



## SOLUTIONS FOR BUSINESS

# GROCERY AND CONVENIENCE STORES

### Stock up on energy savings

Grocery stores often generate excessive energy waste. Cut energy costs, improve your operational performance and boost sales with these simple tips.

#### Savings Opportunities: Peak Demand Management

Discover ways to maximize energy savings, manage demand or develop a time-of-use action plan.

##### Lighting

- Use motion-activated lighting in coolers.
- Take advantage of natural light to reduce the need for overhead lights.

##### Plug Loads

- Turn off coffee brewers, fans and scales when not in use. Add "night covers" to display cases after hours.
- Use sensors to turn off conveyor ovens and electric fryers when food is not present.

##### Long-Term Strategies

- Pre-cool your space before the peak hours of 3-8 p.m.
- Use a smart thermostat to align temperature set points with foot traffic.

#### Did you know...

\$1 of energy savings is equivalent to \$100 in increased sales.\*

#### Manage Your Account 24/7

##### At [aps.com](http://aps.com) you can:

- Monitor your daily demand and energy usage
- View monthly and annual comparisons
- Sign up for usage and outage alerts
- Make payments
- Go paperless



Ready to lower energy costs and reduce your environmental impact? Check out more quick tips below to improve efficiency in each area of your store:



### Refrigeration

- Check and replace walk-in cooler and freezer door gaskets.
- Replace fluorescent refrigerated case lighting with motion-activated LEDs.
- Install strip curtains and automatic door closers on walk-in coolers to reduce air infiltration by 75%.
- Add high-efficiency electronically commutated (EC) variable-speed evaporator fan motors (which typically use 70% less energy) to walk-ins and reach-in refrigerated cases.
- Install anti-sweat heater controls in refrigerated cases.
- Provide adequate air flow around the condenser coils of refrigeration equipment and clean them regularly.
- Purchase Energy Star® certified ice machines, which use 15% less energy and 23% less water than other models.



### Lighting

- Purchase indoor lighting with an 80+ CRI color quality rating.
- Replace fluorescent lamps with LEDs and save 30% or more. Brighter LEDs encourage shoppers to handle and examine more products.
- Use high illumination levels and high CCT color temperatures (4000K+) for outdoor lighting.
- Use lower illumination levels and lower CCT (<3000K) for product displays.
- Add skylights to introduce natural light into your store and reduce the need for overhead lighting.
- Clean lighting fixtures regularly.
- Install occupancy sensors in low foot-traffic areas such as restrooms and storage areas.
- Use motion sensors on refrigerated product display cases to turn off lights when customers are not in the vicinity.



### HVAC

- Use a smart thermostat to reset space temperatures during times of low foot-traffic.
- Achieve energy savings and avoid frequent breakdowns:
  - Inspect and replace air filters regularly.
  - Schedule seasonal tune-ups to check refrigerant levels, clean internal components and tighten loose connections.
  - Verify economizer operation (if applicable).
- Replace older air conditioning units with energy efficient models and save 30% or more.
- Implement rooftop economizers to pull in cool outside air, saving up to 10% on cooling costs.
- Install shade screens or window film to reduce solar heat gain.

## A Case Study in Grocery Efficiency

An Arizona grocery chain improved its bottom line and achieved greater energy efficiency with equipment upgrades. This project involved purchasing an energy management system, installing floating head pressure controls and variable speed drives, and outfitting coolers with anti-sweat heater controls. These energy efficiency updates were a success, providing the grocery chain with both financial and non-financial benefits.

### Non-Energy Benefits

- Increased grocery sales
- Greater employee productivity
- Reduced environmental footprint

### Financial Benefits

- More than \$119,000 saved each year in electricity costs
- Decreased maintenance costs



## Start saving today.

For more ideas and to learn what rebates are available, call the Solutions for Business team at (866) 333-4735, email us at [aps.solutionsforbusiness@dnvgl.com](mailto:aps.solutionsforbusiness@dnvgl.com), or visit [aps.com/businessrebates](http://aps.com/businessrebates).

