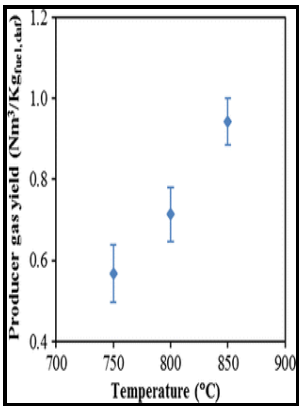
Behaviour of fuel-bound nitrogen in gasification and in high-temperature NH_3 removal processes.

- - Method for the purification of gasification gas



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Enhancement of N2 Formation from the Nitrogen in Carbon and Coal by Calcium

Though CO 2 is an odorless, colorless, plant friendly gas, it is the most significant long-lived greenhouse gas, increasing in concentration since the industrial revolution.

Technologies for converting biomass to useful energy: combustion, gasification, pyrolysis, torrefaction and fermentation

A low heating rate and factors that increase the extent of secondary reactions of gases and char during pyrolysis also increase the conversion of HCN to NH3. A picture of the gasification unit is shown in Figure 2. In the present study, six types of sawdust were gasified in a pilot-scale air-blown circulating fluidized bed gasifier to produce low-calorific-value gases.

NOx Emission

From simulation, the effects of changing fuel type can be seen on output power and efficiency of the engine while sustaining normal operating constraints such as speed and operating temperature, which is typically turbine rotor inlet temperature TRIT into the turbine just after the combustor.

Gasification of phycoremediation algal biomass :: BioResources

It was found that the formation of NH3 was mostly dependent on the freeboard temperature of the gasifier, and on the iron, calcium, ash and volatile matter content of fuel.

Removal of ammonia from producer gas in biomass gasification: integration of gasification optimisation and hot catalytic gas cleaning

With a small amount of spray water, the efficiency of more than 80% in removing N-species was achieved by the mop fan cleaning unit. Enhanced modeling and integrated simulation of gasification and purification gas units targeted to clean power production.

Relation between functional forms of coal nitrogen and formation of nitrogen oxide (NOx) precursors during rapid pyrolysis

The assumption of neglecting the biological catalyst essentially treats the bioreactor as a chemical reactor based on two reactions. However, serious condensation and the growing pressure drop across the filter can be annoying problems.

A review on the fuel gas cleaning technologies in gasification process

Major biomass gasification demonstration projects 18 Table 2-2.

Biomass gasification in a circulating fluidized bed

All dimensions are given in mm, outer diameter and wall thickness are used to specify tubing and pipe sizes. Effect of air ratio on the percentages of carbon and hydrogen that remain in methane in the product gas.

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