

THE US DEPARTMENT OF AGRICULTURE

HARVESTING NEW WAYS TO ELIMINATE WASTE

The USDA reports seeing an immediate 50% reduction in the use of paper towels in restrooms where high-speed, energy-efficient hand dryers are also being used.

HOW THE USDA PLANS TO ELIMINATE 12 TONS OF PAPER TOWEL WASTE EVERY YEAR

Once every two weeks, janitors at the United States Department of Agriculture (USDA) break open a new pallet of paper towels to fill dispensers in well over 100 bathrooms throughout the USDA complex in Washington DC. That's at least two tons of paper a month – more than 24 tons a year. It's no wonder that waste reduction is the USDA's highest priority when it comes to going green.

More than 7,000 people work at the 2.2-million-square-foot USDA complex in DC – and throughout the sprawling campus, the department's Green Team has found ways of eliminating waste. According to the USDA's Waste Minimization and Recycling Program, "Waste minimization requires the elimination or reduction of the generation of waste at its source, that is, before it can become waste."

As the largest building on the National Mall and "the seat of Department leadership," USDA officials want their headquarters to be "a model facility for others wishing to implement waste reduction and waste minimization programs," according to the agency's Waste Minimization Plan.

In what looks like the famous food pyramid, the USDA's Green Team uses a triangular Solid Waste Management Hierarchy, and Source Reduction and Reuse is at the "most preferred" peak of the pyramid. The "least preferred" method is dumping trash into landfills, because that contaminates groundwater and pollutes the air by producing methane gas.

The USDA also tries to avoid sending its trash out to be burned because incineration pollutes the air with harmful gases such as nitrogen oxides and sulfur dioxide, along with trace amounts of toxic mercury compounds. The USDA took a major step toward eliminating waste by installing two dozen XLERATOR® high-speed, energy-efficient hand dryers in its restrooms, giving people a choice between paper and hand dryers. Over time, the agency plans to install hand dryers in more restrooms throughout the facility.

The USDA reports seeing an immediate 50% reduction in the use of paper towels in restrooms where energy-efficient hand dryers are also being used. This eliminated two tons of paper towel waste in 2011 alone.

The XLERATOR is the only hand dryer in the industry with a dry time of 8 seconds* — tested to guidelines from the Global Hand Dryer PCR published by UL Environment — and it uses 80% percent less energy than conventional hand dryers. It represents a 95% cost savings when compared to paper towels, eliminating their labor, maintenance and waste.



› PROBLEM

More than 24 tons of paper waste annually; a large percentage of it paper towels

› SOLUTION

24 XLERATOR Hand Dryers

› RESULTS

Reduced maintenance and disposal costs, improved restroom cleanliness and hygiene, elimination of 12 tons of paper towel waste annually



A peer reviewed (ISO 14040 standards) Life Cycle Assessment of XLERATOR confirmed it reduces the carbon footprint of hand drying by 50-75%, compared to both traditional hand dryers and 100% recycled paper towels. It is the first hand dryer to be BuildingGreen Approved® and helps facilities qualify for several LEED® v4 Credits and Green Globes to satisfy corporate and government sustainability goals.

The USDA has targeted the biggest contributors to its waste stream and found that high on the list is janitorial services, and the extraordinary costs of supplying restrooms with paper towels; in fact, paper towels cost more than any other restroom supply or product.

The USDA purchases janitorial services through an outside vendor; therefore, officials want to achieve the greatest efficiency possible from this service. By dramatically reducing paper towel waste, janitors are now concentrating on tasks more critical than simply taking out the trash. Janitors are now more focused and efficient because they are hauling away much less paper towel trash.

OVERALL, THE USDA HAS REDUCED TRASH PICKUPS AT THE COMPLEX FROM FIVE TO FOUR PER WEEK

By reducing the total number of "trash pickups," the USDA has:

- **Reduced the amount of diesel fuel being used**
- **Lowered airborne emissions of diesel exhaust**
- **Cut greenhouse gas emissions from trucks traveling to landfills**
- **Reduced the amount of trash going into landfills**
- **SAVED \$30,000 IN DUMPSTER FEES ANNUALLY**

The USDA responded to President Obama's Executive Order 13514, a presidential call for all federal agencies to help create a clean energy economy, to lead by example, increase energy efficiency and reduce waste. The department is well on its way to reducing its environmental footprint and achieving the president's lofty and important goals.

Removing paper towels and rolling out high-speed hand dryers remains a growing part of the agriculture department's overall waste reduction program. Officials plan to continue installing XLERATOR Hand Dryers throughout USDA headquarters as they move ever closer to paper-free restrooms.

*Dry time and energy use testing performed by SGS International on standard XLERATOR Hand Dryer with 0.8" nozzle to 0.25g or less of residual moisture, pursuant to the UL Environment Global Product Category Rules (PCR) for Hand Dryers.

THE USDA HAS DEVELOPED A DETAILED PLAN TO REDUCE WASTE, INCLUDING:

- Annual trash sort to determine the effectiveness of the recycle program
- Installing new recycle containers
- Stopping junk mail
- Implementing a battery and personal electronics recycling program
- Encouraging the use of reusable cold drink and coffee containers
- Educating employees

USDA OFFICIALS SAY THE HIGH-SPEED HAND DRYERS:

- Will ultimately eliminate 12 tons of paper towel waste per year
- Significantly lower the cost of purchasing paper towels
- Reduce paper towel maintenance and disposal costs
- Improve bathroom hygiene



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