

# Computershare



## COMPREHENSIVE ENERGY EFFICIENCY TREATMENT THE PARTNERSHIP

ENGIE Services U.S. (ENGIE) designed and implemented comprehensive energy efficiency solutions at three Computershare locations in the U.S. The scope of the work included improving HVAC and eliminating short circuits at the Computershare Headquarters in Canton, MA., upgrading the 10,000 sq. ft. data center with active and passive air flow management systems, designing and implementing lighting upgrades and Energy Management Systems at the 45,000 square foot warehouse and office location in New Jersey. ENGIE was able to implement all upgrades with minimum disruption to the mission critical facilities.

### Computershare Headquarters - Canton, MA

ENGIE designed and installed a comprehensive solution for Computershare's headquarters in Canton, a three story 215,000 sq. ft. office building with upgrades including:

- Garage lighting retrofits
- Setback and scheduling of fan powered boxes (FPBs) via a new Building Automation System
- Elimination of short circuiting that was occurring from supply to return, significantly reducing cooling, heating and fan energy

Computershare's 10,000 sq. ft. Canton Data Center was upgraded with:

- Active and passive air flow management measures
- Modification of the existing controls system with temperature sensors in the cold aisles, allowing for real-time updates on temperatures
- Upgrades to the controls system to provide information on computer room air conditioning (CRAC) units' behavior, as well as the ability to turn on backup units in the event of an emergency

### Program Summary

#### Canton, MA

##### Lighting & EMS

- Annual Energy Savings: 2,500,000 kWh
- NSTAR Incentive: \$430,633
- Simple Payback: 0.4 Years

##### Data Center

- Annual Energy Savings: 271,343 kWh
- NSTAR Incentive: \$75,162
- Simple Payback: 1.65 Years

#### Burr Ridge, IL

##### Lighting

- Annual Energy Savings: 289,501 kWh
- ComEd Incentive: \$16,918
- Simple Payback: 2.25 Years

##### EMS

- Annual Energy Savings: 205,246 kWh
- ComEd Incentive: \$14,379
- Simple Payback: 3.60 Years

## Edison, NJ

### Lighting & EMS

- Annual Energy Savings: 642,056 kWh
- NJ SmartStart Incentive: \$49,255
- Simple Payback: 1.21 Years

### Energy Efficiency

- Lighting
- Controls
- HVAC

- Connection of a 1,000 sq. ft. lab room to the main data center, easing the control of temperatures in the lab room

### Computershare - Burr Ridge, IL

ENGIE upgraded Computershare's 45,000 sq. ft. of both office and warehouse space in Burr Ridge, IL with:

- Removal of existing metal halide and parabolic lighting fixtures
- Installation of more efficient lighting with occupancy sensors

Across the facilities in Illinois, ENGIE enhanced Computershare's working environments with:

- New energy management system (EMS) with wireless thermostats, providing scheduling, setback and optimum start/stop control strategies
- Controls on five print room exhaust fans that interface with the EMS to provide automatic exhaust fan shutoff when printers are not in use
- Ceiling-mounted occupancy sensors in the cafeteria

### Computershare - Edison, NJ

At Computershare's facility in Edison, NJ, ENGIE performed energy upgrades that improved occupant comfort and provided energy savings with the:

- Replacements of outdated parabolic lighting fixtures with energy efficient parabolic and T8 fixtures
- Installation of an energy management system, qualifying this facility for nearly \$50,000 in utility incentives

## 3 DIMENSIONS OF IMPACT



**Supporting People**



**Saving Money**



**Protecting the Environment**

ENGIE is committed to building three dimensions of impact in every customer's future. The upgrades support Computershare's facilities staff who are in charge of maintaining the mission critical facilities with advanced controls to quickly alert them to building issues. The upgrades yielded paybacks no longer than 2 years, with the addition of over \$100,000 in incentives to help fund the upgrades. The environmental impact of saving 766,090 kWh annually in energy is equivalent to powering 61 homes for an entire year.



Computershare Headquarters - Canton, MA



Computershare working environment in Illinois



Computershare - Edison, NJ



Data Center, Canton, MA