THE MADISON ENERGY GROUP ENERGY EFFICIENCY SOLUTIONS



Project Proposal:



THE MADISON ENERGY GROUP

Proof of Concept Protocol

<u>Purpose</u>: Demonstrate product performance on specified equipment at multiple pre-determined locations.

Measure Baseline Data:

- I. Identify equipment
- II. Ensure unit is operating properly (normal duty cycle, no visible ice, reaches set point)
- III. Ensure thermostat is accessible and compatible
- IV. Ensure compressor motor is accessible for data logger connection
- V. Record unit information: Type, Mfg, Model #

Compressor Power Source:

- I. At the compressor
 - i. Single phase (hot lead)
 - ii. 3 Phase (1 of 3 hot leads)
- II. Locate power rating (amperage/voltage) on compressor nameplate
- III. Record on datasheet; Phase, Volts and Amps
- IV. Record pilot start date/time on datasheet

Record Baseline Data:

- I. Install EKM Omni-meter V.3
- II. Record Baseline Data 7 days
- III. Validate baseline data

Measure Performance Data:

- I. Install Madison technology
- II. Record install start date/time
- III. Record Performance Data 7 days
- IV. Validate Performance Data
- V. Record pilot ending date/time
- VI. Analyze results



EnerG² was developed to solve the excess energy consumption in walk-in coolers and freezers caused by measuring ambient air temperature which reacts to change more rapidly than actual food temperature which is more stable.

EnerG² retrofits to the existing thermostat air probe and provides a more accurate means of temperature measurement with its specialized gel compound that simulates food product temperature instead of ambient air temperature. Because of the conversion to a more stable temperature curve, we are able to eliminate unnecessary compressor cycles and run time. This translates into average energy savings of 15-25% and maintenance savings of 40-60% or about \$600 per walk-in per year. EnerG² is easy to install, requires no maintenance, has a lifetime warranty and a 12 month ROI.

Guaranteed to Reduce Energy Costs 15 – 30% Reduces Compressor Cycles by 40 – 60% Prevents Wear and Tear Extends Life of Equipment 12 Month ROI Green Restaurant Associated Endorsed Reduced CO2 Emissions – Go Green! Lifetime Warranty



Background and Qualifications for Energy Analysis

Mr. Stewart joined the US Military in 1982 and became a marine engineer involved with mechanical, electrical and structural engineering. After completing his military tour in 1990, he was recruited by Walt Disney World as a Control Specialist and Engineer. During that period Mr. Stewart became extremely interested in energy management systems. After opening Pleasure Island, MGM Studios, Disney Vacation Club, he realized that it was time for new growth in my life and joined Florida's largest Service Company BGSI. Mr. Stewart became certified as a Master Engineer for Refrigeration and Food Equipment.

After years of international endeavours Mr. Stewart entered semi-retirement where he established his consulting company, HMS Engineering Ltd. in 2007.

As a Chief Engineer, Renewable Energy Consultant and Food Equipment expert, he continues to educate and assist many large companies on ways to reduce their energy consumption and increase their bottom line profits. Companies he has supported over the years include Sandals, Couples Resorts, Montego Bay Convention Centre, KFC, Wendy's, Burger King, Moes, Margaritaville, and many others.

The attached Baseline/Performance Test Report was prepared by Mr. Stewart and all findings are based on analysis of the raw data logger information collected onsite and provided to him.

I certify that neither I nor my company (HMS Ltd.) ever receive any compensation which correlates in any manner whatsoever to test report results and that the referenced report findings are accurate and unbiased.

Phillip Stewart

Chief Engineer HMS Engineering Ltd. Referenced Report No. OR5619

Dated 5/6/2019

HMS Engineering

Client : The Madison Energy 5 Hargett St., 4 Raleigh, North Ca	th Floor	Report Print Date:	6-May-19	
Facility / Location: Osteri	.a Romana			
Room/Equip. Tested: Walk-i	n Freezer - EnerG ²			
	Calculat	ion Basis		
Compressor Motor: HP:	0.3 Volts: 23	30 RLA: 12.0	Phase: 3	3
Power Consumption:	2.84 kW Elect	tricity Rate: \$0.146	per kWh	
	Operati	ing Basis		
Projected Run Hours / Yr: Projected Cycles / Yr:	(Without EnerG ²) 7,262 14,326	With EnerG ² 5,587 5,281	Change -1,675 -9,045	% Change -23.1% -63.1%
Ene	ergy Use & Cost	: Savings per Mont	h	
Operating Hours / Month: KWh / Month: Energy Cost / Month	(Without EnerG ²) 605 1,719 \$251	With EnerG ² 466 1,322 \$193	Change -140 -396 -\$58	% Change -23.1% -23.1% -23.1%
Ме	chanical Cost	Savings per Month		
Cycles / Month: Compressor Maintenance Cost/ Month:	(Without EnerG ²) 1,194 \$42	With EnerG ² 440 \$15	Change -754 -\$26	<pre>% Change -63.1% -63.1%</pre>
Combine	ed Energy and M	Mechanical Cost Sa	vings	
Energy & Mechanical Cost / Month:	(Without EnerG ²) \$293	With EnerG ²	Change	<pre>% Change</pre>
Energy & Mechanical Cost / Year:	\$3,511	\$2,501	-\$1,010.21	-28.8%
EnerG ² Return on Investment				

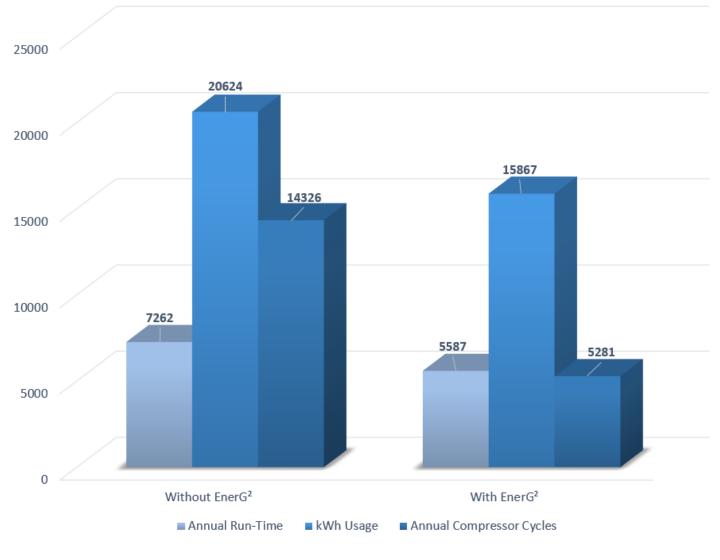
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Months

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				Logger Serial Number:	CT18040079	
				Description:	DENT SMART LOG	
				Elapsed Time Since Reset:	168.00	
				On-Time Since Reset: Percent On Since Reset:	139.27 82.90	
				Connected Load:	No Load Defined	70
				Energy Cost:	Unknown	
				Data Starts:	4/6/2019	12:00:00 PM
				Data Ends:	4/13/2019	12:00:00 PM
				Data Elapsed Time:	168.00	hrs
				Estimated Annual Hours On:	7262	hrs
				Number of Turn Ons:	275	
				Percent On:	82.90	%
				Data On-Time:	139.27	hrs
				Average On-Time:	0.51	
				Longest On-Time: Shortest On-Time:	0.76 <0.01	
				Shortest On-Time:	<0.01	hrs
				Number of Turn Offs:	276	
				Percent Off:	17.10	
				Data Off-Time:	28.73	
				Average Off-Time:	0.10	
				Longest Off-Time: Shortest Off-Time:	0.16 <0.01	
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CT18040079 Data Graph Series | Osteria





Serial Number: CT18040079 Description: DENT SMART LOGGER On-Time Since Reset: 246.42 hrs Off-Time Since Reset: 89.58 hrs

Date	TOU/Day (hrs)
Saturday, April 6, 2019	9.52
Sunday, April 7, 2019	17.39
Monday, April 8, 2019	19.22
Tuesday, April 9, 2019	19.97
Wednesday, April 10, 2019	20.25
Thursday, April 11, 2019	19.36
Friday, April 12, 2019	22.62
Saturday, April 13, 2019	21.88
Sunday, April 14, 2019	14.08
Monday, April 15, 2019	13.56
Tuesday, April 16, 2019	13.69
Wednesday, April 17, 2019	13.91
Thursday, April 18, 2019	15.16
Friday, April 19, 2019	15.85
Saturday, April 20, 2019	7.59



IntelliHVAC was developed based on a utility study (PG&E) which found that all HVAC systems lose approximately 30% of the energy they create. The reason is that the manufacturers' post purge setting is often times not long enough to capture all of the energy that has been created by the unit. That latent energy then dissipates outside and is lost.

IntelliHVAC retrofits to the 24 volt terminal of package and split HVAC units and has two functions: The 1st is an intelligent variable post purge and the 2nd is the intelligent compressor cycling function.

The Intelligent Variable Post Purge monitors the HVAC system and adjusts the length of post purge timing based on the previous compressor cycle. This ensures that we capture all of the energy that has been created and get it into the building so that it hasn't been wasted.

The Intelligent Compressor Cycling Function turns the compressor off for 5 minutes every time it runs for 25 minutes continuously and runs the post purge fan for that same length of time instead. The reason this works is because after 25 minutes of continuous run-time, the cool is fully energized which is to say that the cup is full. It is holding all the energy is can hold but is continuing to run because the thermostat is telling it to and doesn't know any better.

All of this translates into energy savings of 10-30% or approximately \$1,200 per HVAC unit per year. IntelliHVAC is simple to install, requires no maintenance, has a lifetime warranty and a 12 month ROI.



J. Craig Andes, MBA

With close to 40 years of experience, Mr. Andes has been an industry veteran since 1977 and has a keen eye toward efficiency for his customers. Mr. Andes has owned and operated numerous businesses including several mechanical companies, an insulating company, has built numerous structures, and has directed large service-oriented companies. Mr. Andes has also been hired as a consultant by several companies to assist them in their growth and process management.

Currently Mr. Andes owns and operates Tower Engineering in the Raleigh, NC metro market.

After earning his MBA at Union University in Jackson, TN, Mr. Andes is able to merge the real-world practical side of HVAC with financial feasibility and ROI making for good common-sense guidance.

With regard to Madison Energy Group, Mr. Andes serves as an independent, 3rd party consultant and assists the company specifically with the IntelliHVAC technology. Mr. Andes has helped Madison Energy consult with companies such as Starbucks, Darden Restaurants, CBL Properties, and others in helping them to understand the mechanics of their systems as well as the benefits of the IntelliHVAC technology. Mr. Andes also manages the pilot program process, analysis and reporting on behalf of Madison.

The attached reporting is hereby approved and certified by Mr. Andes as accurate in its entirety. Mr. Andes is not compensated in any manner that is based on test results.

J. Craig Andes

of Ciang Andes

Tower Engineering Owner / HVAC Engineer Date: 5/6/2019

50) 1	TOWER
	Engineering, Inc

Report Date: 3/14/2019

Craig Andes HVAC Engineering Contractor

On Behalf of:	The Madison Energy Group
For Client:	Osteria Romana

Location: Monroe CT

Kwh Rate: 0.146

					Baseline			Performance
		Start Date	Install Date	Time	kWh Consumed	End Date	Time	kWh Consumed
Area:	RTU 1	4/6/2019	4/13/2019	12:00PM	1,142.8	4/20/2019	12:00 PM	933.7
Meter #	27513							
				kWh/Month	4,897.71		kWh/Month	4,001.57
				kWh/Yr	59,588.86		kWh/Yr	48,685.79

RTU S	ummar	у
kWh Diff./Period		209.1
kWh Diff./Yr		10,903.07
% Change		18%
Savings/Yr	\$	1,591.85

Location:

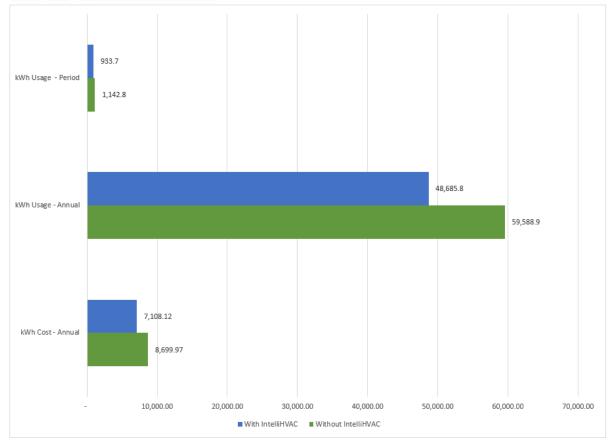
	Start Date	Install Date	Time	Baseline kWh Consumed	End Date	Time	Performance kWh Consumed
Area:							
Meter #							
		kV	Vh/Month	-		kWh/Month	-
		kV	Vh/Year	-		kWh/Year	-

RTU	U Summary	
kWh Diff./Period	1	0.00
kWh Diff./Yr		-
% Change	-	
Savings/Yr	\$	-

	Project Sun	nmary	
Total kWh/Yr Reduced		10,903.07	
Average Annual Savings	\$	1,591.85	
Normalized for Season	\$	2,034.03	
Projected ROI		5.89	Months



EKM METERING 🌢 🗲 🖌



EKM METERING 🌢 🗲 🤞

EKM-OmniMeter v.3 Osteria RTU 1 LogFile Total kWh Usage for Period: 2076.4

Date	Kilowatt Hour	Avg. Voltage	Avg. Amps	Avg. Watts	Avg. Cosl, (Power Factor)
4/6/2019	96.5	120.7	27.2	3283	LO.87
4/7/2019	172.5	120.2	27.4	3293	LO.85
4/8/2019	143.1	120.9	27.0	3264	LO.87
4/9/2019	149.8	120.8	26.8	3237	LO.85
4/10/2019	152.6	121.4	27.2	3302	LO.88
4/11/2019	176.4	120.9	27.2	3288	LO.88
4/12/2019	169.0	120.8	27.6	3334	LO.87
4/13/2019	165.7	119.6	26.8	3205	LO.86
4/14/2019	134.2	119.3	27.2	3245	LO.86
4/15/2019	122.4	119.5	26.6	3179	LO.85
4/16/2019	130.9	120.3	26.4	3176	LO.85
4/17/2019	142.6	119.8	26.6	3187	LO.86
4/18/2019	129.3	119.6	26.6	3181	LO.85
4/19/2019	129.0	119.4	26.4	3152	LO.87
4/20/2019	62.4	118.3	26.6	3147	LO.86



Proof of Concept Performance Summary

Program Duration - 4/6/2019 - 4/20/2019

\$	1,010.21			
\$	854.10	1		
	2	units	\$	1,708.20
			\$	17,082.00
		8.42		Months
\$	1,591.85			
\$	2,034.03	1		
	1	units	\$	2,034.03
			\$	20,340.30
		5.89		Months
ance				
\$	311.85	1		
\$	3,742.23	I		
\$	37,422.30	1		
	8.76	I		
	\$ \$ \$ ance \$ \$	\$ 854.10 2 \$ 1,591.85 \$ 2,034.03 1 ance \$ 311.85 \$ 3,742.23 \$ 37,422.30	\$ 854.10 2 units 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	\$ 854.10 2 units - \$ \$ 4 1,591.85 2,034.03 1 units - \$ \$ 2,034.03 1 units - \$ \$ ance 3 311.85 \$ 3,742.23 \$ 37,422.30



Proof of Concept Performance Summary

Program Duration - 4/6/2019 - 4/20/2019

Proposal

Based on the energy and mechanical savings demonstrated in the results of the pilot program and those results being accompanied by a cumulative Return on Investment of approximately 12 months, The Madison Energy Group proposes the following:

Single Pay Option - Full Rollout

EnerG ² offered at \$599 per Unit Investment of \$	1,198.00	
IntelliHVAC offered at \$999 per Unit Investment of \$	999.00	
Installation	\$350.00	
Tax @ 7.25%	\$184.66	
Total Project Cost (All Inclusive)		\$ 2,731.66

6 Month Lease Option	
Project Monthly Savings	\$ 311.85
6 Monthly Payments of	\$ 497.82
Monthly Cash Flow	\$ (185.97)

<u>Post Data Validation</u> - Secondary metering program to validate energy savings <u>Utility Invoice Verification</u> - Audit of utility invoicing to ensure accuracy of expenses <u>Project Rebates</u> - Obtain any incentives offered by the utility



Limited Lifetime Replacement Warranty

Guarantor: The Madison Energy Group, located at 5 West Hargett St. 4th Floor Raleigh, NC 27601 will fulfill and administer the obligations of this performance guarantee.

This performance guarantee certifies that The Madison Energy Group's (manufacturer) EnerG² will perform satisfactorily during the guarantee period in accordance with its original energy saving standards. If the unit is defective when received or becomes defective, it will be replaced in accordance with this Limited Lifetime Warranty/Performance Guarantee. Please call The Madison Energy Group at 919-443-2404 Option 2 if this occurs.

The performance guarantee does not cover negligent, fraudulent and/or intentional damage. If the EnerG² unit is damaged, another EnerG² unit will be sent immediately as a replacement. For coverage to be valid, the client must register with The Madison Energy Group and provide proof of purchase in the form of a paid invoice from either The Madison Energy Group or one of its qualified, contracted distributors. The unit must also e installed properly along with manufacturer specifications.

This performance guarantee is effective from the date of purchase, provided that adequate proof of purchase is maintained, the product is properly registered (see below) and the product is installed properly. The Madison Energy Group must be notified immediately of any defects in the unit with all records being made available for inspection. Defects will be verified. This guarantee is exclusive and in lieu of any other performance guarantee or warranty of merchantability or fitness for a particular purpose.

In no event shall The Madison Energy Group be liable for any special, indirect, incidental or consequential damages. This guarantee, covering the replacement of the EnerG² unit is void is the product covered by the guarantee has been subject to: intentional damage, alteration, tampering, acts of God and other insurance perils, faulty installation or claims covered by insurance or service contract. The coverage applies only to EnerG² and no other product. Claims not submitted in accordance with the terms and conditions of this guarantee are void. Damage by unreasonable or unintended use, neglect, improper service or other causes not arising of defects in material or workmanship are not covered.

To Make a Claim: For service please contact The Madison Energy Group support line at 919-443-2404

To Register: In order for coverage to be valid, you must register your EnerG² within 30 days of purchase at www.themadisonenergygroup.com. Coverage is non-transferable.

Phone: 919-443-2404 Fax: 919-800-3700 INFO@THEMADISONENERGYGROUP.COM



5 West Hargett St. • 4th Floor Raleigh, NC 27601 www.themadisonenergygroup.com



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In no event shall The Madison Energy Group be liable for any special, indirect, incidental or consequential damages. This guarantee, covering the replacement of the IntelliHVAC unit is void is the product covered by the guarantee has been subject to: intentional damage, alteration, tampering, acts of God and other insurance perils, faulty installation or claims covered by insurance or service contract. The coverage applies only to IntelliHVAC and no other product. Claims not submitted in accordance with the terms and conditions of this guarantee are void. Damage by unreasonable or unintended use, neglect, improper service or other causes not arising of defects in material or workmanship are not covered.

To Make a Claim: For service please contact The Madison Energy Group support line at 919-443-2404

To Register: In order for coverage to be valid, you must register your IntelliHVAC within 30 days of purchase at www.themadisonenergygroup.com. Coverage is non-transferable.

Phone: 919-443-2404 Fax: 919-800-3700 INFO@THEMADISONENERGYGROUP.COM



5 West Hargett St. • 4th Floor Raleigh, NC 27601 www.themadisonenergygroup.com



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