# Mass Save® Energy Efficiency Case Study

**Brought to you by Berkshire Gas** 

# ALADCO LINEN SERVICES ADAMS, MA

ALADCO Linen Services of Adams, MA provides Star Quality linen services such as table and kitchen linens, bed linens, uniforms, entrance mats and dust control to restaurants, hotels, motels, hospitals, medical service providers and schools and colleges throughout New England, New York and the route 91 corridor. ALADCO is committed to their position as a leader in the "green" movement in the linen rental industry and is the first hospitality linen rental facility in the nation to commit to driving operations in a green manner.

## **PROJECT SUMMARY**

The move toward becoming green involved gutting and retrofitting a nineteenth century building and investing in a new Pulse-Flow, continuous batch washing system that replaced eight regular industrial washer/extractors. ALADCO currently processes 600,000 lbs. in linen products per month. The old process used about 2.5 gallons of water per pound. Today, the new process uses .4 gallons of water per pound – saving 1,250,000 gallons of water each month. In addition to the reduction in water usage, the effect is compounded by a significant reduction in natural gas and electricity required to heat 84 percent less water than the old system. ALADCO also invested in a lint-free microfiber wiping towel, microfiber mop system and the Environap, an environmentally friendly, smaller napkin that is designed as a cost effective alternative to paper napkins. Overall, the cloth approach heightens the dining experience and removes an entire stream of trash from the table to the landfill.







#### **SAVINGS SUMMARY**

#### THE NEED

Renovation of a 19th century building and equipment upgrade

# **THE SOLUTION**

Comprehensive design analysis and energy-efficient retrofit of building systems

- Total Project Cost \$600.000
- Berkshire Gas/Mass Save Incentive \$50.000
- Cost to ALADCO \$550,000
- Estimated Payback 3.5 years
- Estimated Annual Electric Cost Savings 171,171 kWh per year
- Estimated Natural Gas Cost Savings
   81,732 therms per year
- Estimated Water Savings 14,280,000 gallons (2.10 gal. per pound of linen)

#### BERKSHIRE GAS AS STRATEGIC PARTNER

Berkshire Gas' Energy Efficiency Department worked with ALADCO every step of the way. After participating in Berkshire's Commercial & Industrial Energy Audit Program, ALADCO developed a long-term plan to increase its energy efficiency. Working closely with ALADCO, Berkshire Gas committed \$50,000 in energy-saving incentives to this project. Michael Sommer, Manager of Energy Services at Berkshire commented: "This is the type of energy efficiency project we are excited to be part of. The projected savings for this project of over 81,000 therms and nearly 1.7 million therms over the life of the equipment, are impressive, to say the least. To put this into perspective, the annual savings from this one project equates to the amount of natural gas needed to heat approximately 70 homes per year."

In addition, the installation required very specialized rigging and plumbing services; ALADCO was able to keep that work local by employing Atlantis Equipment Corporation and Adams Plumbing and Heating.

### **ABOUT BERKSHIRE GAS**

Berkshire Gas has been meeting the energy needs of Western Massachusetts since 1853, currently providing natural gas service to 36,000 customers throughout the region. A leader in energy efficiency for nearly two decades, Berkshire Gas provides state-of-the art, nationally recognized energy efficiency programs to its customers.

#### **ABOUT MASS SAVE**

Mass Save is an initiative sponsored by Massachusetts' gas and electric utilities and energy efficiency service providers, including Berkshire Gas, Cape Light Compact, Columbia Gas of Massachusetts, National Grid, New England Gas Company, NSTAR, Unitil, and Western Massachusetts Electric Company. The Sponsors of Mass Save work closely with the Massachusetts Department of Energy Resources to provide a wide range of services, incentives, trainings, and information promoting energy efficiency that help residents and businesses manage energy use and related costs.

To learn more about these and other commercial and industrial energy efficiency programs available, visit <a href="www.MassSave.com/business">www.MassSave.com/business</a> or join the <a href="Mass Save group on LinkedIn">Mass Save group on LinkedIn</a>.



