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中国沼气发展的现状、驱动及制约因素分析

Current status, incentives and constraints for future development of biogas industry in China

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中文摘要:

能源需求的急剧增加以及生态环境的日益恶化促使国家大力发展沼气事业。该文在总结中国沼气发展利用现状、技术以及相关政策的基础上,深入探讨了中国沼气发展的驱动及制约因素,并为未来中国沼气的健康持续发展提出了政策建议。研究表明:过去10 a中国沼气投资和建设快速发展、沼气综合和可持续发展利用模式不断创新、国家相关支持政策为中国沼气持续发展发挥了重要作用;在未来较长一段时期,中国沼气行业既面临能源需求增加、规模化养殖发展以及环境治理压力加大等因素的驱动,也面临适宜农户减少、融资渠道单一以及市场不健全、法规不完善等因素的制约。根据研究结果,该文提出了通过健全后续服务体系,完善相关政策法规等,促进中国沼气健康发展的政策建议。

英文摘要:

The growing demand for oil imports and the pressure to tackle environmental degradation have given rise to mounting attentions on biogas development in China. A comprehensive overview of biogas development in China, technology improvement, and related government policies were provided. The potential driving forces and constraints for its future development were also systematically analyzed. Based on the results of this study, policy suggestions were recommended for the sustainable development of China's biogas industry. The results showed that, with the development in the last 60 years, China's biogas had increased rapidly, several models in sustainable use of biogas had emerged, and the government support had largely promoted biogas development in China. Although the concerns for energy shortage and environmental protection would still drive the expansion of China's biogas in the future, the decline of backyard farming system, the shortage of household capacity in raising capital for biogas investment, and the incompleteness of biogas support policies would constrain the future development of biogas in China. Based on the results of this analysis, policy suggestions for sustainable development of China's biogas in the future were provided.

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