

Annual Conference on
GREEN CATALYSIS AND SUSTAINABLE ENERGY
November 15-16, 2018 Dubai, UAE

Waste to energy in developing countries

Maryam Jabara

University of London, UK

This is a design based report which looks at the various and different waste-to-energy plants that have been put into place in some major countries in Africa, from the Bill Gates funded Janicki Omni-processor in Senegal to the small-scale portable toilet, the “Blue Box”, in Kenya, and all the way to the different designs created by the Swedish company, Aquatron. It also highlights the major issues countries, especially developing ones, are suffering from and how the urge to solve these problems brought about a greater interest in designing and developing more waste management organisations with the key purpose of producing a cleaner, more sustainable source of energy from the most unpredictable resource, human faeces. The challenges faced with turning waste into energy, whether faeces are in fact likely to be more constantly used later on as a fuel around the world, and a smaller scale proposed design system that is cheap, easy and practical to use and that could potentially reduce any present complications, are all the aspects broadly accounted for in the main body to follow. Finally, all the reasons behind the design including the advantages of solid-liquid waste separation and how this increases the efficiency of the process are predominately touched upon.

Biography

Studying an engineering degree has helped me acquire critical analysis and logical thinking skills, which in turn resulted in improved decision making and greater confidence when dealing with and solving problems. One of the reasons I chose a degree in sustainable energy, was to give back to society in one way or another. I grew up in Nigeria, which meant that I had a front row seat to all the electricity problems and pollution that developing countries still experience today. Following a career path like this, one that is very dear to my heart, makes me determined and keeps me intent and focused in everything I do.

maryamjabara@yahoo.com