Environmental Engineering and Management Journal

February 2016, Vol.15, No. 2, 413-420
http://omicron.ch.tuiasi.ro/EEMJ/

"Gheorghe Asachi" Technical University of Iasi, Romania

Salix viminalis vs. *Fagus sylvatica* - FIGHT FOR RENEWABLE ENERGY FROM WOODY BIOMASS IN ROMANIA

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Abstract

The paper presents a general description of the need to use wooden biomass resulted from Osier willow and beech. This wooden biomass represents a renewable energy source and some new directions in scientific research field could be opened. The paper mainly describes a parallel between the energy resulted from these two types of biomass, namely from *Salix viminalis* L. and *Fagus sylvatica* L. species, in order to obtain the best solution between them. Growth crop of this new specie of *Osier salix* can become a business in the developing countries as Romania. In the extended way there are mentioned some characteristic of these two kind of plants that grows in Romania which direct influence the energetic power. Finally, based on the differences between the two types of species and woody biomass, the best solution is found in favor of energetic willow.

Key words: calorific value, ecology, *Fagus sylvatica*, renewable energy, *Salix viminalis*, woody biomass

Received: June, 2012; Revised final: January, 2013; Accepted: February, 2013

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