

Reduction of Manufacturing Process Waste and Lowering Natural Gas Usage Costs



"NYSERDA is to be commended for its help with my company's waste utilization. A study was conducted and the implemented results enabled Southern Tier Forest Products to reduce overhead and to stay competitive, as well as utilize waste.

I would recommend that any business that has a waste problem to look at the various programs NYSERDA has to offer to help reduce costs to your company."

- Jud Beattie
President, Southern Tier Forest Products, Inc.



Waste-Wood Boiler Installation

Town of Salamanca, Cattaraugus County

The New York State Energy Research and Development Authority (NYSERDA) worked with Southern Tier Forest Products, Inc., located in Salamanca, Cattaraugus County, to assist the company in reducing manufacturing waste and natural gas consumption. Southern Tier Forest Products, Inc. is a manufacturer of packaged firewood products.

The project determined the most economical means to minimize the facility's processing waste and natural gas consumption and focused on the installation of a Waste-Wood Boiler unit. By installing the unit and using hot water to help heat kilns, a cost savings of \$43,750 and a 15% production increase was seen in the first year. The following specific results were attributed to the unit installation:

- Reduction of natural gas consumption
Energy Reduction: 1,712,890,000 Btus;
Cost Savings: \$16,800
- Reduction of manufacturing and production waste
Avoided Landfill Disposal Cost: \$26,950;
Burned 890 tons of wood waste

The Waste-Wood Boiler unit was installed with assistance from NYSERDA's Industrial Process and Productivity Improvement Program. NYSERDA provided project cost sharing of \$24,973.68, which was 50% of the total project cost. Southern Tier Forest Products Inc. contributed the other 50% of the total cost, with no recoupment required. Taking into account only the annual energy savings of approximately \$16,800, Southern Tier Forest Products Inc. will recover its investment in less than 2 years. Through this project, the company was able to improve plant energy efficiency and reduce its manufacturing process waste.



For more information about these services, contact NYSERDA toll free 1-866-NYSEERDA, locally (518) 862-1090, or e-mail: info@nyserda.org

