

Setpoint management nets supermarket \$7 million savings



Result

- Utilized Emerson's Proact™ Service Center and Setpoint Management Service to ensure ongoing store optimization
- Reduced 'efficiency creep' by remotely monitoring and triaging setpoint changes that negatively affect energy consumption
- Maintained 83% of value gained from energy commissioning program, saving over \$7 million across 1,000+ stores

Customer

A supermarket retailer with more than 1,700 stores in the United States.

Challenge

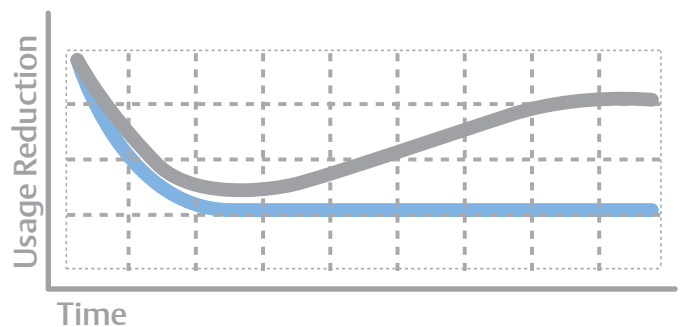
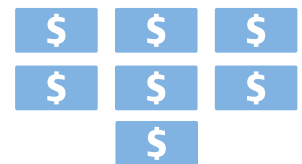
A retail facility is at its most efficient on the day it is commissioned. Inevitably, the efficiency of energy-intensive HVAC and refrigeration systems declines over time. This is due to wear and tear as well as well-intentioned—but not always well-informed—actions of maintenance service providers.

To prevent this eventual loss of efficiency, the client needs a way to monitor and continuously optimize stores to their original levels.

Summary of results

ENERGY SAVINGS
\$7 MILLION

Using Emerson's Setpoint Management Service



●
Energy savings erosion without Setpoint Management

●
Energy savings preservation with Setpoint Management



Solution

With the help of the company's energy and maintenance personnel, Emerson created a baseline of optimized equipment and system settings that balanced performance with energy efficiency. Any deviations from this baseline were routed to Emerson's ProAct™ Services Monitoring Center through the installed network of E2 management systems.

By monitoring and triaging costly setpoint deviations, and then notifying the responsible service providers for either change rationale or resolution, Emerson's Setpoint Management service enabled the supermarket to ensure ongoing efficiency as they continuously commissioned over 1,000 stores.

Through a customized, data-driven process, Emerson technicians and store maintenance personnel work together to ensure that maintenance decisions are made with full knowledge of lifetime and energy costs.

Operating an energy efficient supermarket requires not only designing for energy efficiency, but also maintaining for energy efficiency. Equipment setpoints often return to non-optimized levels as soon as six months after commissioning, eliminating much of the savings. Three years after their energy commissioning program ended, Emerson's services helped the customer preserve over 83% of their energy savings. Planning for ongoing efficiency saved this customer over \$7 million.

Web Reports

- Cost/Benefit Analysis
- Contractor Performance Analysis
- Incident History & Comments



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How Emerson improved energy efficiency across client's stores

