

Case Study

U.S. Manufacturer Reduces Demand, Slashes Energy Costs

Innovative companies are deploying energy conservation measures to counteract rising operational costs.



CHALLENGE

With electricity prices on the rise, forward-thinking organizations are turning to energy efficiency and sustainability solutions to control operational costs and meet corporate ESG goals. One such company—an innovative U.S. manufacturer—set out to implement a facility-wide sustainability strategy aimed at reducing energy usage, cutting maintenance expenses, and achieving zero-waste operations.

APPROACH AND SOLUTION

The facility implemented a phased, site-wide sustainability strategy that began with the installation of high-efficiency LED lighting. This improved visibility and reduced energy use by over 420,000 kWh annually—saving more than \$57,000 each year.

An upgrade to the HVAC system cut more than 570,000 kWh in annual energy use and saved \$168,000, with a payback period of under 12 months.

A customized recycling program and waste-to-energy systems were also introduced. Together, these efforts delivered substantial cost reductions, energy savings, and meaningful progress toward zero-waste and sustainability goals.

AT A GLANCE

- ▲ **Location:** Ohio
- ▲ **Building Type(s):** Commercial buildings
- ▲ **LED Light Fixtures Installed:** 670
- ▲ **Reduction in Energy Use (LED):** 420,000 kWh annually
- ▲ **Reduction in Energy Use (HVAC):** 570,000 kWh annually
- ▲ **Operational Cost Savings:** \$225,701
- ▲ **Reduction in CO2:** 934 tons
- ▲ **Zero-Waste Certified**

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