POSSIBILITIES FOR BIOGAS PRODUCTION DEVELOPMENT ON THE LLU TRAINING AND RESEARCH FARM "VECAUCE"

Jolanta Kļaviņa, Voldemārs Strīķis

Latvia University of Agriculture jolantaklavina@gmail.com

The training and research farm "Vecauce" is a multi-branch farm. Scientific researches both in agriculture and in problem industries are introduced and tested on the farm. One of them is the power industry. The construction of a modern cowshed for 500 milk cows was started in 2008. Next to it, a biogas facility with an electrical capacity of 260 kW was also constructed. It was the first biogas facility in Latvia in which manure and the green mass of crops were used as a substrate. More than 50 biogas facilities are presently operating in the country. The training and research farm "Vecauce" has planned to double or triple the output capacity of its biogas facility. A calculation, performed by academician of the Latvian Academy of Sciences A.Kalninš, based on a methodology employed in Germany - KTBL (Kuratorium für Technik und Bauwesen in der Landwirtschaft) - was used. It is possible to reach an electrical capacity of 510 kW or 710 kW by intensifying agricultural production, restructuring it, or cooperating with farmers of Auce municipality.

Key words: biogas, biogas production.

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