



SUSTAINABLE COMBINED UTILIZATION OF RENEWABLE FOREST RESOURCES AND COAL IN ROMANIA

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Abstract

As answer to European Community politics, in Romania the researches for waste reworking and ecological treatment are developing. The researches are focusing on wood wastes for its recovery in energy purposes. The purpose is the enlargement of superior coal utilization area obtained from Jiu Valley coal field, for increasing the efficiency of heating installations for domestic consumption, concordantly to European and Romanian pollutions regulations.

Combined utilization of the fuel composed from wood biomass and Jiu Valley hard coal is in concordance with Kyoto Protocol regulations, regarding the CO₂ emissions reduction. For establishing the processing technology – eco-briquetting – first the set up of operation parameters for obtaining market competitive ecologic fuels is necessary. The trend of briquettes production, by mixing fuel waste with coal, imposes the determination of physical-chemical characteristics of each compound. In this way, through pre-treatment a minimum environment impact of the combustion is ensured.

Used as energy raw material, the biomass is considered to be neutral from CO₂ emission point of view. In this way the energy briquetting will be compatible to environment self cleaning capacity.

Key words: briquetting, CO₂ emission reduction, forest waste, hard coal

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