

# Zero Waste to Landfill

*finding cost effective alternatives*

deacs.ncdenr.gov

Manufacturers and organizations in North Carolina are working to reduce waste to help their financial bottom line and protect the environment. The leaders in these efforts have achieved the impressive status of sending zero waste to landfills, returning valuable resources to the economy, reducing their regulatory liability, and increasing their resilience against outside factors.

## These facilities have declared Zero Waste to Landfill in NC!

AW North Carolina, Inc.\* (Durham)  
Bridgestone Americas Tire Operations, LLC\* (Wilson)  
Burt's Bees\* (Durham)  
Daimler Trucks North America LLC\* (Cleveland)  
Daimler Trucks North America LLC\* (Gastonia)  
Daimler Trucks North America LLC\* (Mt. Holly)  
Glen Raven (All NC sites)  
Greif (Charlotte)  
Highland Industries (Kernersville)  
Honda (Swepsonville)  
Ingersol Rand (Mocksville)  
Jackson Paper (Sylva)  
Keihin Carolina System Technology, LLC\* (Tarboro)  
MillerCoors (Eden)  
Santa Fe Natural Tobacco Company (Oxford)  
Thomas Built Buses Inc.\* (High Point)  
Unifi (All NC sites)  
Unilever (Raeford)

\*denotes a member of the Environmental Stewardship Initiative

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## About

Working to achieve Zero Waste to Landfill (ZWTL) can save money, encourage cleaner production, improve material flows and support sustainability.



## Resources

DENR's Division of Environmental Assistance and Customer Service (DEACS) provides assistance to businesses, industries and government agencies to improve their environmental performance. The range of DEACS services that support ZWTL includes:

- **Waste Reduction Partners:** a program that helps businesses and industries reduce solid waste and also addresses energy and water consumption.  Waste Reduction Partners
- **Recycling Markets Directory:** an online tool for finding markets for recyclable materials. 
- **NC Waste Trader:** N.C.'s electronic marketplace for listing discarded or surplus materials and products. 
- **Environmental Stewardship Initiative:** a DENR recognition and assistance program designed to help its members reduce environmental impacts beyond measures required by any permit or rule. 



N.C. Division of Environmental Assistance and Customer Service

Customer service through no cost technical, compliance and financial assistance

www.ncenvironmentalassistance.org

Toll-Free 1-877-623-6748

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## Bridgestone Americas Plant

The Bridgestone Americas plant in Wilson, N.C. was the first facility in the world to be certified by Underwriter Laboratories for sending zero waste to the landfill.

## Glen Raven

All five manufacturing plants and corporate offices in N.C. have achieved zero waste to landfill status. It's not about recycling more. It's about using less. – Glen Raven (Randy Blackston's presentation April 1, 2014)

## Daimler Trucks North America LLC

Since 2006, the Daimler Cleveland Truck Plant has gone from sending 32 percent of its waste to the landfill to sending none to the landfill today. The company has also consistently increased the recycle rate per unit of production and experienced a 28 percent reduction in variable costs.

## John Deere

John Deere replaced its wooden shipping crates with a returnable, metal crates. This reduced shipping damage on their turf care equipment and helped the company cut back on its wood usage by more than 5 million feet of wood each year. The result was a \$400,000 per year savings in reduced material costs each year.

In the first year after John Deere Turf Care's 2009 announcement of its waste reduction goals, the waste generated at the facility dropped from 46 pounds for every ton produced to 8 pounds for every ton produced. In 2013, the company brought this figure down to 4 pounds for every ton produced.

## Waste Diversion Success Stories

**40** percent less plastic shipped by Glen Raven through changes in the bagging machine and kitchenware used

**35** tons of PP and PE foam diverted from landfill by EMC with implementation of a foam densifier

**9** months to realize a ROI for Thomas Built Buses by replacing wooden crates with returnable metal racks for shipping windsheilds



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