



CERTs

CLEAN ENERGY RESOURCE TEAMS

Energy Assessment Toolkit for Food Shelf Facilities

Saving money on your electricity bill can be as simple as cleaning equipment and forming new habits. Improve your facility with this do-it-yourself list.

AN IMPORTANT FIRST STEP: GET AN ENERGY AUDIT

An energy audit is a review of your facility by a professional which includes recommended actions and projects.

Talk to your gas or electric utility providers and visit CERTs' Energy Audit web page: z.umn.edu/EnergyAudit

BUILDING ENVELOPE

The roof, windows, doors, and walls that separate the inside and outside of a building.

Actions to Take

- **Inspect doors and windows to find gaps or cracks.** These air leaks can be weather-stripped, caulked, or filled with foam insulation.
- **Use window shades to maintain indoor temperature.** In winter, close shades at night and open shades on sunny days. In summer, close shades on sunny days.
- **Keep doors closed to the outside.** Also, keep doors closed to any areas that are not heated or cooled.

Items to Consider Purchasing

- **Weather stripping or caulk** to ensure cold air doesn't slip through in the winter and hot air doesn't slip through in the summer.
- **Window film** to put over windows to prevent cold coming inside in the winter.
- **Window shades** to block out the sun's heat in the summer and retain building heat in winter.

REFRIGERATION

Actions to Take

- **Set refrigeration to energy-saving and food-safe temperatures:** 35-38 degrees Fahrenheit for refrigerators and 0 degrees for freezers.
- **Identify leaky refrigerator and freezer doors.** Close the door on a piece of paper, if it is easily pulled out replace the seal/gasket.
- **Check that refrigerator cooling coils are clean.** Use a vacuum or duster to remove dust and debris annually.
- **Defrost the inside of your freezer or refrigerator.** Once per year unplug it and leave the doors open for a day to fully thaw out.
- **Move refrigeration units away from heat sources,** including heating system vents, radiators, cooking appliances.
- **Use the power saver feature** when available.
- **Unplug unused refrigerators or freezers.**
- **Use refrigerator anti-sweat feature only when necessary.** This feature is only needed when there is high humidity in the facility's air.

Items to Consider Purchasing

- **Refrigerator/freezer thermometers** to confirm the units are set to the correct temperature.
- **Seals/gaskets** to keep cold air inside the refrigerator/freezer.
- **Open fridge covers** to keep food cool outside of distribution times.
- **Open door alarms** to prevent cold air loss if the door is accidentally left open.
- **Conductivity-based anti-sweat control** to automatically shut off the anti-sweat device when not needed.



When buying equipment or lighting, check for the ENERGY STAR logo – this means it is recognized as an energy-efficient model. You can find lots of rebates for ENERGY STAR products using the ENERGY STAR Rebate Finder: energystar.gov/rebate-finder

OFFICE EQUIPMENT

Actions to Take

- **Activate power management settings on office equipment.** Other equipment like monitors, printers, and copiers may have these settings available, too.
- **Identify equipment left on overnight.** Equipment left in sleep, idle, or “screen saver” mode still use energy. Form habits to turn off equipment when not in use.

Items to Consider Purchasing

- **Power strips** to more quickly turn off many plugged-in devices at once at the end of a day.
- **Smart power strips** to automatically turn off computer accessories (monitor, speakers, printer) once the computer is powered down.

HEATING AND COOLING

Actions to Take

- **Stop using individual space heaters.** They are very inefficient and a fire hazard.
- **Regularly maintain your heating, ventilation, and air conditioning (HVAC) systems.** If you do not have staff trained to do this, have an annual maintenance contract to “tune up” HVAC during both fall and spring seasons.
- **Replace furnace filters monthly.** This will improve the efficiency of the furnace, extend its life, and reduce dust in the facility.
- **Program your thermostat to heat or cool at specific times.** A smart thermostat can be programmed to cool or heat spaces in advance rather than maintaining a constant temperature.

Items to Consider Purchasing

- **Smart thermostat** - to program your heating and cooling times instead of maintaining a constant temperature.
- **Air source heat pump** - to replace or supplement your heating or cooling system.

LIGHTING

Actions to Take

- **Eliminate “day-burners.”** Exterior and parking lot lighting should only be on at night. If they are on during the day, establish a practice of turning them off each morning or check for a failed or dirty light sensor.
- **Consider using automated lighting controls.** These best fit low traffic spaces with lights that are routinely left on (restrooms, storage areas, hallways, etc).
- **Replace incandescent or fluorescent lighting.** Consider opportunities to upgrade to LED lighting from incandescent and fluorescent fixtures in areas where the lighting is most used.

Items to Consider Purchasing

- **LED lighting** - to replace inefficient incandescent lighting.
- **Automated lighting controls:**
 - **Motion or occupancy sensors**
 - **Daylight sensors**
 - **Timers**
 - **Dimming controls**

MORE INFORMATION

Citizens Utility Board of Minnesota offers utility bill consultations for food shelves. Contact them: info@cubminnesota.org or (651) 300-4701.

CERTs’s Clean Energy Resources for Food Shelves offers more energy efficiency resources and renewable energy options to consider: z.umn.edu/FoodShelves



Visit CleanEnergyResourceTeams.org/Food-Shelves