

STORIES BEHIND THE BATTLE



Kmart 7499 Mount Vernon

Sears Holdings Corporation
Mount Vernon, Ohio

RECOGNITION:

#14 overall winner
20% energy use reduction

SAVINGS:

31% energy savings
\$28,200 estimated cost savings
287 MtCO₂e greenhouse gas emissions prevented

BUILDING STATS:

Type: Retail
Ending EUI: 125 kBtu/Sq. Ft.

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“It takes a team to achieve a win. All players must be engaged to be successful. Keep improving as a team and continuously revisit the low-hanging fruit because low-hanging fruit always grows back if not maintained.”

Shedding light on the basics

The largest savings at Kmart 7499 resulted from upgrading the existing T12 technology and replacing it with T8 lighting, which is a cost-effective solution. As a result, the store had lower consumption, a reduced peak demand, and less internal heat gain. By reducing heat gain, the team was also able to reduce cooling operation during warmer temperatures.

This site also benefitted from upgraded thermostats, which allowed the team to have tighter control on zone temperatures. With tighter control came reduced heating and cooling demands. The team also spent significant time cleaning and making necessary repairs to the HVAC systems for efficient operation.

Because the store doesn't have an energy management system (EMS), the team also mapped out the circuit breakers for different levels of lighting operation. The facility team then trained the staff on how to use this color coding to reduce consumption during different stages of operation, such as stocking. These efforts were supported by the store staff, and the Store Manager is also now more aware of energy use and communicating any known issue to the facility team on a timely basis.