

5th World Bioenergy Congress

April 15-16, 2019 | Tokyo, Japan

Feasibility study of power generation from rice husk in Iran

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The use of renewable energy for electricity generation is developing in Iran. In this paper using rice husk is suggested as a source for electricity generation. The area under rice cultivation is 5.4*109 m2 in Iran. It is predicted that the amount of rice husk which is produced as by-product in these lands is about 4.6*108 kg per a year. The heating value of rice husk is about 13.24 MJ/kg and therefore electricity energy which can be produced potentially is about 58 MW continuously

per year if thermal efficiency is assumed as 30%. In this paper, the methods of husk utilization for power generation like hydrogen gas production from husk are investigated. For reducing husk transport and storage cost, it is compressed and converted as pellet due to its low density. This paper deals with economical and technical factors affecting power generation from rice husk.

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