

ECONOMY OF NATURAL RESOURCES MANAGEMENT AND ENVIRONMENT PROTECTION

WASTES – A THREAT TO THE ECOLOGY OR THE WEALTH OF THE COUNTRY: WORLD PRACTICES AND THE PROSPECTS OF BIOGAS PRODUCTION FOR UKRAINE

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The accumulation of a large number of industrial and household wastes in the environment that caused an increase in the involvement of natural resources in the production and a low level of their life confronts society the issue of waste prevention, recycling and minimizing harmful effects on the environment. Especially the problem of waste utilization is typical for developing countries, including Ukraine.

The problems of deleting, sorting and recycling are urgent in Ukraine. Most localities and municipalities of the country suffer from piles of trash and municipal solid waste (MSW) because all existing dumps are filled completely.

In the world of the post-industrial economy of the XXI century, there are many ways to earn on debris, for example, biogas technology. Biogas plants are established in rural areas on farms, poultry farms, meat processing plants to ensure power and thermal energy from waste and energy independence for reaching.

Biogas plants are economically advantageous because the companies save on heat and electricity, spending money only for equipment and service, but they all paying,

because of the absence of biogas plants, they need to look for a way and place of disposing of waste.

Currently, more than 65 countries use biogas plants, producing biogas as an alternative energy source, but the best example of using biogas technology is Sweden. The Swedes have developed an efficient and profitable technology that by the means of waste produced electricity. After final processing, only 1% of useless substances are sent to landfill.

Ukraine is a promising region for biogas production because the country has many unused agricultural lands where can grow energy crops for biogas, including silage corn. From 1 ton of silage corn can be produced about 300 m³ of gas.

Nowadays, when the energy cost is getting high, and the number of organic waste from agriculture and from human activity is growing, biogas is an important product – as an alternative energy. The most important function of a biogas plant is ensuring energy security for small towns. Biogas plant – is a key instrument, which will provide a complete decentralized supply of electricity for all residents. In today's crisis of Ukraine, this factor is of particular strength.