

DIFFERENT PARAMETER ANALYSIS IN BIOGASIFICATION AND GASIFICATION TECHNOLOGY

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Abstract

Renewable Energy is provided to the ever increase in the demand for energy and water sources these days. Simultaneous depletion of the same has created an urgent need to make people aware of various renewable energy technologies in the power applications. To start, with alternative sources of energy development is gaining popularity with the modern trend taking in to consideration environment and global rise in the temperature Biomass has higher percentage of moisture .This reduces the efficiency of power generation. The key issue is to develop the condition to in the biomass to minimize the moisture presence and increasing the efficiency of the generation under gasification .The effect of feed concentration is most important in the evaluation of the efficiency Gasification method is adopted here Gasification is sub-stoichiometric combustion; it involves a thermo-chemical conversion process involving high temperature oxidation and reduction operations of biomass with air/oxidant under sub-stoichiometric conditions.

The main point we are considering here is what the main raw materials used, their study of gas effluent, moisture effect, study of tar concentration is and how the impact has it on the society with its clean energy concept. This clearly states that land which is been used for the biomass need not be the one used to harvest crops.

Keywords : Biomass feed, Calorific value, Desiccators, Gasifier, Gas effluent Gaschromograph, Moisture Tar, Temperature