenges in a financially sustainable way in Dar es Salaam. The model uses locally manufactured latrine emptying tools and a decentralized sludge treatment to provide accessible pro-poor latrine emptying services.

The vision was the sustainable replication of this model would prove it is a safe investment to financiers and that these systems can be replicated throughout Tanzania. However, current challenges with the existing enabling environment in the sanitation sector needed adjustments during project implementation and new ideas to make the model interesting to private business owners and financiers.

11:55 - 12:30 Discussion/Interaction on "Exploring Avenues and Necessary Conditions for Private Sector Engagement in the Safe Reuse of Faecal Sludge" (facilitated by Mr. Johannes Heeb, cewas)

Closure of RRR-Side-Event (facilitated by Mr. Johannes Heeb, cewas)

Background & Context

The Enhancing Water Security and Sanitation (ENWASS) Programme implemented by the Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH supports Kampala Capital City Authority (KCCA), the Ministry of Water and Environment (MWE) and its Directorate of Water Development (DWD), National Water and Sewerage Corporation (NWSC) and other key stakeholders in improving the sanitation sector of Kampala. One of the focus areas lies in Faecal Sludge Management (FSM) in the Capital City, while at the same time promoting private sector engagement in the sector through the support of Resource Recovery and Safe Reuse (RRR) business models that deal with faecal sludge as well as complementary waste streams.

Contact/info

Please contact Mr. Martin Wafler (martin.wafler@cewas.org) if you have any questions.