 Kimberly-Clark

***Developing a Sustainable Advantage
for Kimberly-Clark Millicent Mill
Reducing Carbon Footprint and Costs***

Scott Whicker
*Manager Operations
Kimberly-Clark Australia*

*Pulp and Paper Industry WHS Conference 2011
Safety, Sustainability & the Future
16 & 17 November 2011*

Traditional Coal Fired Power



 Kimberly-Clark

Millicent Mill mid-1960's



 Kimberly-Clark

Millicent Mill 2010



 Kimberly-Clark

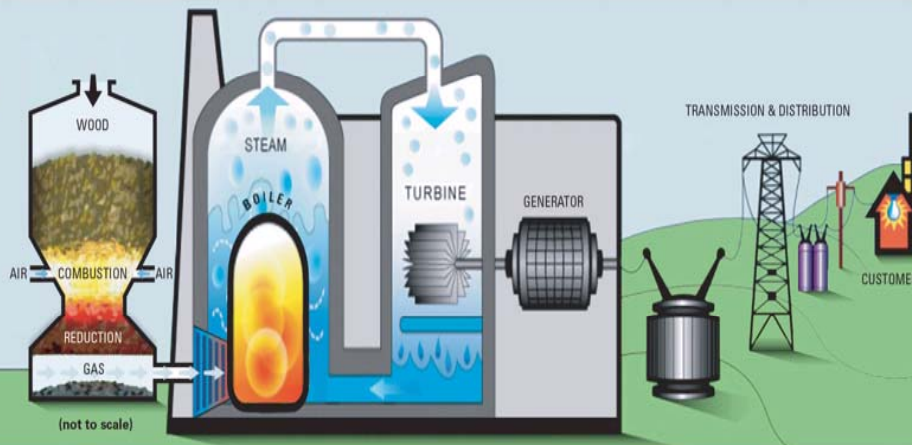
External Pressures on Mill Operations



 Kimberly-Clark

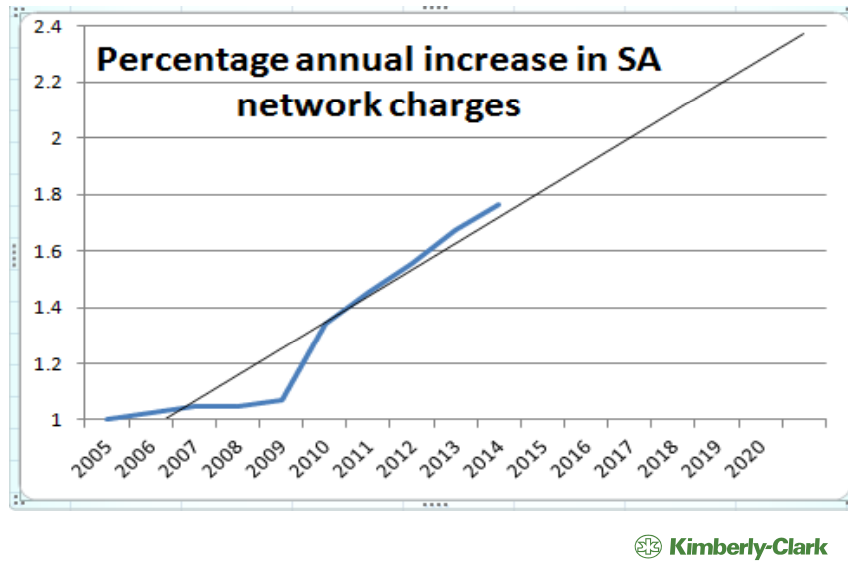
Biomass gasification

BIOMASS GASIFICATION

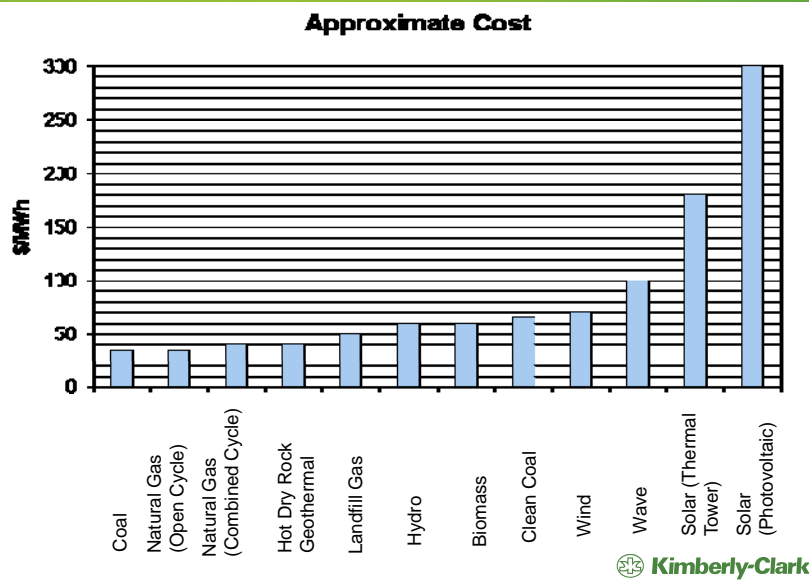


 Kimberly-Clark

Transport energy costs increasing at 10% pa



Generation Alternatives

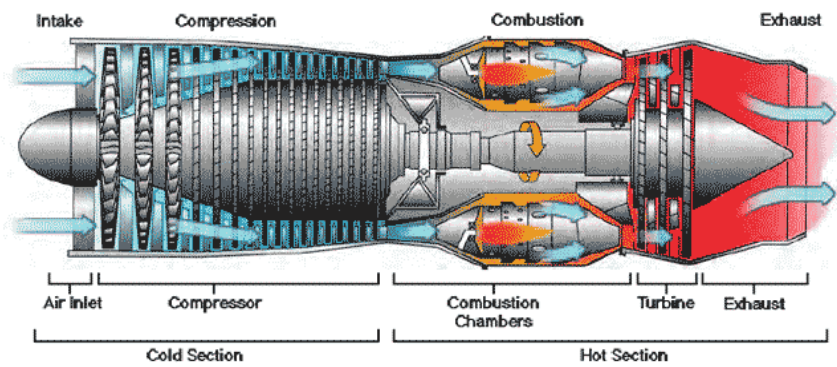


Millicent Mill 2013



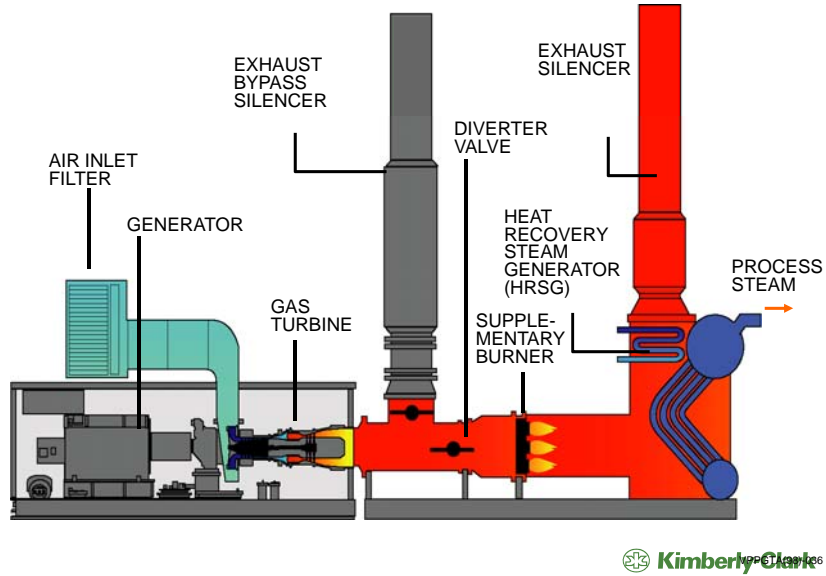
 Kimberly-Clark

Gas Turbine



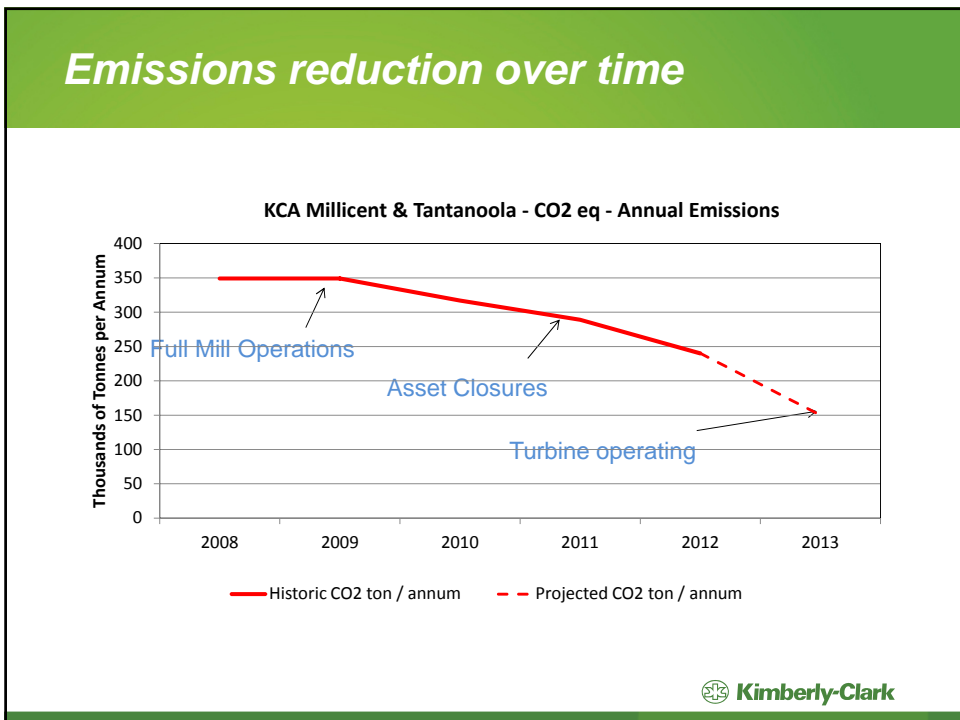
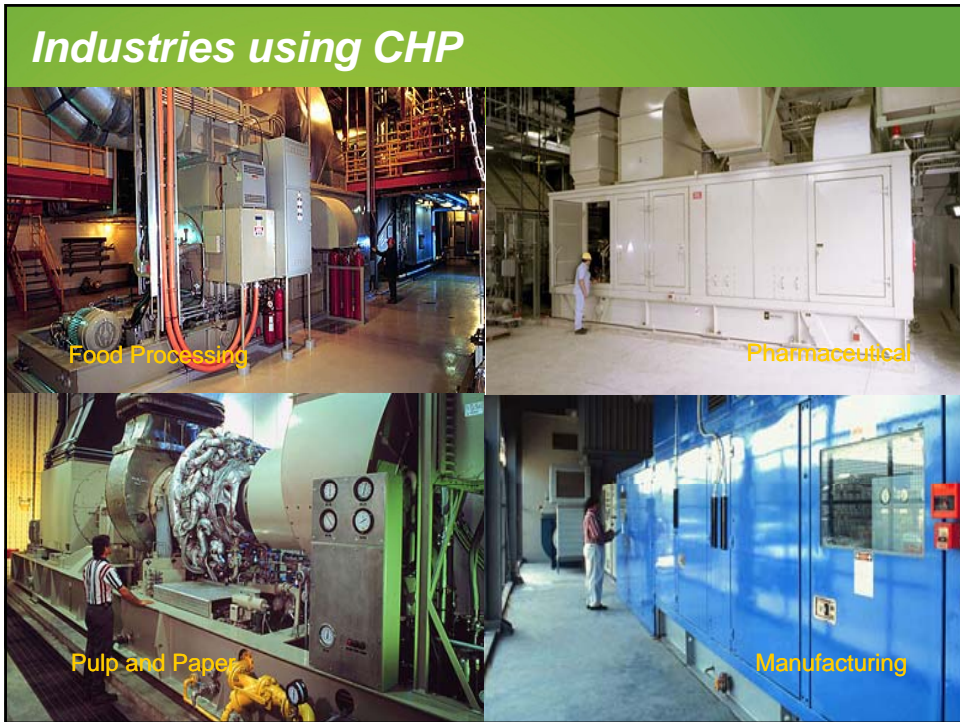
 Kimberly-Clark

Combined Heat and Power System with Supplemental Firing



Titan 130 Cogeneration Application





Financial benefits

- ◆ Gas price increases at a lower rate than electricity
- ◆ Increased thermal efficiency
- ◆ Closure of now oversized boiler
- ◆ Reduces exposure to carbon tax
- ◆ Minimising payments for renewable energy
- ◆ Savings in network charges
- ◆ Exporting power when the spot price is high

 Kimberly-Clark

All systems are go!

- ◆ 2013 completion
- ◆ Carbon footprint to reduce by over 90,000 tpa
- ◆ Cost competitive in Australian manufacturing
- ◆ Sustainability credentials, the competitive edge



 Kimberly-Clark

