

Energy Saving Tips

Key Focus Area	Minimum Recommended Action	Some Best-Value Enhancements	Energy Tips
Benchmarking You can't manage what you don't measure. Performance benchmarking nearly always leads to savings.	 Know your total annual energy use and cost, and how that compares to similar buildings and/ or applications. Understand how much of every \$1 in energy saved comes back to your business. 	 Set preliminary energy-reduction goals. Update energy use and cost data on a monthly basis (based on utility bills). At least once per year, answer the following questions: What's the historical trend (am I increasing or decreasing)? How do I compare to the "average" (similar building/application)? How much would I save if I met my goal? 	While you don't need to be an expert to maintain benchmarking data, you may want to consider working with a professional to initially compile your data, train your team, and verify accuracy.
Lighting Typically accounts for 20%-30% of energy use.	 Verify that INTERIOR lighting isn't on at night/when space is unoccupied. Verify that EXTERIOR lighting isn't on during the day (when not required). 	 Verify operating schedules on holidays and day/night transition periods. Obtain a proposal for a lighting retrofit (evaluate interior and exterior lighting retrofit proposals both together and separately). NOTE: If you haven't had a retrofit in three or more years, it's likely time. 	There are two quick ways to get the information you're looking for. Consider: • A walk-through at night. For lighting, take pictures (inside and outside) when things should be (moeth) off
HVAC Typically accounts for 35%-45% of energy use.	 Ensure a quality planned maintenance program (typically four quarterly visits). For "major" HVAC equipment, verify that units have the proper controls (and are properly configured) to operate in different modes during occupied and unoccupied periods. 	 Ensure that your maintenance includes: Annual cleaning of the condenser coil. Verification that the economizer ("free-cooling" mode) is properly operating. Catalog the age of major equipment and estimate remaining useful life (using published estimated useful-life data). 	 Work with your HVAC provider to record space temperature, lighting levels, and CO2 levels (for venti- lation) at multiple locations in the building over a sev- en-day period. The results often identify additional areas for improvements.
"Plug" Loads Varies, but typically accounts for ~20% of energy use.	 Walk-through the space and count the number of: Major appliances/office equipment. Space heaters. Task lights in use. 	 Utilize "timer" power strips and configure for occupied/unoccupied schedules consis- tent with business requirements. Work with your IT group (or users directly) to help ensure that power-management features in computers, monitors, printers, and copiers are properly configured. 	There are even more advanced power strips that enable remote monitoring and control. Consider a small- scale "pilot" to determine if this makes sense elsewhere.