

## Energy Efficiency Pilot Program Savings Summary

Type of Business:

Convenience Store

Number of Locations:

40

Number of EnerG<sup>2</sup> Devices:

80

Number of IntelliHVAC Devices:

120

Number of ASHDC Devices:

80

Engineering Consultants:

HMS Engineering / Tower Engineering

Average Annual EnerG<sup>2</sup> Reduction:

\$536.90

Average Annual IntelliHVAC Reduction:

\$1,085.26

Average Annual ASHDC Reduction:

**\$1,172.73**

Total Annual Cost Reduction:

\$267,001.60

Project ROI:

13.1 Months



Madison Energy worked with Harrys Convenience Stores (TN) to reduce energy costs by \$267,001 annually

Madison was able to prove the results of the project with the following process:

- Connected Dent TOU and EKM meters to record baseline energy consumption
- Install EnerG<sup>2</sup>, IntelliHVAC and ASHDC and record performance energy consumption
- Download data and export to 3<sup>rd</sup> party engineers
- Results were weather normalized and extrapolated

### How It Works:

## EnerG<sup>2</sup>

Retrofits to existing thermostat and provides a more accurate means of temperature measurement by simulating food product via a proprietary gel compound.

## intelliHVAC

Retrofits to 24V terminal and reduces energy via efficient fan control and compressor cycling. Variable timing on the post purge fan captures latent energy while intelligent cycling reducing unnecessary compressor run-time.

## ASHDC

Significantly reduces run-time of cooler/freezer door heater with sensor-based technology that only allows the heaters to run when needed.

