

The best Strategies for Applying Rice Husk Based on the Goals of Sustainable Agricultural Development

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Abstract Rice husk is a major waste in the mill industry of husking rice, which is produce in very high volume and in the past, has not specifically applied and had many environmental degradation affects. Due to physical and chemical importance of rice husk, use of this peripheral product can have many economic and environmental impacts based on sustainable development goals. The purpose of this research is to investigate and identify the most appropriate strategies for the application of rice husk, in order to achieve the goals of rice cultivation stability in Guilan province. Using Multi-criteria Decision making (AHP) and using of expert and specialist advice are the most important uses of rice husk in industries, energy production, animal feed, soil remediation, mulching and disintegration through burning considering the indicators of sustainable development (economic, social and environmental) were analyzed. The results show that among the studied indices, the respondents chose environmental health more than other indicators to the choice of the most appropriate application of rice husk. In terms of economic indexes, respondents ed use of rice husk in industries as the first priority. In terms of environmental index considered preference for using rice husk in soil improvement. Finally, in terms of social indicators, it reapplied in the related industries. According to three indicators, use of rice husk in industrial sector and energy production were as priority options by experts. **Key Words: Sustainable Development, Energy, Rice Husk, Analytical Hierarchy Process (AHP)**

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