

Convenience Store Automation:

Facility Management Systems make it easier than ever to reduce energy usage, ensure equipment up-time, and monitor perishable products

In order for convenience stores to remain competitive, it is necessary to take advantage of technologies that help reduce operating expenses. In the past, the store manager monitored lighting, HVAC, and refrigeration systems as well as placed service calls. Moving forward, it will become more important to automate these systems to improve efficiency. That is why many of the leading convenience store operators have turned to Emerson's E2 for increased store efficiencies and energy savings—as much as 10% or more a month.

The E2 CX provides better control and management of store systems and helps to minimize the cost of store operations, increase equipment life, and reduce down time for equipment such as: store lighting, HVAC systems, reach-in coolers, freezers, fuel dispensers, irrigation systems, car washes, anti-condensate heaters and more.

As energy costs increase, accurate control of lighting can significantly reduce your overall power bill. The lighting loads associated with case lights, parking lot lights, canopies, and signage represent a substantial cost for operators—inadvertently running exterior lighting for an additional hour per day costs the operator nearly \$900 additional dollars a year. The ability to control these loads using schedules and sensors help you reduce the overall usage while still maintaining a comfortable environment for your customers.

Accurate control of HVAC equipment provides a more inviting environment for your customers while also helping to prevent product shrink. Compared to traditional thermostat controls, the E2 can provide consistent temperatures across your operation while also eliminating the additional operating costs of store personnel continuously raising and lowering store temperatures due to personal preferences. Incorporating night setback programs are another way in which the control system helps you minimize the operational costs of HVAC equipment by reducing run times and energy consumption.



CPC's E2 CX is a fully functional facility management system for lighting, HVAC, refrigeration, and more.

One of the other large energy consuming systems in a convenience store is the refrigeration system. Refrigeration systems typically account for 37% of the electrical usage in a convenience store. As sales of prepared food become more important to the industry and more refrigerated cases are added to store prototypes, this cost will only rise. The ability to control and maintain refrigeration temperatures becomes more critical as well as the ability to monitor door closures and defrost times.

E2 CX is more than just an energy management system though. With the ability to integrate other third party devices, the controller can effectively communicate to current fuel dispensing technology as well as car wash systems. By monitoring sub-

mersible pump motors, the controller can effectively identify potential failures allowing your service personnel to replace motors in off-peak times and avoid lost fuel sales.

These capabilities are all enhanced by the E2's ability to support remote communications. Remote communications allow authorized personnel to remotely view and change equipment settings and receive alerts remotely or to Emerson's state-of-the art monitoring center in Atlanta, GA. Capable of supporting any operation 24/7, our technicians can assist you with set point verification, remote alarm receipt, service dispatch, energy analysis, and much more.

With a typical payback of less than 18 months, just on energy usage, you can certainly understand how the E2 CX can make a big impact on your operating costs. This savings is like getting a month's worth of energy for free every year and with rising electricity costs across the country, these savings are sure to grow in coming years.



E2 CX helps manage and control lighting in addition to being able to receive alarms from fuel dispensers and other facility equipment.

For more information on Emerson's E2 CX or services capabilities, call 770-425-2724 or visit EmersonClimate.com/cstore. Visit us at the 2006 NACS Show, booth number 4871.

**Meet one store manager who handles all the details,
doesn't take days off and never asks for a raise.**

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What if you had one employee you could rely on 24 hours a day to ensure every piece of equipment in each of your stores was running at maximum efficiency? You'd make him employee of the month.

After all, the money he'd save you over two years in energy savings alone would more than cover your investment. Add the confidence of knowing this employee would make your expensive refrigeration and HVAC equipment easier and less expensive to service, and you'd find yourself with more control over your operations than you ever imagined.

Contact Emerson Climate Technologies today to hear more about the E2 Facility Management System, the next breakthrough from the world leader in retail environment control. Your new favorite employee is waiting to meet you.

EmersonClimate.com/cstore
770.425.2724



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