

农作物秸秆气化利用技术与商业化经营案例分析

Case analysis of crop straw gasification use technology and commercialization operation

投稿时间: 2004-12-2 最后修改时间: 2005-3-9

稿件编号: 20051028

中文关键词: 秸秆气化技术; 商业化经营; 案例分析

英文关键词: straw gasification technology; commercialization operation; case analysis

基金项目: 中国科学院知识创新工程重要方向项目课题“中国不同地区粮食生产的资源利用效益”(KZCX3-SW-333-02)

作者	单位
陈百明	中国科学院地理科学与资源研究所, 北京 100101
张正峰	中国人民大学土地管理系, 北京 100872
陈安宁	中国科学院地理科学与资源研究所, 北京 100101

摘要点击次数: 142

全文下载次数: 31

中文摘要:

为了探讨农作物秸秆气化技术的商业化发展前景, 该文分析了农作物秸秆气化集中供气系统的技术性能, 认为空气氧化气化和干馏热解气化法这两项技术由于工艺路线不同, 造成气化集中供气系统组成与技术性能也有差异, 但均已较为成熟和实用, 具备较高的安全性与可靠性, 有待解决与完善的技术问题主要是需要进一步减少燃气中的焦油和杂质含量。在此基础上, 评估了农作物秸秆气化集中供气系统的商业化经营能力, 应用成本—效益法分别计算了亏损案例和盈利案例, 认为随着农作物秸秆气化集中供气系统在大范围内的进一步推广, 今后必须增强商业化经营能力, 逐步走向市场化道路。

英文摘要:

In order to discuss the commercialization operation outlook of crop straw gasification technology, this paper analyses technical capability of crop straw gasification for central gas supply, and considers they are different for the components and capability of the central gas supply system, due to the differences of technological way of both the oxygenation gasification technology and the pyrogenation gasification technology, but these two kinds of technology are mature and practical, and both relatively safe and stable. At the same time, there are still a series of problems associated with these technologies that need to be solved or further improved, such as problem of further reducing tar and impurity content of the fuel gas. In succession, it is estimated for commercialization operational capability of the central gas supply system, loss case and profitable case are calculated by using cost-benefit method. The conclusions are that the gas station must be managed commercially and marketability must be enhanced stage by stage with the large-scale development of the gas supply system for the future.

[查看全文](#)

[关闭](#)

[下载PDF阅读器](#)

您是第606957位访问者

主办单位: 中国农业工程学会 单位地址: 北京朝阳区麦子店街41号

服务热线: 010-65929451 传真: 010-65929451 邮编: 100026 Email: tcsae@tcsae.org

本系统由北京勤云科技发展有限公司设计