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中国规模化养殖场畜禽粪便资源沼气生产潜力评价

Potential assessment on biogas production by using livestock manure of large-scale farm in China

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英文关键词: [biogas](#) [manure](#) [farms](#) [resource assessment](#) [large-scale](#)

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中文摘要:

为探明中国规模化养殖场畜禽粪便排放量、沼气生产潜力及其分布情况,该文利用2009年统计数据,确定了中国畜禽粪便年排放量估算方法和各种估算参数,估算中国主要畜禽年粪尿排放量、产沼气潜力和温室气体减排潜力。结果表明,2009年中国规模化养殖畜禽粪便排放总量约8.37亿t,年沼气生产潜力约为472.1亿m³,减排潜力为1.9亿t CO₂。生猪、奶牛和肉牛养殖是中国畜禽粪便的主要来源,粪便排放主要在东北、华北和西北等北方地区。这可为中国规模化养殖场治理污染提供决策依据。

英文摘要:

In order to determine the discharge of livestock poultry, the productive potentials of biogas and the distribution of scale farms in China, this paper used the statistical data of 2009 to establish the estimation of annually discharge of livestock poultry and parameters of estimation in China, and estimated main annually discharge of livestock poultry, the productive potentials of biogas and the reduction potentials of greenhouse gases. The result showed that the total manure emission of the large-scale farm was 837 million tons in 2009, annual biogas production potential is about 47.21 billion m³ and the reduction potential is 190 million tons CO₂. Pigs, cows and beef cattle farming are the main manure sources in China, and manure emission mainly distribute in north-east area, north area and north-west area. The results can provide basis for decision making to control pollution of the large-scale farm.

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