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RESEARCH REGARDING THE PYROLYSIS OF POULTRY WASTE AS AN ALTERNATIVE FOR ITS USE IN ENERGY PRODUCTION

Prof. Gheorghe Lăzăroiu, PhD

Department of Energy Production and Use
University Politehnica of Bucharest, Romania
Tel.: +40722808709
E-mail: glazaroiu@yahoo.com

Prof. Lucian Mihăescu, PhD

Department of Technical Thermodynamics, Engines, Thermal and Refrigeration
University Politehnica of Bucharest, Romania
Phone: +40214029158
E-mail: lmihaescu@caz.mecen.pub.ro

Prof. Ionel Pișă, PhD

Department of Technical Thermodynamics, Engines, Thermal and Refrigeration
University Politehnica of Bucharest, Romania
Tel.: +40214029158
E-mail: ionel.pisa@upb.ro

Eng. Senior Researcher Viorel Berbece

Department of Technical Thermodynamics, Engines, Thermal and Refrigeration
University Politehnica of Bucharest, Romania
Tel.: +40214029158
E-mail: vberbece@gmail.com

Prof. Gabriel Paul Negreanu, PhD

Department of Technical Thermodynamics, Engines, Thermal and Refrigeration
University Politehnica of Bucharest, Romania
Tel.: +40214029158
E-mail: gabriel.negreanu@upb.ro

***Abstract:** In the actual ecological conception, the poultry waste can be stored at carefully chosen distances so that the bad odors do not disturb human communities or commercial societies. From these storing facilities, the farmers can use the manure as fertilizer, especially for vegetables.*

Through surface water, but also by phreatic water from the soil, the pollution can be significant. In the paper the qualities of the chicken manure, in the form of elemental analysis and energy characteristics are presented. On the basis of these data, the possibility of its energy use emerges, either by pyrolysis or by direct burning.

From the point of view of combustion, the main impediments are the very high moisture and the low heat value. The data resulted from the research have application in taking the decision regarding the ecological possibility of combustion of the poultry wastedeposits, including a positive energy effect.

***Keywords:** Chicken waste, Two stage pyrolysis, Energy balance.*

***JEL Codes:** Q2, Q4, Q5*

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