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# Development of a Small Downdraft Biomass Gasifier

A potential technology for developing countries as a  
source of decentralized power supply

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Biomass gasification has been receiving increasing interest seeing that a potential renewable power source for the last few decades. These results were found in EES software to obtain the lower calorific worth of syngas (4424-5007 kJ/m<sup>3</sup>) and cold gas performance (62.4%) of the gasifier, that have been found close to the calculated ideals.<sup>5-69</sup>. This attempt involved developing, developing and testing a small downdraft biomass gasifier JRB-1 (6-7 kW) at Durham University, UK. The primary constituents of syngas created include nitrogen (50-56%), carbon monoxide (19-22%), hydrogen (12-19%), skin tightening and (10-12%) and a small amount of methane (1-2%). The gasifier was built of stainless steel metal & tested for timber chips and pellets. Once again the thermal efficiency was calculated as 90.1-92.4%. Becoming comparatively easy to build, downdraft gasifiers like JRB-1 will tend to be the most likely technology for developing countries as a way to obtain decentralized power supply and for advancement in agricultural sector.



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