

Interstate Paper – 78% Reduction of Fossil Fuels Since 2003

biomass • fiber recovery • fossil fuels • steam • linerboard • virgin pulp •



Tire Derived Fuel (TDF)



Algas, Water Reuse and Reduction



Mill Steam Generated from Black Liquor

Challenge:

In order to serve the customer, support the community and protect natural resources, Interstate Paper needed to find a way to develop environmentally friendly energy, maximize efficiencies and still produce a competitive product.

Solution:

Interstate Paper has been improving their sustainable efforts for years. They've consistently reached past the "good enough" benchmark by constantly re-evaluating and adjusting their environmental focus and initiatives. These ongoing endeavors consist of maximizing current infrastructure and resources, investing in continuous improvements, and committing to future modifications.

Here's a quick snapshot of successful initiatives toward safeguarding the environment:

Investments:

- Late 2003, Install Bubbling Fluidized Bed (BFB) Boiler
 - Provides 62% reduction in mill wide fossil fuel consumption
 - Supplies 45% of steam for mill

- Utilizes a variety of non fossil fuels
 - Bark, wood waste
 - Green chips (pine plantation thinning)
 - Tire derived fuel (shredded discarded tires)
 - Sludge derived from recycling boxes / old corrugated containers (OCC)
- Uses less than 10% fossil fuel for start-up, shutdown and stabilization

- 2007, Upgrade BFB
 - Improves air system, fuel feed system and ash handling
 - Provides improved boiler efficiency
 - Reduces fossil fuel an additional 39% compared to the previous best in 2006

- 2009, Upgrade Recovery Boiler Burner Management System
 - Improves boiler reliability
 - Provides 55% of the mill steam from black liquor (a tree by-product of producing pulp)
 - Uses less than 2% fossil fuel for start-up, shutdown and stabilization
 - Provides steam for the mill and recovers chemicals

- 2010, Super Heater Replacement Project
 - Improves reliability
 - Initiate project in 2009 with 2010 installation

Results:

- Fossil fuel, 78% reduction since 2003
- Water, 14% reduction (9 ½ million gallons of water a day from 11 million gallons a day)
- Electricity, 40% from biomass
- Sulfur dioxide (a major contributor to acid rain), 60% reduction since 2003
- Steam reduction
- Particulates emission (tiny solid particles), 38% reduction due to:
 - Better BFB air pollution controls
 - Ability to run the mill without the Power Boiler

Being a privately owned paper mill provides the opportunity to focus on investments for long-term growth and to aggressively pursue environmental sustainability improvements. This is truly a biomass driven paper mill since 2003, with less than 14% fossil fuel used to make steam.

Interstate Resources . . . We Can.



Interstate Paper is a business unit of Interstate Resources.
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