
AN OVERVIEW ON CATALYSTS FOR BIOMASS GASIFICATION

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ABSTRACT

Biomass gasification may be a viable alternative to burning fossil fuels directly. Biomass, a CO-neutral renewable fuel source, may help meet demand for heat, power, and 2 synthesis gas. Nevertheless, inefficiencies in the technique make biomass gasification commercially unviable at the moment. Because the resulting gas contains condensable organic molecules including methane, it is inappropriate for some uses. The economic feasibility of biomass gasification will be improved if condensable organic molecules and methane can be removed using a low-cost method. This article includes a comprehensive overview of the three major categories of catalysts that have been tested for the removal of these hydrocarbons. Dolomite, alkali metals, as well as nickel are the three types of catalysts.

KEYWORDS: *Biomass Gasification, Tar, Syngas, Catalysts, Reforming, Dolomite, Alkali Metals and Nickel.*

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