

Hilton Minneapolis



- ▶ Laundry hot water reduced 50%
- ▶ Softer linens without fabric softener
- ▶ Lowered greenhouse emissions
- ▶ Minneapolis, Minnesota

Hilton Minneapolis Discovers Energy Savings with Ozone Laundry System

Like most high-end hotels, the Hilton Minneapolis pampers its guests with fluffy towels and immaculate bed linens.

But the 821-room hotel in downtown Minneapolis takes matters several steps further by washing linens and towels with an Ozone Laundry System that is designed to provide cleaner, brighter results while significantly reducing the building's carbon footprint and cutting the cost of heating laundry water by more than half.

Reduced hot water demand is making it possible for the hotel to replace four old water heaters with two new natural gas-fired high-efficiency condensing boilers that will save more money on laundry water heating costs and qualify for a Minnesota energy conservation rebate through CenterPoint Energy, Inc. The ozone system also earned a rebate for an estimated saving of more than 33,000 therms per year, according to Jen Stokes, Key Account Manager for CenterPoint in Minneapolis.

Laundry costs reduced

For a hotel that washes 3.5 million pounds of laundry annually, the financial benefits can be considerable. In the case of the Hilton Minneapolis, the Ozone Laundry System reduces its overall cost of doing laundry by nearly 24%. The bulk of the savings comes from lowering the wash water temperature and eliminating the need for fabric softener. Washing with ozone-injected water also makes fabrics last longer, with less frequent need for replacement.

The results of the testing showed the Ozone Laundry System would pay for itself in 13.5 months, with an 89% return on investment (ROI). The system reduced the hotel's annual carbon footprint by 209,437 pounds.





“Ozone allows you to wash more effectively in colder wash temperatures,” says Dale Nelson, Director of Property Operations for the Hilton Minneapolis. “The detergent is more efficient at lower wash temperatures. You get better results for the same amount of chemical.”

He says the key to achieving these results was the ozone system marketed by National Energy Services Company, Inc. (NESC) of Egg Harbor Township, New Jersey.

His involvement with ozone began when he asked Mark Lindbloom, Corporate Director of Laundry Operations for the Hilton Hotels Corporation for guidance on the possible use of ozone-injected water for the hotel’s laundry. Lindbloom put Nelson in touch with NESC, and arrangements were made to use the hotel as a testing site for the Hilton hotel chain.

System used in nursing facilities

NESC has installed its proprietary Ozone Laundry System in more than 500 skilled nursing facilities around the nation, according to NESC President John Grillo.

At the Hilton Minneapolis, NESC installed four ozone generators, each the size of a portable television. For four months, the study participants measured the use of hot water, energy and fabric softener while monitoring the quality of laundered products and the amount of wash items needing replacement.

Daily hot water use per load of laundry dropped from 198 gallons to 89 gallons with ozone injection, a 55% savings. The need to re-wash items that didn’t come clean in the first load was also halved. Laundry quality was rated as good.

“Ozone actually opens up the fibers of the material, which makes it softer, whereas chemical residue compacts fibers and makes it hard and scratchy, requiring softener,” explains Nelson.

The opened fibers shorten drying time, adds Dan Truniger, Director of Housekeeping at the Hilton Minneapolis. He said the finished product is noticeably softer despite the lack of softening chemicals.

Quick payback time

The results of the testing showed the Ozone Laundry System would pay for itself in 13.5 months, with an 89% ROI. The system reduced the hotel’s annual carbon footprint by 209,437 pounds.





“The CO₂ reduction is significant,” says Lindbloom, adding that while the hotel chain is not requiring franchisees to install the NESC ozone systems, they can help meet the company’s sustainability goals. NESC has been named the preferred vendor of ozone systems for Hilton.

“With our global commitment to environmental sustainability, it helps us to reach our goals of reducing our carbon footprint,” says Lindbloom.

Hilton Hotels Corporation is launching a five-year sustainability effort aimed at reducing CO₂ emissions, waste output and energy consumption by 20% and cutting water usage by 10%. The initiative will involve its 3,000 hotels in 74 countries.



CenterPoint Energy, Inc.
1111 Louisiana Street
Houston, TX 77002



National Energy Services Company, Inc.
13153 Fire Road Suite 2C
Egg Harbor Township, NJ 08234



Energy Solutions Center Inc.
400 N. Capitol Street, NW
4th Floor
Washington, DC 20001





NE SC

National Energy Services Company, Inc.

A global company that surveys, analyzes, designs and installs custom turnkey solutions that can lower your electricity, natural gas, water and sewer costs.

Five systems and services that can save your company money

1. Energy Efficient Lighting Retrofits
2. Ozone Laundry Systems
3. Mechanical Equipment Upgrades
4. Energy Management Services
5. Telecommunications Programs

3153 Fire Road, Suite 2C • Egg Harbor Township, NJ 08234 • (800) 758-9288 • nescorporation.com

NE SC is a publicly traded company on the Over The Counter Bulletin Board (otcbb.com) (Symbol: NE GS).