

Abstact

Gasification of biomass fuel in fixed-bed gas generator is the study of the optimum condition of gas production from the process of biomass gasification. The process gas on fixed-bed type Downdraft gasifier step of the paper start with. Study on the system of the various parts of Gasifier then study the process gas gasification of biomass fuel in the process gas. Data collection and reporting the variables to consider is the temperature of the process gasification and air flow rate. In the experiment, biomass fuel is fed into the top to burn biomass fuel to a hot gas and flows through the column out below. The reaction gasification occurs in the temperature range of 650-900 C

Key words : Syngas / Gasifier / Gasification