



Beech Island Mill



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Contract Structure

- A Win-Win agreement for both parties:
- Three Rivers gets:
 - Guaranteed outlet with Take or pay
 - Minimum take of 1440 DT/day at full output
- K-C in return gets:
 - A cap reducing exposure to very high gas costs
 - Project to replace 80% of baseline fuel use in boiler





Direct Use Application

- Site has two steam boilers
 - Natural-gas fired with fuel oil backup
 - Only one boiler needed for 10-11 months per year; two boilers required for fuel curtailment or heavy winter steam load
 - Boiler House operates 364+ days per year
 - After startup only one boiler will be capable of using fuel oil





Direct Use Application

- Project Details

- One boiler modified to support use of landfill gas and natural gas
 - Existing burner used
 - Controls modified to provide co-firing without outages
 - Boiler permitted for alternate fuel (LFG)
- Second steam boiler is not modified in this project





Boiler No. 1 Picture



Beech Island



Benefits to Kimberly Clark

Kimberly-Clark has a long-standing environmental sustainability initiative

- Energy reduction
- Water use reduction
- Landfill elimination
- Environmental compliance





Sustainability Efforts

- At the Beech Island mill
 - Site has reduced energy consumption per ton of production by over 20% in the last ten years
 - Site is implementing a long loop recycling system to reduce water consumption from the Savannah River by more than 60%
 - Site is 90% landfill free
 - Site is starting up landfill gas system in 2008

