

Studi eksperimental cogasifikasi tandan kosong dan tempurung kelapa sawit menggunakan downdraft gasifier

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Abstrak

It has been known that gasification process with a high energy conversion may produce a low flue gas pollution Cogasification is a new research method according to reach gas quality through mixing process of two type of solid fuel. The purpose of this study to find effect of ratio Empty Fruit Bunch (EPB) and Palm Oil Shell (POS) to producer gas composition and Low Calorific Value (LCM). Experimental study has been conducted using a down-draft gasifier which has feeding capacity of 6 kg/h and injected primary air flow with constant rate of 15.7 (pm. Moisture content of EFB and POS are 42.65 % and 8.6%, respectively. Increasing of EF B weight of 50%, 60% and 70% against POS has shown a decreasing of combustible matter, such as CO, CH₂ and H₂; and also decreasing of LCV.