

“Green technologies” to strengthen the state’s energy stability

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In modern it became obvious to the world that problems related to energy stability, become an important factor in economic, social and political life each state green technologies such as renewable energy, efficient using resources and modern systems energy saving, represent a powerful a tool for amplification energy stability. One of the important tools related to ensuring energy stability and nature conservation can be the development and wide implementation of biogas plants.

The introduction of biogas plants in Ukraine has enormous potential and can lead to numerous social, economic and environmental benefits. This will contribute to energy stability and diversity of energy sources. Ukraine is still dependent on imported energy resources such as natural gas, and biogas production from organic waste can reduce this dependence, contributing to greater energy stability, the country can gain access to various sources of energy, which reduces its vulnerability to fluctuations in energy prices on the world market. The use of biogas helps to reduce greenhouse gas emissions. Methane, produced during the biological decomposition of organic waste, is the main component of biogas, and its use balances the impact on the climate. Biogas plants enable efficient waste management in cities. Large volumes of organic waste can lead to problems with disposal and landfills. Biogas plants enable efficient processing of this waste, reducing pressure on landfills and ensuring sustainable use of resources. The introduction of biogas plants contributes to the development of rural regions. They can become a source of additional income for agricultural holdings through the use of agricultural waste and animal manure for biogas production. It also promotes job creation and innovation. The development, implementation and maintenance of biogas plants can contribute to the creation of jobs and stimulate innovative development in the field of energy and ecology. The introduction of biogas plants meets the goals of sustainable development, as it contributes to the reduction of CO₂ emissions, the improvement of waste disposal and the development of renewable energy.

In general, the widespread implementation of biogas plants in Ukraine can improve energy security, increase energy stability, reduce greenhouse gas emissions, create jobs in agriculture and other areas, reduce energy import costs, and promote sustainable development and the development of renewable energy.

References

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