

Solutions and Incentives for Grocery Stores and Supermarkets

Food retailers across Greater Philadelphia are boosting profits by lowering energy costs. From large supermarkets to corner grocers, any business with refrigeration and food-service equipment can receive financial incentives to improve energy efficiency.

Grocery stores and convenience stores are some of the most energy-intensive commercial buildings.¹ With incentives from PECO Ways to Save, upgrading to more efficient equipment can result in operational and maintenance savings that offer a fast return on investment.

In addition to lowering costs, energy efficiency improvements can enhance store appearance, improve aisle comfort, help prevent food waste and increase visibility in display cases.

Energy efficiency solutions offered by PECO Ways to Save include incentives for refrigeration controls and motors, LED lighting and a variety of heating, ventilation and air conditioning (HVAC) system upgrades.

Don't Sweat It: Incentives for Efficient Refrigeration

Think of energy efficiency improvements like a boost in sales. A report from the U.S. EPA on energy efficiency opportunities in grocery stores found that achieving a 10% reduction in energy costs would be equivalent to increasing net profit margins by 16%.²

Refrigeration savings are plentiful. Door heater controls, for instance, prevent heaters from unnecessarily operating to remove condensation in periods of low humidity. By making sure anti-sweat heater controls are properly calibrated, grocers can achieve maximum savings.

To maintain the temperature in walk-in coolers, grocers can replace motors in forced-circulation evaporators. These motors typically run continuously, even though on average full airflow is only required about half the time. Adding a controller can cut voltage to the motor by more than 75%. In the process, more efficient motors create less excess heat, maintaining cooler walk-in temperatures.³



It also pays to replace an entire walk-in refrigerator/freezer. Shaded-pole motors can be replaced with electronically commutated motors (ECMs) in evaporator fans to yield annual savings of about \$104 per fan.⁴

Save Energy With the Lights On or Off

Even after hours, improving refrigeration efficiencies can boost store profits. Refrigerated case shields, often known as night curtains, can reduce a display case's electricity use by more than 35% and delay food spoilage by avoiding exposure to heat and dry air.⁵ PECO Ways to Save offers incentives for night shields per case.

Installing more efficient lighting offers another opportunity to extend product life. Due to the absence of UV radiation and the ability to maintain colder case temperatures, LED lighting can extend the retail life⁶ of packaged meats.

Likewise, LEDs help to maintain fresh flower bouquets, stalling decomposition by emitting less heat while enhancing true colors through excellent color rendering. Several stores are seeing less product spoilage and more appealing displays through the use of LEDs.

PECO Ways to Save offers incentives for LED case lighting, day lighting sensors and case light occupancy controls. Several other

lighting options qualify for incentives, including upgrades to exit signs and parking lots and the removal of unnecessary lighting.

Businesses that replace lighting equipment with their own maintenance staff are encouraged to contact a distributor who offers PECO Instant Lighting Discounts⁷ on energy efficient interior and exterior lighting. Save instantly at checkout on approved products.

Many More Incentive Options

In addition to incentives for refrigeration controls, case shields and LED lighting, PECO Ways to Save offers incentives for a variety of refrigeration, food service and HVAC projects.

Comfort systems including high-efficiency air conditioners, as well as energy management systems that centralize control of HVAC equipment, are incentivized on a per-ton basis.

PECO Ways to Save representatives are available to help identify appropriate energy-saving measures and explain the incentive application process.

Examples of qualifying energy efficiency measures

Technology	Description
Floating head pressure control	Saves energy by reducing the amount of work compressor motors need to perform when pressures are low
Anti-sweat heater controls	Automatically engages heater to ensure condensation-free door
Evaporator fan EC motors	Reduces the power while maintaining temperature setpoint
Refrigeration Case LEDs	Maintains colder case temperatures

► Contact Us Today!

Food retailers interested in maximizing the energy efficiency potential of their stores should contact PECO at **1-844-4BIZ-SAVE** (1-844-424-9728) or visit [peco.com/grocery](https://www.peco.com/grocery).

¹ energystar.gov/buildings/benchmark/understand-metrics/what-eui

² epa.gov/sites/production/files/2016-03/documents/2015-03.pdf?elqTrackId=a486270e7bc44066afd4e096c937db6a&elqaid=72&elqat=2

³ https://ouc.bizenergyadvisor.com/article/walk-cooler-controllers

⁴ studylib.net/doc/18093986/ge-ecm%E2%84%A2-evaporator-fan-motor-energy-monitoring

⁵ econofrost.com/benefits/energy-savings/?elqTrackId=a5c02ec540214563aded42abdb876e1a&elqaid=72&elqat=2

⁶ phys.org/news/2012-01-meating-solution-meat-shelf-life.html?elqTrackId=f0dc62d6ccb434fae0d4857a97d9c1b&elqaid=72&elqat=2#jCp

⁷ peco.com/InstantDiscounts