

## THERMAL BALANCE OF A BIOGAS PLANT WITH A CRUSHING DEVICE

IMOMOV SHAVKAT ZHAKHONOVICH<sup>1</sup>, KAYUMOV TULANBOY KHOLMIRZAEVICH<sup>2</sup>,  
TATYANA PETROVNA BOLDYREVA<sup>3</sup> & SAFAROV HUSNIDDIN SIROJIDDIN O'G'LI<sup>4</sup>

<sup>1,4</sup>*Bukhara Institute of Natural Resources Management, Bukhara city, Gazli highway, 32, Uzbekistan,*

<sup>2</sup>*Andijan Institute of Agriculture and Agrotechnologies, No 1 Andijan district, Oliyqah Street, Uzbekistan*

<sup>3</sup>*Associate Professor, Department of Foreign and Russian Languages, Kursk State Agricultural Academy named after I.I.Ivanova*

### ABSTRACT

*This article presents the analysis and calculation of the thermal balance of the technology of biogas production by anaerobic processing in a biogas device from biomass consisting of organic animal waste. The calculated data on the heat-shielding material of the biogas device is also given. Information is given about the energy aspects that should be paid attention to during the operation of small-scale biogas plants.*

**KEYWORDS:** *Biogas, Anaerobic Process, Exothermic Reaction, Heat Flow & Coefficient of Thermal Conductivity*

**Received:** May 03, 2022; **Accepted:** May 23, 2022; **Published:** Jun 10, 2022; **Paper Id.:** JETDEC20221