© INTERNATIONAL JOURNAL FOR RESEARCH PUBLICATION & SEMINAR
ISSN: 2278-6848 | Volume: 08 Issue: 02 | January - March 2017
Paper is available at www.jrps.in | Email : info@jrps.in

Study of Biogas and electricity production from food waste in SATI Campus, vidisha, M.P.

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ISSN : 2278-6848 03
9 772278 684800
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Abstract : Everything, in essence, is about energy. There is no doubt now that energy is fundamental for our development. Energy is vital for the internal and external security of a country and energy issues are at the core of social, environmental and economic security challenges. World is experiencing an economic down turn and in these times, individuals and institutions are more likely to consider options for renewable energy or other measures that help the environment. As the demand for the world's fossil fuel increases and with their price increase, interest has rightly begun to be given to the development of renewable energy sources. The search for energy alternatives involving locally available renewable resources is one of the main concerns of governments, scientists and business people worldwide.

In our institute SATI, Vidisha we have 10 hostels, staff quarters and college canteen and all having their own individual mess, where daily a large amount of kitchen waste is obtained which can be utilized for better purposes. Biogas production requires Anaerobic digestion. Study is to Create an Organic Processing Facility to create biogas and electricity which will be more cost effective, eco-friendly, cut down on landfill waste, generate a high-quality renewable fuel, and reduce carbon dioxide & methane emissions. Overall by creating a biogas reactors on campus in the backyard of our hostels will be beneficial. Kitchen food waste is collected from different hostels Mess, staff quarters and college canteen as feedstock for our reactor which works as anaerobic digester system to produce biogas energy. The anaerobic digestion of kitchen waste produces biogas, a valuable energy resource Anaerobic digestion is a microbial process for production of biogas, which consist of Primarily methane (CH4) & carbon dioxide (CO2).