

Implementation of Management Program for Biogas and Organic Fertilizer Utilization Based on Livestock Waste for Community Empowerment in Gelang Village

Imam Abrori S.E., M.M.
(Advisor 1)

Astrid Oktavia Wulandari
Digital Business Study Program
Department of Business

ABSTRACT

Dusun Lanasan, Gelang Village, Jember Regency, is a lagging area with abundant livestock waste potential reaching ± 800 kg/day that remains unmanaged and has become a source of environmental pollution, while the community depends on seasonal work as plantation laborers. This program aims to implement the management of biogas and organic fertilizer utilization based on livestock waste through a participatory approach to achieve community empowerment. The implementation method uses the POAC approach (Planning, Organizing, Actuating, Controlling) which actively involves the community in planning through program evaluation. The implementation results show that since September 2023, biogas has been able to fully replace the use of LPG with savings of Rp. 80,000–Rp. 160,000 per household per month, and the community is able to independently produce and utilize organic fertilizer. This program has successfully transformed livestock waste into alternative household energy and economically valuable products, resulting in increased energy self-sufficiency, improved environmental quality, and the creation of new economic opportunities.

Keywords: *program management, communal biogas, organic fertilizer, community empowerment, livestock waste*