

# CHIPTEC®

## WOOD ENERGY SYSTEMS

### CHIPTEC WOOD ENERGY SYSTEMS HELPS MIDDLEBURY COLLEGE BECOME CARBON NEUTRAL



Middlebury College located in the foot hills of Vermont, has pledged to be carbon neutral by the year 2016. To achieve their goal, the college looked to install a biomass fired boiler system to replace approximately one million gallons of #6 fuel oil per year and reduce their carbon foot print. To accomplish their goals, Middlebury College turned to CHIPTEC Wood Energy Systems of Williston Vermont. CHIPTEC Wood Energy Systems provided Middlebury College with one of CHIPTEC's patented, state of the art biomass gasification system coupled to a steam boiler to produce high pressure steam which will be used for heating, cooling and electrical production. The CHIPTEC system will allow Middlebury College to achieve their goal of being carbon neutral by 2016.

#### Project Facts

- Plant went online in January 2009
- Steam Production: 21,000-30,000 per hour @ 240 psig
- 50% reduction in in #6 fuel oil annually (1,000,000 gallons plus)
- Annual #6 fuel savings \$700,000 per year
- CO2 reduction: 12,500 plus metric tons per year. 40% reduction in carbon foot print
- Annual wood chip consumption: 20,000 tons per year
- Electricity produced: 15-20% of the campuses need (3-5 million kilowatt-hours of electric per year)
- CO emissions: 63 ppm average @12%CO2 (via EPA test method 10)
- Particulate emissions: 0.017 lbs/MMBTU, average (via EPA test method 5)



For more information on how CHIPTEC Wood Energy Systems can fix and reduce your long term operating cost, contact us at 802-658-0956 or visit us on the web at [www.chiptec.com](http://www.chiptec.com)



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