



MUSEUMS



TYPICAL SYSTEM IMPROVEMENTS

- Archival Environmental Systems Implemented
- Lighting and Lighting Control Enhancements
- Water Efficiency Upgrades
- Solar Water Heating Installations
- Electrical Enhancements
- Central Steam Plant Upgrades
- Energy Management System Installation
- Building Ventilation Improvements
- Mechanical System Enhancements
- Variable Air Volume Air Handling Unit Conversions

CHALLENGES:

All museum curators and their facility directors face numerous daunting tasks. Whether the museum is a privately-supported, locally-significant one room exhibition or a government-funded, internationally recognized complex comprising millions of controlled square feet, conserving energy and saving money while at the same time maintaining the facility's ambience and exhibit presentation are paramount. However, lack of ready access to capital and funding creates difficult obstacles. Deteriorating infrastructure, inefficient artifact and document preservation systems, under-performing building equipment, and compliance with environmental and public safety issues must be addressed. A commitment to minimizing inconvenience to the museum's employees, volunteers and visitors must also be taken into consideration.

SOLUTIONS:

Through our low-risk energy performance contract process, ConEdison Solutions has been able to improve the performance of inefficient equipment, provide significant and verifiable energy savings, decrease energy operating costs, improve the working environment for employees, enhance the visitor's experience, lower the facility's environmental impact, maintain the facility's safety compliance, and reduce downtime and equipment maintenance issues, with little or no up-front capital expense for our museum clients. With a keen awareness of the historical importance of our surroundings, our guaranteed energy performance services enhance the educational mission of each museum, improves the museum's overall appearance while maintaining the structure's aesthetics, and increase the level of energy efficiency to ENERGY STAR designation.

SAMPLE PROJECT HIGHLIGHTS

ENVIRONMENTAL BENEFITS

5,045 tons of harmful greenhouse gas emissions reduced annually which is

Equivalent to:

- Preserving 33.9 acres of forest from deforestation* or
- Conserving 9,658 barrels of oil*

Capital Costs

\$8,859,684

Ongoing Annual Savings

\$733,805

Client Up-Front Investment: \$0.00

*Sources:
• Leonardo Academy's Cleaner & Greener™ Emissions Reduction Calculator
http://www.cleaneandgreener.org/resources/emission_reductions.htm
• U.S. Environmental Protection Agency, Greenhouse Gas Equivalencies Calculator
<http://www.epa.gov/cleanenergy/energy-resources/calculator.html>