



Energy Efficiency Pilot Program Savings Summary

Type of Business:

Convenience Store

Number of Locations:

16

Number of EnerG² Devices:

32

Number of IntelliHVAC Devices:

32

Number of ASHDC Devices:

32

Engineering Consultants:

HMS Engineering / Tower Engineering

Average Annual EnerG² Reduction:

\$742.35

Average Annual IntelliHVAC Reduction:

\$1,669.47

Average Annual ASHDC Reduction:

\$820.00

Total Annual Cost Reduction:

\$103,418.24

Project ROI:

114 Months



Madison Energy worked with Nouria Convenience Stores (MA) to reduce energy costs by \$ 103,418 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 EnerG², IntelliHVAC and ASHDC and record performance energy consumption
- Download data and export to 3rd party engineers
- Results were weather normalized and extrapolated

How It Works:



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



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.



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

