Profitable small-scale bio gas unit for household consumption

Biogas is produced when bacteria digest organic matter or the biomass in the absence of oxygen. This process is called anaerobic digestion. It occurs naturally anywhere from the within the digestive system to the depth of effluent ponds and can be reproduced artificially in engineered containers called digesters. This video shows how the bio gas production is done profitably for house hold consumption. The objective of this video is to communicate the progress and the success of the bio gas production to the farmers and the people in Belihuloya area. I went physically to gather information about this household bio gas unit and observed how it is going on. Mrs. Gamage, a former government officer who is handling this unit gave me the information about this unit. She has gained the knowledge and the technology to build up this unit through the science and technology center. The government also has given the support to develop this unit. She is getting the advantage of this unit nearly ten years. This unit is running only from the cow dung and slurry of the cattle shed which they were maintaining in a side of their yard. According to Mrs. Gamage her small-scale bio gas unit produce enough energy to fulfill daily requirement in four members family. As she told, this is a good substitute for LP gas. According to my observations I think if we can develop this system further, we can get more bio gas easily to fulfill the gas requirement in four, five houses.

Key words- anaerobic, bio gas unit, cow dung, energy, household consumption, organic matter, profitable, science and technology center, slurry, small-scale, substitute

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