



Linens



Uniforms



Restroom



Dust Control

# DEMPSEY

UNIFORM & LINEN SUPPLY

*First impressions start here.™*



## Dempsey's Environmental Impact Statement

Dempsey Uniform & Linen Supply is committed to a sustainable future through environmental stewardship and conservation of the earth's natural resources. Our goals are to reduce the direct and indirect impact of our company by **leadership by example, reuse of textiles** and **conservation of resources**. With these goals, Dempsey has become a leader in both the textile rental industry and our local community in preserving our environment.

### Awards & Certifications



## Reuse of Textiles: Textile Reuse Reduces Solid Waste.

Providing clean, reusable textiles is inherently sustainable, and should be attractive in a world still dominated by disposable goods. Dempsey's textile rental product line reduces solid waste in comparison to disposable alternatives in the following ways:

- Cloth Cleaning Towels.** Paper towels generate 4x more solid waste than cloth towels. (IL 12/91)
- Mops.** Wet Mop: 1 rental mop = 36 disposable mops; Dry Mop: 1 rental mop = 186 disposable mops (TRSA Green Taskforce 2009)
- Patient Gowns.** Paper examination gowns generate almost 4x more solid waste than cloth. (IL 12/91) If one doctor gowns 20 patients per day for 1 year, it generates 1/2 ton of garbage. (TRSA Green Taskforce 2009)
- Mats.** Disposable mats generate 9x more landfill waste than rental mats. 1 rental mat = 10 disposable mats. (TRSA Green Taskforce 2009)
- Wipers.** Paper wipers generate from 4x to 10x more solid waste than cloth shop towels (depending on the soil of the job). (IL 12/91)



The EPA even recommends that restaurants utilize "reusable utensils, dinnerware, napkins and placemats" as a key tactic for Source Reduction. (Decision-maker's Guide to Solid Waste Mgt, Vol. II" University of Wisconsin & EPA, 1995)

## Conservation of Resources: Efficient Laundering Conserves Natural Resources

Commercial laundering conserves vital natural resources, like water and energy, in comparison to self-laundering. Dempsey's laundering processes lead the commercial laundry industry in conservation methods and technology.

### Commercial Laundering Conserves Resources

Using an industrial laundry process is much better for the environment than washing and drying items in smaller loads at home or on an unregulated business site where untreated wastewater is discharged through the local sanitary sewer system.

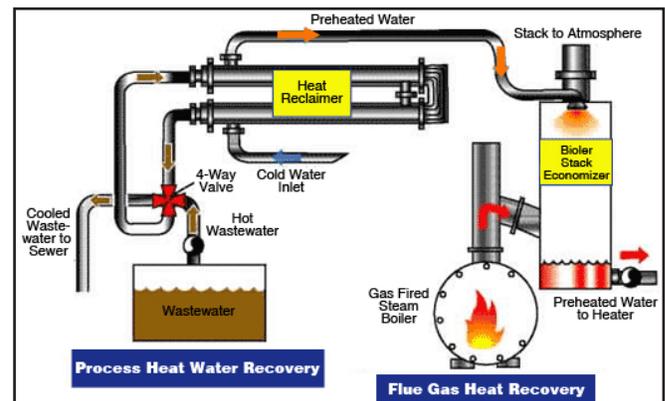
A very specific study looked at the home laundering of uniforms. Home laundering of uniforms uses 2.8x more water and 2x more energy than industrial laundering. (IL 12/91) If 50% of the 22 million uniform wearers in the U.S. had their uniforms laundered commercially (now its about 33%), almost 100 million gallons of water would be saved each week. Over a year, the water savings increase to almost 5 billion gallons.

## Dempsey's Laundering Maximizes Conservation

### Energy Reduction

#### Heat Reclaimer & Boiler Stack Economizer

Dempsey employs a sophisticated wastewater heat recovery system, which captures the heat from the process wastewater to preheat the incoming fresh water using a shell and tube heat reclaimer. This process can effectively preheat that water to within 5°F of the dirty wastewater stream, thereby reducing up to 60% of the water heating energy required. Preheated fresh water then travels through a boiler stack economizer where boiler exhaust further preheats it. The hot gases are normally cooled to within 10 to 15 degrees of the incoming water temperature and amounts to a 10-20% energy recovery of the on-line boiler load. This system allows Dempsey to conserve natural gas that would otherwise be necessary to heat the incoming water.



### Finishing Equipment

The finishing equipment and processes, adopted from successful European operations, uses significantly less natural gas than older systems. In addition, steps were taken to ensure all electric motors are soft-start or variable speed and rated high efficiency, allowing Dempsey to conserve electricity.

### Natural & Efficient Lighting

Dempsey's physical facility incorporates "daylighting"

using large windows and skylights, high efficiency lighting, a reflective white rubber membrane roof, high r-value insulation and computer-controlled heating and cooling equipment, allowing Dempsey to conserve electricity for lighting.

### **Delivery Efficiency. (We deliver "GREEN!")**

Dempsey utilizes Roadnet Territory Planner routing technology for route path optimization. This allows Dempsey to reduce miles driven, which means less fuel consumption and a smaller carbon footprint.

Dempsey also utilizes cutting-edge fleet management and optimization technology to minimize our carbon footprint. This system allows Dempsey to optimize fuel economy by reducing engine idle time, reducing speed, and by optimizing driving techniques such as rapid acceleration.

### **Water Reduction**

#### **Continuous Batch Tunnel Washer (CBT)**

Dempsey's CBT Washers are designed to reduce water consumption by 50% compared to conventional systems through engineering efficiencies and water reuse, allowing Dempsey to conserve over 15 million gallons of water per year.



#### **Water Reuse**

Dempsey reduces water, detergent and energy use by reclaiming light soil wash water and reusing it for the pre-wash of heavily soiled items. We reuse the hot, soapy wash water from very light soil items such as sheets and pillow cases and use it for the pre-wash rinses of heavily soiled items such as kitchen towels. This innovative reuse allows Dempsey to conserve more than 8 million gallons of water per year.

### **Material Reduction**

#### **Hanger Reuse**

In an effort to reduce the dependence on natural steel resources and to preserve space in our landfills, Dempsey has intensified efforts to re-use at least 65% to 70% of garment hangers through its on-site customer reclaim programs. In a partnership with Allied Services, people with disabilities help reclaim used hangers for reuse. As of 2010, this program had diverted 608,000 lbs from landfills and avoided the equivalent carbon dioxide emissions of 168 cars annually.

### **Material Recycling**

Dempsey's production recycling program includes wood, plastic, cardboard, paper and metal. On average this program diverts over 30 tons of material each year from landfills for recycling.

## **Leadership by Example: Dempsey Leads the Way**

### **Clean Green Certification (1st Company in U.S.)**



**CLEAN GREEN**  
TRSA CERTIFIED

In February 2012, the Textile Rental Services Association (TRSA) announced that Dempsey Uniform & Linen Supply is the first company in the United States to achieve certification in the TRSA Clean Green Certification Program. Clean Green Certification

recognizes companies that demonstrate responsible leadership in sustainability and conservation to protect the environment. The program acknowledges a textile service company's continuing commitment to improving efficiencies in water and energy conservation and adoption of best management practices for reusing, reclaiming and recycling resources.

### **Energy-Smart Business Honor Roll**

In February 2011, PPL Electric Utilities entered Dempsey into its E-power® Energy-Smart Business Honor Roll. With this award, PPL recognized Dempsey's recent energy-saving efforts in its production facilities.



"This organization has demonstrated the kind of awareness and commitment that will lead our communities to better energy and environmental practices today and into the future," writes David DeCampli, President, PPL Electric Utilities Corporation.

### **U.S. EPA Sustainability Partnership**



In December 2010, Dempsey Uniform & Linen Supply, Inc. joined the US EPA Sustainability Partnership Program. The Sustainability Partnership (SP) is an EPA Region 3 initiative to facilitate environmental sustainability at major organizations in the Mid-Atlantic

region through a collaborative effort. By sharing expertise within programs such as WaterSense, Energy Star and WasteWise, etc., EPA has proven that working with industry, institutions and governments can produce significant results in the reduction of waste generation,

natural resource usage, and energy consumption. Our collaborative efforts have reduced our environmental footprint and have often resulted in cost savings to the organization as well!

### Green Powerhouse Award™ (Green Business of the Year)



In 2009, Dempsey won the first-ever “Green Powerhouse Award” from the Northeast Pennsylvania Business Journal. Judge Jennifer Porter of Workforce Wayne explained: “These awards

recognize some of the first organizations in our region taking voluntary action toward green sustainability. This sustainability is about changing behaviors, and to do this we need people like those at Dempsey to show the way.”

### Industry Environmental Leadership

PJ Dempsey (President) served as Chairman of the Textile Rental Services Association (TRSA) Environmental Committee, which drives industry involvement in Laundry ESP® and sustainable laundering practices. Mark Lewis (Corporate Sales Manager) has served as Chairman of the Clean & Green Task Force of the TRSA, creating an educational DVD and publishing articles on the topic. Both Dempsey and Lewis have spoken before audiences of TRSA members nationwide on the benefits and methodologies of Clean & Green Improvements, education and marketing. The Clean & Green DVD was shown as part of an MBA study and thesis program at Pepperdine University helping to further educate college students about the industrial impact of clean and green processes.

### Local Environmental Leadership

Dempsey works closely with environmentally conscious customers, like Sanofi Pasteur, with whom Dempsey participated in their Long Term Sustainability project. In addition, Dempsey has worked with local schools to educate children on how businesses can be more “green,” in ways that benefit both the business and the environment.

### Laundry ESP®



Dempsey is a founding member of Laundry ESP (Environmental Stewardship Program), the textile rental industry’s voluntary environmental program, which has been praised by the EPA for its success in protecting the environment. Results include the reduction of waste water pollutants (40%), the substitution of environmentally friendly wash chemicals, the reduction of water (12.6%) and energy usage (11%) in laundering.

### On-site Waste Water Pre-Treatment System

Going beyond local regulations, Dempsey has installed an on site wastewater treatment plant that effectively removes contaminants such as oils, grease and heavy metals. The treated water exceeds all local discharge limits and gives Dempsey the option to reuse up to 20% of the water. The resulting wastewater is readily biodegradable (easy for local POTW to treat) and the solid discharge is non-toxic.



### Environmental Regulations

Dempsey meets or exceeds all regulations. Dempsey regularly monitors environmental compliance at all of our active processing plants to assure that we meet all applicable federal, state and local regulations for:

- Air
- Wastewater
- Storm water management
- Spill prevention
- Solid waste disposal

BEST PLACES  
to work in PA

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