



THE EXCITING WORLD OF FAECAL SLUDGE RE-USE Exploring turning poop into gold



8TH JULY 2020 - 8.30 TO 13.00



Meeting ID 852 0231 3363















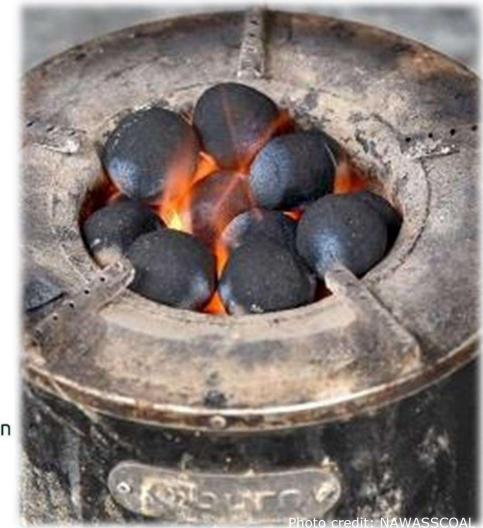


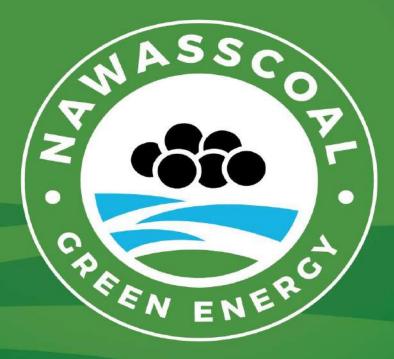


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Block 2: BIOMASS FUELS







HUMAN POO TRANSFORMED INTO FUEL FOR KENYA URBAN POOR PRESENTER: JOHN IRUNGU- GENERAL MANAGER

Makaa Dotcom



NAWASSCOAL produces fuel briquettes (MakaaDotcom) from a combination of faecal sludge and sawdust with molasses as a binder



Briquette Production Process





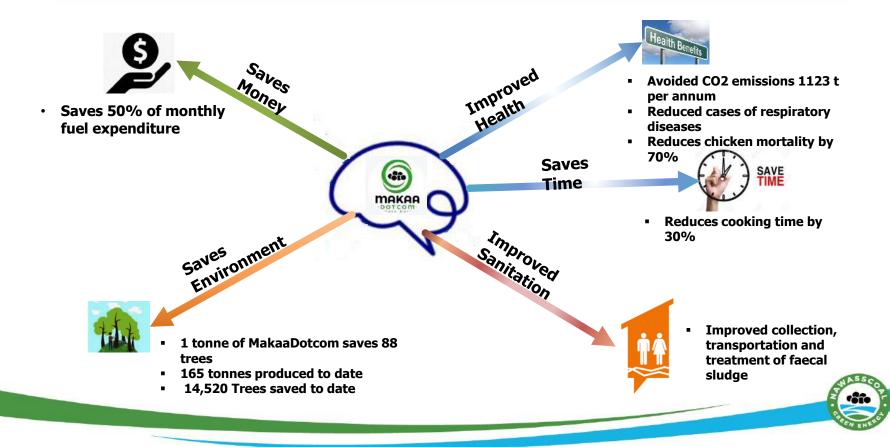




From Household to Household



Our Value Proposition



Why Makaa Dotcom?

SDG 6: Clean water and Sanitation

- Improved sanitation
- Management of fecal sludge

SDG 7: Affordable Clean Energy

- MakaaDotcom is an alternative to charcoal
- Production target 10 tonnes per day

SDG 8: Decent Work and Economic Activity

- Job Opportunities
- Creating circular economy
- Profits to the company

SDG 9: Industry, Innovation and Infrastructure

- Growth of manufacturing industry
- Contribute in achieving vision 2030



SDG 11: Sustainable cities and Communities

- Make Nakuru Town clean/Green
- Improved livelihoods

SDG 13: Climate Action

- 1 tonne of MakaaDotcom saves 88 trees
- Conservation of Forest/Water catchment Areas

SDG 17: Partnership for the Goals

- Partnership development partners
- Partnerships with County Government

Challenges / Advantages

- High capital investment
- Inadequate local technologies
- Lack of standards & Policies for faecal based products in the country
- Product perception

- Unlimited source of raw material
- Large market potential
- Energy challenge solution
- Saves trees
- Creation of employment



Where we want to be

- To grow from 15 tons per month to 150 tons per month by 2025
- To enhance alternative energy solutions
- To create more employment for youth and empower women
- To expand and diversify into other faecal based products

Come talk to us!

Find our publications (Popular publication, Scientific Journals, and videos) on our website: https://nawasscoal.co.ke/

Also follow us on Twitter - @MakaaDotcom and Facebook - MakaaDotcom

Email: johnirungu50@gmail.com



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Q & A BIOMASS FUELS



Potential use of FS char briquettes as a cooking energy in Dar es Salaam, Tanzania





Presented by: Petro Mwamlima Lecturer

Ardhi University (School of Environmental Science and Technology)





























Production Cont...







ARDHI UNIVERSITY

P.O.BOX 35176



DAR ES SALAAM, TANZANIA

Email: petro.mwamlima@aru.co.tz

Website: http://www.aru.ac.tz/

PATENT OWNED (Link below)

http://www.peienterprises.co.tz/uploads/upload/Utility%20Certificate_%20Invention%20of%20PSP%20machine.pdf

PUBLICATIONS ON FS CHAR BRIQUETTES (Links below)

- https://www.eawag.ch/fileadmin/Domain1/Abteilungen/sandec/publikationen/EWM/Treatment_Technologies/fs_pyrolysis_ report_petro.pdf
- <u>https://www.eawag.ch/fileadmin/Domain1/Abteilungen/sandec/publikationen/SWM/Carbonization_of_Urban_Bio-waste/slow_pyrolysis_manual.pdf</u>



EXPERIENCE ON THE PROCESS OF STANDARDS DEVELOPMENT ON BRIQUETTES IN TANZANIA

Joseph Emmanuel Ismail

Tanzania Bureau of Standards (TBS)





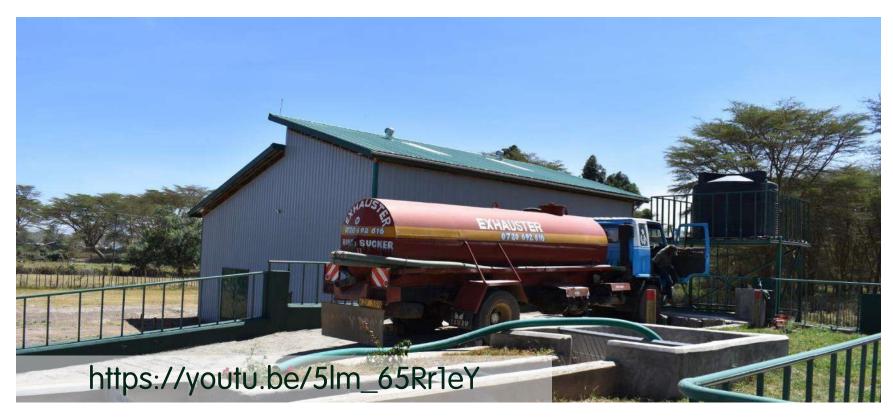
SANITATION FOR SECONDARY CITIES

Dickson Ochieng Director Govt Relation, Sanivation dickson@sanivation.com July 8th 2020 Re-Use Webinar



OUR VALUE PROPOSITION

Cost-effectively enabling secondary cities in Africa to scale sanitation services













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Q & A BIOMASS FUELS











THANK YOU FOR JOINING US!























