

Colby Biomass Facility Fact Sheet for Payback Analysis

A starting point...

- Year of analysis 2008
- Total project cost \$11M
- Efficiency Maine grant of \$750,000
- Average consumption of No. 6 fuel oil 1,167,656 gallons without biomass plant
- No. 6 fuel oil contains 150,000 BTUs/gallon
- 143,000 gallons of No. 6 fuel oil required at peak demand with biomass plant
- 22,000 tons of biomass
- Biomass contains 4,250 BTUs/pound
- Fuel oil price \$2.07/gallon
- Biomass price \$30/ton

Q: What is the simple fuel saving payback period?

Q: What happens to the payback period when oil is \$3.00/gallon?

Q: What happens to the payback period when biomass costs \$40/ton?