



## Case Study

LECS®

## Energy Control System

A Retailer Realizes more than 40% Savings on HVAC & Lighting

# Solution Family - LECS® is an end-to-end energy control solution

## Highlights

- LECS® Targets Small Retail facilities
- Controls Energy Costs the first day
- Provides phone based local and remote control of facility
- Enables enterprise level scheduling and monitoring
- Provides enterprise level maintenance and diagnostics for all your facilities

The current demands on retail facilities require them to look at all costs, including operations, to reduce overall expenditures just to survive. Already at work in facilities around the United States, LECS® is a proven solution for lowering energy consumption and bills while placing the visibility of all your locations in your hands with LECS® Mobile.

The Solution Family LECS® (Learning Energy Control Solution) was specifically designed to meet the energy demands of retail shops, restaurants, medical offices, and other small commercial businesses.

## Challenge

Surviving today in the retail sector requires optimal performance from your equipment. The costs associated with replacing your existing equipment are not justifiable. Retailers have to work with their existing equipment and find cost savings by optimizing operations without the luxury of replacement.

Typical hot summers and high energy bills were taking a toll on a district manager for a leading Tax Service Provider, in Gulfport, Florida, so he decided to address his HVAC and lighting controls.

With the sweltering heat, employee and customer comfort were significant concerns. His staff was also adjusting the thermostat regularly, creating inefficient fluctuations in temperature. Another issue was lighting. Sometimes he'd go by his location at night and see that security and signage lights were not on creating both a safety and marketing issue.

**Confirmed data demonstrates that LECS® reduced total energy consumption by 42% in the first month of operation**

The District Manager needed a more reliable method to control energy use throughout his district. Timings for lighting were often made to address daylight and non-daylight savings times so that maintenance staff would not have to be bothered.

The District Manager faced the need to control and manage a variety of store locations while both onsite and traveling. He faced constant phone calls throughout the day for temperature control and equipment issues.





The variation in utility bills did not correlate to average temperatures or usage patterns. He was feeling overwhelmed!

**Solution**

This district manager selected Solution Family to automate his temperature and lighting controls with LECS®. With distinct-wide capabilities and proven success LECS was an affordable investment that would deliver a fast return on investment. It would also give the district manager the ability to schedule, monitor, and control energy loads conveniently from anywhere.

LECS®, the Learning Energy Control System, introduces revolutionary control strategies for a variety of facility systems combining the latest learning technologies with traditional building system interfaces. LECS optimizes both energy usage and facility operations providing a total facility solution.

The installation was easy, and took only a few hours on a early Saturday Morning. The location required no down time. The LECS® system addressed two HVAC units and Signage Lighting. In addition, two front door entrances and water leak detection around an old water tank were monitored since they were problematic at the store. Existing thermostat locations were used as well as adding additional space temperature sensors in more appropriate locations virtually eliminating the need for manual thermostat adjustments.

**Results**

Immediately upon installation, the LECS® system identified an 8 degree supply temperature difference between two identical HVAC Units that was not identified by their existing controls or maintenance personnel. The unit causing the problem was scheduled for immediate maintenance where it was found to have severely clogged filters. The existing mechanical lighting timer was set at providing 2 hours of lighting during daylight times. This was immediately eliminated by LECS®

Even though initial estimates suggested a 20% to 24% savings on HVAC and lighting costs, the district manager discovered savings of over 42% in the first month

The district manager relies on his ability to monitor his LECS® control system while he travels throughout his district. He has developed confidence that the LECS® solution is working for him to control and diagnose his systems and tapping him on the shoulder only when he needs to get involved.

With generated savings in utility costs, increased diagnostics and remote scheduling, this district manager is planning to install LECS® through his district.

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