



# Village Market

Fully automatic predictive monitoring provides massive energy savings and peace of mind



## Background

With their high energy draw and maintenance requirements, walk-in coolers are one of the largest expenses for convenience stores. A solution that optimizes energy use and streamlines their upkeep can save owners hundreds of dollars per month for each location installed. Village Market has been in operation since 2008 and has 4 locations in the Nashville area all managed under one owner. Each location has an average of 2 walk-in coolers and had been spending approximately \$1400 per month for energy prior to the solution install.

## Overview

Village Market chose Peak Predictive to install their energy saving solution across multiple market locations. The resulting savings not only covered the cost of the regular maintenance and monitoring - but also realized additional cost savings. While the savings were the most exciting feature at the start of their service- the owner found that the SMS notifications and real-time monitoring of the coolers' status also provided invaluable peace of mind on a daily basis.

*"Since the install we've seen great energy savings - but the monitoring also caught several times when cooler doors were left open before our goods could be affected. Knowing I'll be notified anytime something is out of place is a game changer."*

**- Piyush Patel, Owner**

## Fast Facts

- 47% reduction in cooler energy usage recognized within 1 day of installation
- Long term data capture of temperature readings easily accessible through portal
- SMS notifications provide instant awareness of refrigeration failures or open doors
- Included maintenance service enhances the long-term operation of refrigerators

## Get In Touch

(678)699-4636



[www.peakpredictive.com](http://www.peakpredictive.com)

# Energy Savings

Peak Predictive employs a comprehensive suite of energy savings techniques and technology designed to improve cooler efficiency, reduce the temperature fluctuations typical of standard cooler calibration, and extend the life of the machinery



## Sensors

Peak Predictive used a combination of monitoring, temperature adjustment, and proactive alerting, to provide energy savings, as well as a reduced cost of operation on the coolers within the different convenience store locations. Read on to learn more about how we use sensors to minimize energy use.



## Treatment

Brand new coolers operate efficiently in their first year - but wear and tear quickly impacts the efficiency of the system. We apply our patented treatments to the interior and exterior of the units. This allows even older machines to operate at levels comparable to newer units.

# Using Sensors To Minimize Energy Use

Sensors can make a world of difference when synchronized precisely and combined with treatments. Here are a few of the ways we use our sensors to maximize daily cooling and overall life of the machinery.

01

### React to Product Temperatures

Reacting to product temperatures rather than the air temperature prevents unnecessary compressor starts and stops which saves energy and extends the overall lifespan of the coolers.

03

### Adjust for Time of Day

Your products don't always have to be at their optimal consumption temperature - our team can program the compressor receptors to control for the hours of each location to reduce energy costs.

02

### Calibrate to the Products

Not every product needs to be cooled to the default fridge settings - adjusting to the optimal temperature of the goods being stored both saves money and improves the end customer experience.

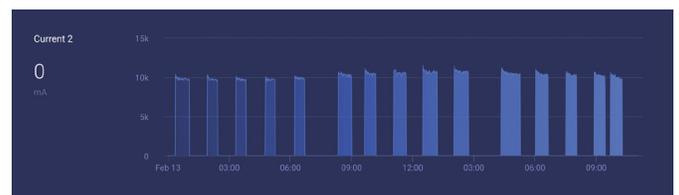
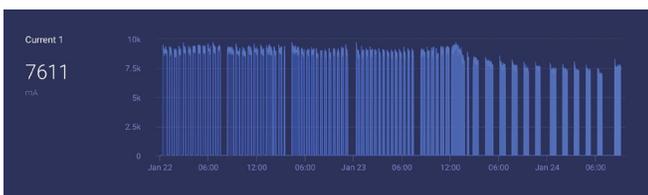
04

### Detect Open Doors

Receive alerts for open doors, machine failures, or any significant temperature increase through our real-time monitoring. This prevents both energy waste and merchandise losses.

# Results

Village Market and it's sister convenience stores saved 22% on their energy bills from install using Peak Predictive's suite of energy saving techniques. From the massive reduction in compressor cycling to increased efficiency using our treatments - the subscription paid for itself immediately and provided peace of mind with ongoing monitoring.



**Pre-Install:** Frequent compressor starts and stops show on the readings from standard calibration - an initial decrease is seen at time of treatment application.

**Post-Install:** Longer periods without compressor starts and stops produce long-term savings and up to 57% increase in compressor life by reducing cycles.