

BIOGAS DIGESTION

ABSTRACT

Usually all the biogas digesters are use to produce methane gas and the size of the digesters are commonly bigger in size. Some users whom live in poor conditions which that know the uses and the advantages of using methane gas wanted to have a biogas digester at home and wanted to use the methane gas for replacing the cooking gas and to generate electricity, because they cannot afford to buy cooking gas and pay the monthly electric fee. So, because of that they wanted to have a biogas digester, but according to their affordability, they still cannot have the biogas digester which is usually bigger in size. The only solution for them to solve this problem is to produce a mini biogas digester that has same function with the bigger digester. The project involve the developing and analysis the body shape of the digester to make it be more efficient to produce methane gas and also will concern about the structure strength, durability, ergonomic factor and convenience. The new concept of this digester is also being more focus on the strength of its body. All the specifications must be verified to avoid materials and fund wasting. Overall process to design, develop and fabricate this digester required the skills of designing and fabrication and used all the basics knowledge of Static, Industrial Design and Manufacturing Technology.

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