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Biogas kotoran ternak pdf

Beni Hermawan, Leilat al-Kodriya and Andraini Puspita in 2007, the use of organic waste as a biogas source to overcome the domestic energy crisis. Bandar Lampung, University of Science and Dissertation, Lampung. Chengdu Biogas Research Institute, 1989, China Biogas Technology, Chengdu, China.e-USU Retaliation (C) 2004, North Sumatra FAO University, 1978; China: Azola propagation and small-scale biogas technology, Rome, Italy. Hadiwi Salt, Sowed, 1983, waste disposal and utilization. Idayu Foundation, Jakarta. Paimin, Ferry B, 1995, (a); Tools and Equipment Biogas, Penebal Swadaya, Jakarta. Paimin, Ferry B, 1995, (b); Biogas Production Tools, Self-Help Spreader, Jakarta. President of the Republic of Indonesia in 2006. Presidential Regulations on National Energy Policy No. 5/2006, Jakarta Sihong Bing, D.T.H., 2000; Waste Management Technology Activities / Livestock Projects, Bogal Agricultural University Institute of Environmental Research, Widdalt, L and Cph, Sudalto F.X., 1997; Making Biogas, Kanisus and Jakarta. www.google.com, 2009; Biogas, Energy Grid, Global Warming, Majari Magazine. (July 23, 2009) www.google.com Study biogas in 2008, mujigto-aji.blogspot.com (July 23, 2009) www.goole.com, 2008; use of biogas as an alternative energy, Wikipedia, Free Encyclopedia. (July 26, 2009) Page 2 Effendi S. Latorna is a lecturer at The Islamic University of Malain (Unisma). This methane gas can be used as cooking fuel because it can be flowed through a small pipe into a gas reservoir in the kitchen. We need to make a little change so that the methane gas can be used on the stove. : Farm Animal Effendi S Waitat luna FECES is an environmental issue during this time. In fact, behind it can produce methane gas, which can lead to greenhouse gas emissions and global warming. Therefore, livestock fertilizers need to be properly treated and used, and in addition to reducing the occurrence of contamination, it can also be useful for alternative fuels. Methane gas produced by sewage can be used instead of very expensive and limited fuel oil as an alternative energy fuel, which is home-scale renewable energy with proper management. After processing biogas, livestock waste can be processed into organic fertilizers. This can increase the added value of livestock fertilizers. In Madura, precisely in the village of Pampajun in Bangkaran, there are livestock businesses such as cows and goats, which are intensively and traditionally developed. In fact, almost all houses have cows. However, the use of livestock fertilizers is still not optimal, and on the contrary, excrement only causes environmental problems. One of them is the Mandiri Energi Village (DME) program in the form of self-production of alternative energy.Through the production of biogas from livestock excrement. This community service program begins with the socialization of the community on the urgency and benefits of waste management of livestock waste. This socialization invited the head of Pampajun village, community leaders and young people in the village. Its aim is to build a community spirit and equalize the views of independent village energy programs, so that village executives are formed with a planning capacity to maintain biogas installations, so that Pampajun village can be an example of an energy independent village for other villages. We are trained in the installation of biogas reactors starting with maintenance. The active role of the community in this activity is required to achieve the program's objectives, namely program continuity and community independence in the achievement of alternative energy from livestock fertilizers. At the time, the training was attended by village youth, village chiefs and community leaders. The infrastructure of biogas reactors is very simple, material sourcing is easily available and trainees are easier to practice directly. The biogas installation itself is built on a home scale, allowing each house to build the installation of each biogas. In addition, construction of the biogas reactor was carried out near the home of the Pang Pajung community leader. The basic materials used are polyethylene plastics, pipes, and gas stoves. Since the position of the biogas furnace is near the cow pen, the process of transferring livestock fertilizer to the biogas reactor is simple. How can channel through a small pipe? Then, after filling the digestive organs with dough (a mixture of livestock fertilizer and water), the inside of the biogas reticator is generated a chemical process that can producing methane gas. This methane gas can be guided through a small pipe to a gas reservoir in the kitchen, so it can be used as cooking fuel. The connection of the pipe to the gas stove requires a slight change so that methane gas can be used for the stove, taking into account that the methane gas has lower air pressure compared to LPG gas. Early biogas experiments succeeded in cooking water and other processed foods. Several village executives, youths and village chiefs practiced at home with their respective contributions. In addition, there is a high youth spirit where activities are carried out by cadet reefs, empowering and rebirth, and inspiring the surrounding communities. Coral cadets and community leaders work with each other to achieve sustainability. After being built at some point in the village of Pampajun, Cadre will have to perform maintenance on the installation of biogas. This simple installation still has challenges, especially the maintenance process where biogas leaksNot the largest. This happens because the material used is very simple but can be maximized with permanent mounting replacement to minimize leaks. All these challenges can be overcome during the spirit and ownership of energy independent village programs for the people of Pampajun High Village. An indicator of the program's success was the construction of three biogas installations, forming three cadres in the Pampajun community ready to inspire other communities. It is also used as a production material for biogas, and by becoming an organic fertilizer, the environment is clean because it can minimize the landscape of piles of livestock fertilizer. The basic material of biogas does not have to be from livestock fertilizers, but biogas can also be produced from agricultural waste. Effendi S. Wiratna is a lecturer at The Islamic University of Malan (Unisma). Livestock News - It turns out that cow manure can be converted into one of the alternative energy, namely biogas. Sari Agri - cow manure is used only by the community as fertilizer for plants. However, it turns out that cow dung can also be converted into one of the alternative energy, namely biogas. It is manufactured from an anaerobic fermentation process so that it can be used instead of LPG fuel. He succeeded in using the garden to turn cow dung into biogas, as Hussen Yassin, who lives in tanjung karan secarbella subdisculture in Tanjung Karan Secarbella Subdiscrum, Mataram, did. Previously, Fuzen was confused with his cow's zu, which accumulated and caused a pungent smell. So far, he can use it as a fertilizer to fertilize garden plants. I've been a cow for decades and I was confused to see that the abundance and smell of the cows was also very exciting. Hussen explained. After discovering innovation through training obtained from local governments, Hussen eventually found a solution by fermenting from organic ingredients, including fertilizers in cows he farmed. We've already been trained for two years to start the process of making this biogas, and now that lpg gas is no longer needed, it's very helpful, he explained. The backyard of the house, not far from his cattle sop, was built by a tank that was sealed off as a place to produce biogas. At the top of the tank stick PVC pipe size 1/2 inch, as the first process of making biogas, it is connected to an indicator board with a 160 cm high body with a diameter of 160 cm, which is used as a place to stir cow manure with water. After the cow dung becomes liquid, we close the entrance and open so that the cow dung flows directly into the digestive tank and does not cause odors, he explained. To ensure that the tank can always produce biogas, Hussen regularly fills at least 1-2 tablespoons of cow sand daily, mixed with water. ToBiogas after the tank is filled with liquid cow manure cannot be used immediately, but it must wait 2-3 weeks until it is found in indicators indicating more than a few 20, he continued. In addition to using cattle fertilizers as biogas, the rest of the biogas process can be used as organic fertilizers. The plan is to distribute husen free of charge to nearby neighbors to replace their fuel in the future. It's enough to change fuel rather than buy LPG gas. After that, I plan to share it with my neighbors, he concluded. (Sari Agri/Yonkki) (Sari Agri/Yonkki)

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