Mini Coal Gasifier for Fulfilling Small-Scale Industries Energy Consumption in Indonesia

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Abstract : Mini coal gasifier (GasMin) is a small reactor that could convert coal into combustible gas or producer gas which is designed to fulfill energy needs of small-scale industries. The producer gas can be utilized for both external and internal combustion. The design of coal gasifier is suitable for community require because it is easy to handle, affordable and environmentally friendly. The feasibility study shows that the substitution of 12 kg LPG or specially 50 kg LPG into GasMin of 20 kg coal capacity per hour is very attractive. The estimation price of 20 kg coal per hour capacity GasMin is 40 million rupiahs. In the year 2016, the implementation of GasMin conducted at alumunium industry and batik industry at Yogyakarta, Indonesia.

Keywords: biomass, coal, energy, gasification

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