



Bagasse a source of Renewable Energy with Various Applications at Sustainable Developing Strategy in Khoozestan province

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Nowadays, there are few people who may disagree the advantages of renewable energy. Remaining stem of cane-sugar (bagasse) is sugar companies residues but by developing technology and using systems which produce steam and electricity concurrently (cogeneration). bagasse changes to a valuable fuel. In this way we can protect environment and also it has a lot of economical and social profits in addition to using bagasse as fuel, it has other uses like MDF, paper, yeast and ethanol production. Countries such as Brazil, India, Mexico and Cuba and Pakistan have long-term programs and specified strategies in producing heat and electricity by bagasse. This source of energy meets about 7% of these countries needs of electricity. It is while only 15% of this potential has been identified. Bagasse and sugarcane industry have the potential to play an important role in the issue of unemployment and electricity shortage in Khuzestan province. Unfortunately a large amount of bagasse produced in Haft-tappe sugar factory, is disposed of as waste which the disposal process costs about 1 million dollars. Recently, some amounts of bagasse are changed into alcohol, paper, MDF, but it seems that producing electricity from bagasse has been not considered by local principles. By estimating the amounts of sugarcane that will be produced in future and analyzing the potential capacity for producing energy from bagasse in Khosestan province a good pattern for the application of sugarcane industries' by-products could be designed and the most economical usage of bagasse can be defined.

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