

By the Numbers

300 kwh or 5% of daily electricity needs

2 Hurst Boilers

70 tons wood/day

400-ton silo storage

1000-ton outdoor storage area

850 employees in Massachusetts

50% wood fuel sourced within 10 miles

# Seaman Paper Company

Seaman Paper Company relocated from Chicago to Otter River, MA in 1946 and has since grown into an international specialty paper company, producing tissue paper for wholesale and retail sale. Seaman Paper Co. has three locations in Massachusetts, as well as facilities in China, Hong Kong, Vietnam, India, Germany, and Italy. Pulp is sourced from Canada and from recycled paper sources.

In 2006 and 2009 Seaman Paper Company installed two wood fueled boilers to provide heat to the facility and connected the boilers to a steam turbine to produce electricity. This combined heat and power (CHP) system meets all of the facility's heating demand and 5% of daily electricity demand. The advantage of a CHP system is that it produces additional energy (electricity) from a heating load that is already being produced.

The company sources the wood fuel for the boilers locally. About 50% of the fuel is made from whole tree wood chips from nearby forestry operations. The other half is derived from used pallet wood. The mixture results in an inexpensive fuel that burns cleanly and efficiently.

The two Hurst boilers utilize about 70 tons of wood each day, producing roughly 300 kilowatt hours of electricity. From the control room, the heat and power output of the system can be automatically controlled. A baghouse emissions control system ensures that emissions leaving the plant meet air quality standards. There are two back-up oil boilers to supplement heat during the shutdown and startup of the wood-fueled boilers.

With its wood-fueled CHP system, Seaman Paper Co. is heating renewably and reinforcing connections to the local forest economy.

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