

OVER 28.9% ENERGY SAVINGS IN 3 YEARS

Cascade Energy helps Sysco reduce their energy usage by over 250,000,000 kwh/year.

CASE STUDY

In late 2005, Sysco – one of the nation's largest food-service companies – embarked on an aggressive energy-efficiency initiative to reduce energy consumption at its distribution centers.

Sysco asked Cascade Energy to help them meet their goals. Under Sysco's direction, Cascade spearheaded the design, rollout, and administration of a new multifaceted, company-wide energy-management program. The program officially began in April 2006, with a **four-pronged approach**.

- 01 Establish savings goals for two successive three-year periods.
- 02 Develop a web-based, company-wide, energy-information system.
- 03 Conduct aggressive facility tune-ups.
- 04 Integrate energy efficiency into all retrofit, expansion, and new construction projects.

After three years, Sysco surpassed its initial goal of 25% by reducing company-wide electrical energy intensity (kWh/ft³) by 28.9%. After less than five years (January 2011), it was down 34.2% – surpassing their six-year goal of 31%.

Corporate Commitment and Energy Goal

Sysco established an aggressive savings goal of 25% for first three years and 31% by the end of six years. Sysco's corporate energy-management program to achieve those goals relies on a skilled and knowledgeable team that includes site staff, corporate staff, vendors, and contractors, including Cascade. Gathering and empowering the right team – that rare mix of technical expertise and real-world experience – to develop and manage the energy program has been key to the success of Sysco's program.

Benchmarking and Monitoring

Cascade helped Sysco develop a web-based energy-information system that tracks monthly utility bills and real-time metering for all Sysco facilities. The system benchmarks every Sysco site using normalized efficiency factors. This lets Sysco compare facilities in different regions regardless of size, space makeup, or weather. Monthly reports document system status, energy consumption, and efficiency improvements. These tools let Sysco accurately track company-wide progress and motivate employees.

Facility Tune-Up

Cascade sent an engineer and experienced technician to each site for 3–5 days to aggressively review and tune (retro-commission) the refrigeration, lighting, HVAC, doors, and other energy-using systems. A tune-up report documented the implemented changes, and recommended improvements were posted as action items in the web-based energy-information system. Sysco empowers its staff to implement the action items promptly. The local refrigeration contractor, controls firm, electrical contractor, and HVAC contractor are often deeply involved in this process to ensure that savings persist.



www.sysco.com

28.9% savings after 3 years

34.2% savings after 5 years

Clear understanding of system status and performance

250,000,000 kWh per year in energy savings

Energy savings equivalent to >25,000 US homes

Carbon reduction equal to pulling 38,000 cars from the road each year

Capital Investments

During the facility tune-ups Cascade identified potential energy efficiency upgrades that offered significant returns but required a more substantial investment. Cascade and Sysco worked together to perform detailed engineering analyses to ensure that the investments would each yield the desired high rate of return. After each analysis was complete, Cascade worked closely with Sysco's contractors before, during, and after installation to ensure the installed system met the energy savings targets.

Innovation

Sysco regularly reviews new technology and conducts extensive research on controls, warehouse doors, battery chargers, lighting, and other energy-using equipment and systems. They rely on Cascade to assess these technologies accurately and objectively. Sysco also engages third-party experts to review long-term utility contracts, and provide training, technical papers, and presentation material to their staff.

Engineering Follow-Up

Sysco has integrated energy efficiency into all retrofit, expansion, and new-construction projects. Cascade reviews the corporate bid specifications, and has developed a standard suite of energy-efficient alternates that Sysco's Construction Department requests on all new-construction projects. Cascade and Sysco's project-management team work together to implement the best and most cost-effective technology at existing and new Sysco facilities while maximizing utility rebates. With this approach the energy intensity of newer facilities is often less than half that of Sysco's pre energy-efficiency initiative sites.

Energy Coaching

Each Sysco site has an "Energy Champion" – a person responsible for monitoring energy use and for driving the efforts to save energy at the site. The energy-management tools help the Energy Champion by providing easy access to utility histories, real-time meter data, and benchmark data, and by tracking action items. These tools provide continuous feedback about program savings and identify unusual trends in usage or performance degradation so they can be addressed promptly. An online forum provides a venue for Energy Champions and Cascade engineers to ask questions, share ideas, and offer suggestions to one another to ensure that what is learned at one facility is spread throughout the company. Monthly ranking reports let the Energy Champions at various sites compare their performance with their peers', thus fostering a healthy competition to produce results.



“ Since beginning its energy management plan in 2006, through the end of fiscal 2011, Sysco's Broadline organization achieved a 19% reduction in kilowatt hour usage while warehouse storage volume increased by 14%. ”

– Peter Richter

Real Estate Sr. Project Manager, Sysco Corporation

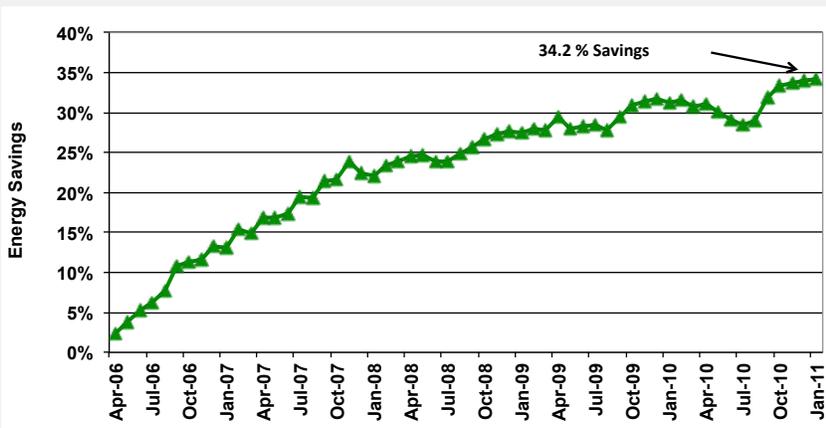
Start Building Your Energy Management Strategy Today!

Call us **1.800.321.4573**

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SYSCO Yearly Percent Energy Savings



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