

生物质高值化气化耦合燃煤机组发电技术 简介

合肥德博生物能源科技有限公司开发的生物质气化耦合燃煤机组发电技术包括：1) 生物质循环流化床气化耦合燃煤机组发电技术，生物质在循环流化床气化炉中实现高效气化，气化产生的燃气送入燃煤机组进行耦合发电；2) 生物质气化多联产耦合燃煤机组发电技术，生物质在炭气联产炉内转化为高品质的生物炭和燃气，燃气送入燃煤机组耦合发电，生物炭用于生产活性炭、炭基肥、机制炭等炭产品；3) 生物质双循环流化床气化合成天然气耦合燃煤机组发电技术，生物质在双循环流化床气化炉内气化、燃烧产生高热值热解气和高温烟气，高热值热解气用于合成天然气，高温烟气送入燃煤机组耦合发电。用户可根据电力、炭产品和天然气的市场情况进行灵活选择，实现生物质高值化利用。

High Value Utilization of Biomass Gasification Coupled Coal-Fired Unit Power Generation Technology

Brief Introduction

The biomass gasification coupled coal-fired power generation technology developed by Hefei Debo Bioenergy Science&Technology Co.,Ltd includes:

- 1) Biomass circulating fluidized bed gasification coupled with coal-fired generating unit power generation technology, biomass is efficiently gasified in circulating fluidized bed gasifier, gas generated by gasification be sent into the coal-fired unit for coupled power generation.
- 2) Biomass Gasification Multi-Production coupled with coal-fired generating unit power generation technology, biomass is converted into high-quality biochar and biogas in the gasifier, Biogas is sent to the coal-fired unit to generate electricity, and biochar is used to produce activated carbon, Carbon Base Fertilizer, Machine-Made Charcoal and other carbon products.
- 3) Biomass Double Circulating Fluidized Bed Gasification Synthesis Natural Gas coupled with coal-fired generating unit power generation



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technology, Biomass gasification in double circulating fluidized bed gasifier, Biomass gasification and combustion in the double circulating fluidized bed gasifier to generate high calorific value pyrolysis gas and high temperature flue gas. The high calorific value pyrolysis gas is used to synthesize natural gas, and the high temperature flue gas is sent to the coal-fired unit for coupled power generation. End-User can make flexible choices based on the market conditions of electricity, carbon products and natural gas to achieve high-value utilization of biomass.