Waste management

ENERGY ASPECTS OF AGRICULTURAL WASTE MANAGEMENT

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Abstract. Among all renewable sources biomass has by far the biggest potential for further development. Biomass is an energy carrier that can be offered in solid, liquid and gaseous form. It can be processed for receiving different kinds of energy: heat, electricity and biofuels. The necessary raw material for energy production should be provided by agriculture and forestry using all kinds of by-products such as wood residues (from perennial plantations), straw and hay, and manure for biogas production, including municipal waste. The agricultural waste is a result of the farmers' activities. Therefore, the energetic use of agricultural waste must be embedded within the agricultural policy developed and promoted by the government and the agricultural organisations. This will allow the reduction of solid agricultural waste, the better land use and will improve the ecological state of the environment. The waste from crop production could be used for briquetting or composting, while the animal manure is a source for biogas production with a possibility of composting the dry residues. Composted materials are a good opportunity for organic farming.

Keywords: biomass, agricultural residues, renewable sources of energy, waste management.

AIMS AND BACKGROUND

The rapid increase of world population in the recent years accompanied by the intensification of human activities brought to serious ecological problems such as the pollution of soil, water and air, forest destruction, etc. In future these negative impacts might cause global climatic changes (greenhouse effect) and might be a menace for the existence of the human race. Immediate measures to avoid the negative influence of human activities are necessary.

Many industrial processes result in a large amount of waste. Agriculture is one of the oldest human practices but as a source of waste it does not make any exception from other industrial activities. In the near future the management of the agricultural waste will play an important role in the conservation of the natural resources in all countries of the Balkan region.

The aim of this paper is to discuss the sources of agricultural wastes in Bulgaria and the way of its utilisation. The possibility of its processing for energy production is specially emphasised.

^{*} For correspondence.

Food Fertilizer And Agricultural Residues Proceedings Of The 1977 Cornell Agricultural Waste Management Conference

R. Bhamidimarri

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Food, Fertilizer, and Agricultural Residues Raymond C. Loehr,1977 Agricultural Residues, Bibliography 1975-81 and Quantitative Survey Food and Agriculture Organization of the United Nations, 1982-01-01 Bibliografie van de literatuur over het hergebruik van afvalstoffen uit de landbouw de levensmiddelenindustrie en de bosbouw in verschillende State-of-the-art Waste Heat Utilization for Agriculture and Aquaculture, 1978 A state of the art delen van de wereld assessment of research demonstration and commercial projects that involve the use of power plant condenser cooling water for agricultural and aquacultural purposes was conducted Information was obtained from published literature site visits and communications with knowledgeable individuals Thermal effluent uses were discussed for controlled environment greenhouses biological recycling of nutrients from livestock manures soil heating and irrigation environmental control for livestock housing grain drying food processing as well as the culture of numerous aquatic organisms A large number of research and feasibility studies have been conducted but few commercial enterprises are utilizing thermal effluent Interfacing problems environmental and legal restrictions along with insufficient technology have not allowed widespread commercial application Specific research needs were discussed **Utilization of Municipal Wastewater and Sludge for** Land Reclamation and Biomass Production .1982 **Use of Reclaimed Water and Sludge in Food Crop Production** Committee on the Use of Treated Municipal Wastewater Effluents and Sludge in the Production of Crops for Human Consumption, Commission on Geosciences, Environment and Resources, Division on Earth and Life Studies, National Research Council, 1996-03-11 This book reviews the practice of reclaiming treated municipal wastewater for agricultural irrigation and using sewage sludge as a soil amendment and fertilizer in the United States It describes and evaluates treatment technologies and practices effects on soils crop production and ground water public health concerns from pathogens and toxic chemicals existing regulations and guidelines and some of the economic liability and institutional issues The recommendations and findings are aimed at authorities at the federal state and local levels public utilities and the food Alternative Waste Treatment Systems R. Bhamidimarri, 2003-10-04 Proceedings of the International processing industry Conference held at Massey University Palmerston North New Zealand 26 27 May 1988 Report of the Northern Regional Research Center United States. Agricultural Research Service. Northern Regional Research Center, 1976 Biogas Una Bibliografia Mundial Centro interamericano de documentación e información agrícola (San José, Costa Rica).,IICA-Costa Rica,Organización latinoamericana de energía (Quito, Equateur)., International Bibliography of Corn Bibliography of Small Wastewater Flows, **Economic Feasibility of Methane Generation** ,1985 **Bulletin** ,1978 and Production of Duckweed for Feed on Dairy Farms in Southeast United States Donald C. Huffman, 1981 Bibliography of Agriculture with Subject Index ,1977-10 Soils and Fertilizers ,1979 **Subsurface Fluid Flow**

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