

## **PERSEPSI PETERNAK SAPI TERHADAP KARAKTERISTIK INOVASI BIOGAS BERBASIS LIMBAH TERNAK SAPI DI KECAMATAN MUSUK KABUPATEN BOYOLALI**

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### **INTISARI**

Persepsi peternak sapi terhadap inovasi biogas berbasis limbah ternak sapi merupakan cara pandang peternak mengenai inovasi biogas yang dapat menggambarkan kesiapan peternak dalam mengadopsi inovasi biogas. Penelitian ini bertujuan untuk menganalisis persepsi peternak sapi terhadap karakteristik inovasi biogas berbasis limbah ternak sapi dan menganalisis pengaruh karakteristik peternak terhadap persepsi peternak pada karakteristik inovasi biogas berbasis limbah ternak sapi di Kecamatan Musuk Kabupaten Boyolali. Metode penelitian yang digunakan adalah survey. Metode pengambilan sampel dengan *non probability sampling* yaitu *purposive sampling*. Teknik pengumpulan data menggunakan metode wawancara dengan alat bantu kuesioner. Sampel penelitian adalah peternak sapi di tiga desa di Kecamatan Musuk, Kabupaten Boyolali yang memiliki populasi ternak terbanyak serta telah mengikuti pelatihan atau penyuluhan tentang biogas sebanyak 46 responden. Metode analisis yang digunakan dalam penelitian ini adalah metode analisis deskriptif dan analisis regresi linear berganda. Hasil penelitian menunjukkan bahwa persepsi peternak sapi di Kecamatan Musuk mengenai inovasi biogas berada dalam kategori baik. Faktor yang mempengaruhi persepsi peternak sapi terhadap inovasi biogas yaitu tingkat pendidikan dan intensitas penyuluhan ( $p < 0,05$ ). Variabel umur, jumlah kepemilikan sapi, pengalaman beternak, tingkat pendapatan, dan akses media massa tidak berpengaruh signifikan terhadap persepsi peternak ( $p > 0,05$ ). Variabel umur, tingkat pendidikan, jumlah ternak, pengalaman beternak, tingkat pendapatan, intensitas penyuluhan, dan akses media massa secara bersama-sama akan berpengaruh terhadap persepsi peternak sebesar 40,7%.

(Kata Kunci: Biogas, Karakteristik Peternak, Limbah Ternak Sapi, Persepsi)

**PERCEPTIONS OF CATTLE FARMERS TOWARDS  
CHARACTERISTICS OF CATTLE WASTE-BASED BIOGAS  
INNOVATIONS IN MUSUK DISTRICT, BOYOLALI REGENCY**

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**ABSTRACT**

The perception of cattle farmers towards characteristics of cattle waste-based biogas innovations is the way farmers view biogas innovations that can describe the readiness of farmers to adopt biogas innovations. This study aims to analyse cattle farmers' perceptions of the characteristics of cattle waste-based biogas innovations and analyse the influence of farmer characteristics on farmers' perceptions of cattle waste-based biogas innovations in Musuk District, Boyolali Regency. The research method used was survey. The sampling method with non probability sampling is purposive sampling. Data collection techniques using the interview method with questionnaire tools. The research sample was cattle farmers in three villages in Musuk District, Boyolali Regency who had the largest livestock population and had attended training or counselling on biogas as many as 46 respondents. The analytical methods used in this study were descriptive analysis and multiple linear regression analysis. The results showed that the perception of cattle farmers in Musuk District regarding biogas innovation was in the good category. Factors affecting cattle farmers' perceptions of biogas innovation are education level and extension intensity ( $p < 0.05$ ). The variables of age, number of cattle ownership, farming experience, income level, and mass media access did not have a significant effect on farmers' perceptions ( $p > 0.05$ ). The variables of age, education level, number of cattle, farming experience, income level, extension intensity, and mass media access together will affect the perception of farmers by 40.7%.

(Keywords: Biogas, Cattle Waste, Farmer Characteristics, Perception)