生物质气化的分布式冷热电联供系统研究 Distributed CCHP Based on Biomass Gasification

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摘 要： 阐述了分布式冷热电联供系统的概念及特点，介绍了生物质气化系统的原理，并探讨了生物质气化冷热电联供系统的几种应用形式及各自的优缺点，分析了我国发展生物质气化冷热电联供系统的优势及面临的问题。最后指出生物质气化冷热电联供系统可实现能量的梯级利用，具有良好的社会、经济和环境效益，为高效综合利用我国生物质资源的重要途径之一。 Definition and characteristics of distributed combined cooling, heating and power system (CCHP) were briefly summarized. The principle of biomass gasification system was mainly introduced, and several application modes of CCHP based on biomass gasification (BGCCHP) were discussed. At last, the advantages and difficulties of developing BGCCHP in China were analyzed. BGCCHP could realize the cascade utilization of energy coming along with social, economic and environmental benefits and it is an efficient and comprehensive way for biomass resource exploitation and application.

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