



ENERGY EFFICIENCY CHECKLIST FOR WAREHOUSES

Every warehouse is unique. But whether it's a place to store clothing and electronics, a refrigerated facility keeping food fresh, or anything in between, your warehouse likely has plenty of opportunities to become more energy efficient. Use this checklist to help spot energy-saving opportunities to reduce your operating costs and improve your bottom line.

BEST PRACTICES	OPPORTUNITY EXISTS?	PROJECT LEAD	TARGET DATE FOR COMPLETION	BUDGET FOR IMPROVEMENTS	AVAILABLE INCENTIVES AND REBATES	ESTIMATED PAYBACK PERIOD
LIGHTING						
De-lamp. Look for areas of the warehouse that benefit from natural light and remove lightbulbs from those areas. (Safety tip: Be sure there are adequate levels of lighting during all parts of the day when the warehouse is occupied).						
Use task-specific lighting where possible to avoid keeping all overhead lighting on.						
Replace fluorescent or metal halide lighting with energy-efficient LEDs. Bonus: LED bulbs last far longer, cutting down on maintenance costs.						
Use LED lighting in parking lots, parking garages and loading docks.						
Replace exit signs, security signs and emergency lighting with LEDs.						
Use occupancy sensors so lighting is only on when necessary.						
Install dimmer controls to adjust lighting when needed.						
Look for opportunities to add skylights or high-level windows to take advantage of natural light.						
BUILDING ENVELOPE						
Look for cracks or areas that could be leaking air. Set a schedule for regular walkthroughs with a small team to look for cracks that you can seal.						
Use weather stripping and caulking around doors, windows or other openings. Set a schedule to regularly look for spots that need repairs.						
Upgrade aging windows.						
Install seals and/or shelters around loading dock doors.						
Ensure proper insulation around the walls and roof. Replace it if needed.						
Use "cool roofing" materials to avoid heat transfer into the building during the warmer months.						
HEATING AND COOLING						
Put up signage to remind employees to close bay doors when they're not in use.						
Consider replacing unit heaters with low-density radiant heaters.						
Install low speed, high volume ceiling fans to circulate conditioned air, plus move warmer air downward during colder months.						
Install ENERGY STAR-certified HVAC equipment that is properly sized for the environment.						
Install variable frequency drives on HVAC equipment to reduce maintenance costs.						
Replace aging rooftop cooling units with high-efficiency models.						
Consider installing a CO sensor to control ventilation fans.						
Consider an exhaust heat pump to recover and use heat generated by equipment.						
Install air-side economizer controls to adjust outside air intake to keep the space cool during warmer months and warm during winter.						
Replace filters in your HVAC system. Set a reminder to do this regularly.						
Turn off exhaust fans in areas that aren't occupied.						
REFRIGERATION						
Standardize temperature controls. Depending on the products you're storing, you may be using more cooling power than necessary. Check the settings regularly and adjust as needed.						
Ensure refrigeration equipment and freezers are properly insulated.						
Install variable frequency drives on compressors and evaporator fans.						
Use demand defrost controls to defrost only when needed, instead of using automatic timers.						
Use evaporator fan controllers. Consider setting fans to a lower speed, as full speed operation may not be necessary.						
Add air curtains/strip curtains to walk-in refrigerator and freezer doors.						

GET MORE TIPS TO IMPROVE YOUR BUSINESS THROUGH ENERGY EFFICIENCY.

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