

# MODELING, FORECASTING OF SYSTEMS IN THE PROCESS OF BIOGAS PRODUCTION

Introduction. Mathematical modeling is an important stage of scientific research, because it allows you to imagine the physics of the process occurring in a particular object. The most accurate and complete model helps to simplify the process of analyzing the dynamic characteristics of a physical phenomenon or process occurring in the object of study, subject to verification for adequacy to the real process [1]. The expediency of mathematical modeling is due to the high cost of conducting experiments on a real biogas production unit (bioreactor). , subject to the need for its design and manufacture, and significant time costs, due to the high inertia of a number of processes, on the example of obtaining biogas from various agricultural wastes by anaerobic fermentation in the bioreactor, due to the large overall dimensions of the installation.

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