

PHILCORR LLC

Corrugated Sheet Feeder

PHILCORR LLC

- Energy Savings
 - Natural Gas
 - Electric

Natural Gas

Nymex

Delivery from well head

Basis

Gas Commodity

Transportation Cost

Cost to deliver in NJ

Transportation Cost

- 1995 – 2003 PhilCorr was a under the rate schedule for Large Volume Guaranteed supply.
- Cost: \$3.08 / Deca Therm
- Annual Usage averaged 58,000DT

Transportation Cost

- 2003 PhilCorr installed an above ground 20,000 gallon fuel tank
- Converted our boiler to Dual Fuel capabilities
- Total cost: \$60,000

Transportation Cost

- Changed our delivery Rate Schedule to an Interruptible Rate
- New Rate cost: \$1.47 / DT
- Annual savings of \$93,380

Steam & Starch

- 2005 Installed Kohlers Glue Machine
- Replaced original Isowa glue machine
- Starch Consumption around 3.2#'s / MSF
- Starch Cons. with Kohler 2.70#'s / MSF

Steam & Starch

- 1995 – 2007 PhilCorr operated a low pressure return steam system.
 - Extremely inefficient
 - Poor heat transfer
 - Operating approximately 65-70 % efficient.
 - Could not control / reduce steam in Double Backer section

Steam & Starch

- November 2007 installed Baviera's high pressure return system with low pressure operation capabilities.
- Once installed PhilCorr realized a 24% reduction in Natural Gas usage
- Reduced starch consumption to 2.0#'s / MSF

Steam & Starch

- 2008 – 2010 Average cost for delivered NG \$8.55 / DT
 - Annual Savings of \$119,000
- Reduction in starch of over 1MM#'s / year

Total Savings

- NG Rate change
 - Annual Savings \$93,380
- Steam Reduction NG Savings
 - Annual Savings \$ 119,000
- Starch Savings
 - 1 Million Pounds annually

PhilCorr Goes Solar



PhilCorr Solar

- Commissioned December 29, 2010
- System size : 1.140 kW
- 3,584 fixed roof panels
- Panels at 5 degree tilt facing S / SW
- Approx 77,000 SF
- First year annual output : 1,455,641 kWh
- Will Produce approx 1455 SREC's annually

PhilCorr Solar Available Incentives

- Federal DOE offered a 30% cash grant
- 100% bonus depreciation in year 1
- Solar Renewable Energy Credits

PhilCorr Solar System Benefits

- Generates 45 % of our current electric demand
- Saves \$200,000 annually in electric cost
- Avoids an estimated 2.6 Million lbs of annual CO2 emissions.
- Equivalent to powering 143 average American homes annually.
- Low to No maintenance