

Concept of Renewable Energy in Agriculture: Applications of Wind Power in Irrigation Systems

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ABSTRACT

The present paper is a study which proposes a new integrate system of irrigation using clean renewable wind energy in the form of wind mills able to irrigate medium and large surfaces of agriculture lands using independent energy source produced by wind force and also able to deliver electric power to the National Energy System. In the present context, when Romanian agriculture is almost totally dependent on the meteorological conditions, this proposal represents an opportunity to rehabilitate the agriculture sector and the rural development and to improve significantly the agriculture production with direct benefic results on the entire national economy and the Gross Internal Product of Romania.