

Slamson Ghana, Ltd.
Resource Recovery Projects
Updated: September 19, 2016

Bolah Bondeh Project: Organic Compost
RVO funding: 2015-2020

During the time that Slamson managed the site at the Korle Lagoon from 2013 to 2015, the company investigated a number of options so that the resources produced by the plant (reject water and dried solids) could be recovered and recycled into useful products.

In 2015, Slamson was awarded funding from RVO (Dutch development agency) to build and operate an organic compost plant adjacent to the new Lavender Hill treatment facility. Since August 2015, Slamson, as lead partner, has been guiding the inception phase of the Bolah Bondeh project with partners in the Netherlands and Ghana. Once the Lavender Hill waste treatment site is commissioned in 2016, the dried sludge produced by the facility will serve as the raw material for the production of organic compost.

This compost will first be sold to urban and peri-urban farmers in the Greater Accra region, and then to further national and international markets. Over time, this entire treatment system has the potential to operate on a cost recovery basis.

SEE: <http://www.rvo.nl/subsidies-regelingen/projecten/bolah-bondeh>

Charcoal

In investigating ways to use dried sludge, Slamson came across on-going research examining systems to convert waste by-products into charcoal. With over 60% of many populations relying on charcoal for their primary source of energy in the developing world, and deforestation occurring on a massive scale, Slamson embarked on sourcing different low-cost methods for producing this valuable energy source in an environmentally and socially sound way. **SNV Ghana (Dutch development agency) worked with Slamson's team to develop an appropriate technology for the production of charcoal that has been tested in the local community.**

Slamson's activity in developing appropriate technology for the production of charcoal from dried sludge caught the attention of new agencies, and both the BBC and Tokyo Broadcasting Service profiled Slamson's work at the end of 2015.

SEE: <http://www.bbc.com/news/world-africa-34802143>



Methane gas extraction > Electricity

In 2014 Slamson became aware of the fact that many landfills in the Greater Accra regions are “ticking time bombs”. That is, there is a serious hazard related to the increasing quantities of gas build-up, particularly methane gas, which results from the breakdown of organic matter in these landfills.

With the city rapidly expanding, and land becoming more scarce (and valuable), there is great potential for many development projects close to or upon these landfill sites. However, in order to develop safely close to these sites, there must be a strategy in place to deal with gas build up, which could continue over decades after the capping of a landfill.

Slamson, thus, began sourcing low-cost technology that could provide an appropriate solution to this problem in Accra, and offset another problem, provision of electricity. **Slamson partnered with a Danish engineer to develop a low-cost, easily implemented technology that could not only help with the release of dangerous gases, but also capture the methane gas for electricity.** Slamson’s Danish partner travelled to Ghana in June 2014 to assist with pre-feasibility work for the extraction and conversion of methane gas on already closed/capped landfills in the Greater Accra region. In turn, members of Slamson’s team (Fredrik and Sam), and a member of the Ministry of Local Government and Rural Development (Mr. Daniel Kabe) traveled to Denmark in order to observe the construction and operation of the technology.

Most recently, **Slamson was awarded a permit from the Energy Commission of Ghana (ECG) to extract landfill gas and sell it to the national grid.** This practice is consistent with Ghana’s Renewable Energy Act, which requires that 10% of all consumer energy come from renewable sources. Armed with their license and the technology, **Slamson began discussions in 2015 with J. Stanley-Owusu**, owners of a number of landfill sites in Ghana, to implement this low-cost and appropriate solution for extracting methane gas from their landfill sites, and selling it to ECG’s national grid.

To see how Slamson can help you with your project, contact Fredrik Sunesson.

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