

# Methane into Markets Utilizing Animal Waste

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The number of animal stock in Bali is about 2.5 million heads with the major number is pig and cattle. In addition, Bali cattle breed is one of the few existing cattle indigenous breeds in Indonesia. From the total number of existing farms, most of them are located in the villages in small or backyard-type farms. The farms mostly have 2-5 heads spread in each farmer land therefore it is difficult to handle animal wastes wisely in order to minimize environmental problems. At feedlots, solid animal manure is mostly dried and directly used, sometimes processed after collected in typically lagoon, and sold as fertilizer. Recent efforts have been made to strongly encourage capture and burning of methane generated from the oxidation lagoons. A hundred of family size biogas plants of fixed dome type have been constructed for cooking utilization and electricity generation. However, methane recovery requires a high capital investment and it was identified still not user friendly in design with lack of technical experiences. Fuel prices in Indonesia are subsidized and no incentives for renewable energy industry lead to a significant factor delaying the growth of competitive and sustainable bioenergy alternatives. However, the public opinion of biogas technology from animal wastes is found generally positive.



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