9th ICEEE – 2018 International Conference on
"Climatic Change and Environmental (Bio) Engineering"
22nd - 24th of November, 2018
Budapest, Hungary

BIOGAS POTENTIAL FROM FISH WASTE AND CATTLE MENURE

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Today, to satiate our growing energy demand, we have to turn our face to the renewable energy sources instead of fossils. This change will be done in every type of consumption, such as industries, agriculture, smaller companies, households, even fisheries. The aim of this project is to optimize biogas production from fish waste and cattle manure. The project is carried out at a fishery centre, Aranyponty Zrt in Sáregres, where the recycling fish waste and produce valuable energy to heat its building of the project place. The project is managed in a specialized biogas laboratory by using Automatic Methane Potential Test System (AMPTS II) with the equipment and the help of NaWaRo Kft. This automated system incudes performing, biochemical potential tests, specific methanogenic activity assay activity and conducting residual gas potential analyses. There are three experiments based on the proportion of fish waste and cattle manure, id est. 1:0, 1:1 and 1:2. During this project a feasible biogas plant will be designed based on the results and analysis.

Keywords: *Biogas, fish waste and cattle manure, anaerobic digestion*

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