



Presenter

Ruben Carrillo

Energy Engineer

- √ 10+ years of experience working with Nevada businesses
- Consulted with clients across multiple industries such as hotels, restaurants, supermarkets and non-profit organizations
- ✓ Las Vegas Valley native and an alumnus of the University of Nevada, Las Vegas
- ✓ Bachelor of Science in Electrical Engineering



Agenda

- Industry energy usage
- Control strategies
- Equipment considerations
- Maintenance and upgrades
- Case Studies
- NV Energy Programs



Industry Energy Usage





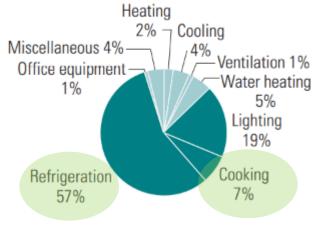


- On average use 50 kWh per square foot per year
- Equates to annual energy cost of more than \$4 per square foot
- For a 50,000 sq. ft. market, energy costs can run more than \$200,000 per year
- Causes 1,900 tons of CO₂
- Large commercial refrigerator used in grocery stores can consume up to 17,000 kWh/year

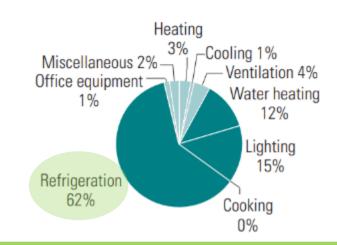


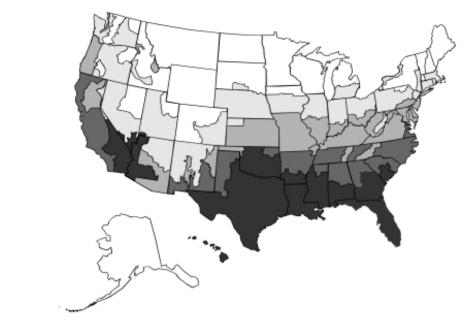
Supermarket Equipment Energy Usage Review

Climate zone 2



Climate zone 5





Note: CDD = cooling degree day; HDD = heating degree day

Climate zones

- Zone 1 is less than 2,000 CDD and greater than 7,000 HDD.
- Zone 2 is less than 2,000 CDD and 5,500–7,000 HDD.
- Zone 3 is less than 2,000 CDD and 4,000–5,499 HDD
- Zone 4 is less than 2,000 CDD and less than 4,000 HDD.
- Zone 5 is 2,000 CDD or more and less than 4,000 HDD.

Source: U.S. Energy Information Administration





- Use 5-7 times more energy per square foot than other commercial buildings
- High-volume QSRs can use up to 10 times more energy per square foot than other commercial buildings
- Example: typical electric deep fat fryer uses more than 18,000 kWh
- A large commercial freezer can use up to 38,000 kWh/year



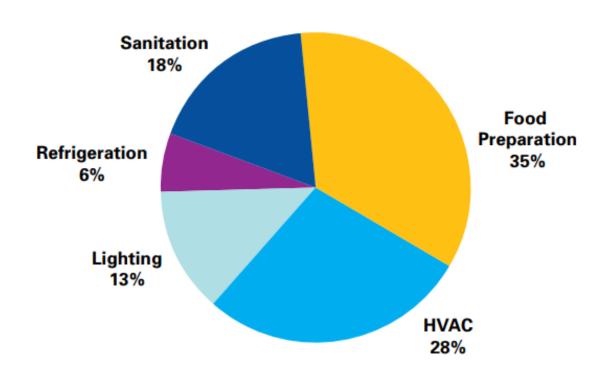
Restaurant Equipment Energy Usage Review

Appliances vary in energy usage

- Refrigeration
 - Refrigerators
 - Ice Makers
 - Freezers
- Cooking
 - Steam Cookers
 - Ovens
 - Fryers
 - Griddles
 - Broilers
 - Ranges
 - Food Holding Cabinets
- Sanitation
 - Dishwashers

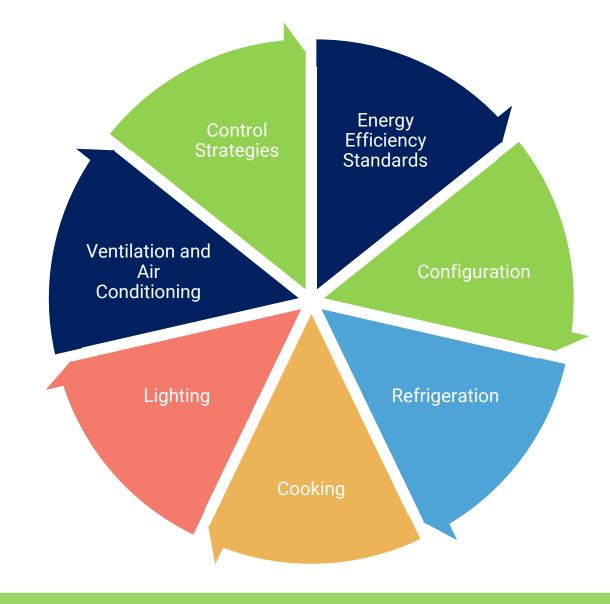
Example of the Average Energy Consumption in a Full-Service Restaurant

(British Thermal Units [Btu])



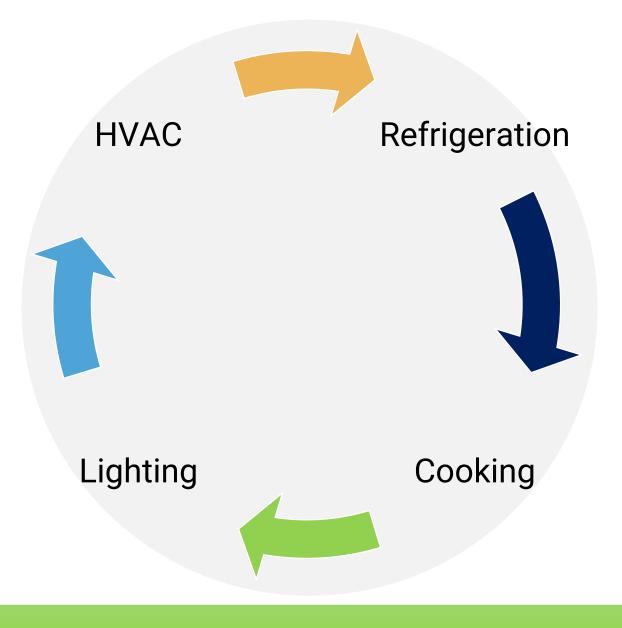


New Construction and Remodeling Efficiency Considerations





How It All Works Together







Control Strategies

Commercial Refrigeration Controls

Adaptive Controls

Speed Controllers

Timers & Dimmers

On-demand Defrost

Night-time Set Back Anti-sweat
Heater
Controls

Wireless Technology Leak Detection



Occupancy Lighting Controls Refrigerated Cases



OCCUPANCY CONTROLS
CAN BE ADDED WHEN
USING LED CASE
LIGHTING



POTENTIAL OF UP TO ADDITIONAL 10% IN ENERGY SAVINGS



INTERIOR CASE LIGHTS TURN ON WHEN WALKING DOWN THE ISLE, SAVING ADDITIONAL ENERGY



ADDITIONALLY, REFRIGERATION COOLING SAVINGS & EXTENDED LAMP LIFE



Floating Head Pressure Controls

What is it?

 Controls that allow head pressures and therefore condensing temperatures to float for refrigerated grocery cases

How does it save energy?

- Continuously adjusts the head pressure based on outside air temperatures as opposed to a manual setting
- Cooler outside air = energy savings
- One study reported an average of 23% compressor energy savings





Equipment Considerations

Refrigeration & Freezers

 Account for 25% of energy consumption in food service facilities





Lifetime Savings For Efficient Commercial Refrigerators

TABLE 1. LIFETIME SAVINGS FOR EFFICIENT COMMERCIAL REFRIGERATOR MODELS			
Performance	Best Available	ENERGY STAR	Less Efficient
Maximum Daily Energy Consumption	1.13 kWh/day	1.89 kWh/day	4.44 kWh/day
Annual Energy Use	412 kWh	690 kWh	1,621 kWh
Annual Energy Cost	\$36	\$60	\$142
Lifetime Energy Cost	\$299	\$584	\$1,371
Lifetime Energy Cost Savings	\$1,073*	\$788*	=====

^{*}The Lifetime Energy Cost Savings number is rounded up; it is not in error.



Approximately 10% of display cases are medium-temperature, open cases that are good candidates for retrofit

Measures often include doors, fan/fan motors, lighting and controls

50% - 80% reduction in system energy consumption

Retrofit of Open Display Cases



Purchase and Install Considerations

ENERGY STAR

• Commercial refrigerators that earn the ENERGY STAR today are, on average, 20% more energy efficient than other products on the market

Compressor Location

- Bottom-mounted compressors tend to operate more efficiently
- Top-mounted compressors should be considered in commercial kitchens where a lot of flour is used

Door Configuration

- Solid doors are better insulated and easier to clean
- Glass doors allow kitchen staff to see the contents of the unit, which may eliminate unnecessary opening and closing
- Half-height doors tend to be more energy efficient

Additional Features

• Casters allow the units to be easily moved for maintenance and cleaning, make sure they lock!



Maintenance and Usage

- Anti-sweat heaters should be checked regularly and turned off when not needed
- ✓ Make sure gaskets and auto closers are maintained and in good working condition
- Ensure regular cleanings for coils
- Maintain adequate space and airflow around unit
- Set defrost timers



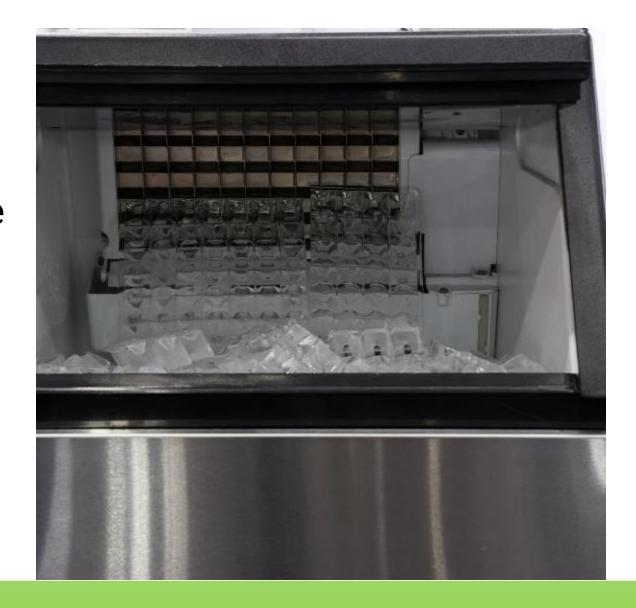
Ice Machines

Savings Fact

ENERGY STAR are on average
 15% more energy efficient

New machines EE technology

- Harvest-assist devices
- High efficiency compressors
- Fan motors and water pumps





Ice Machine Maintenance and Usage

Inspect and clean coils regularly

2

Keep bin lids closed

3

Adjust purge water timer

4

Install timers to reduce daytime electricity demand

5

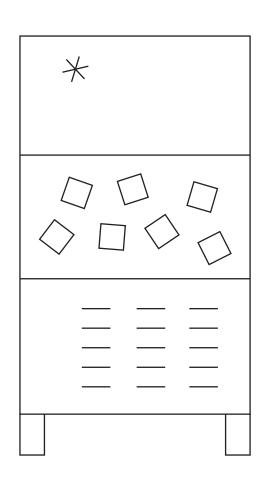
Shift ice production to night-time mode when possible



Ice Machines

Purchase and Install

- Choose an appropriate size
 - Larger machines tend to be more efficient
- Avoid open-loop, water-cooled machines as they are more expensive to operate





Cooking Appliances

 Cooking appliances account for about 12% of the electricity bill in a typical restaurant





Steam Cookers

- ENERGY STAR certified steamers have a sealed cooking cavity that consumes 60% less energy than a traditional open design system
- ENERGY STAR connectionless models can also save 90% or more water when compared with standard steamers
- ENERGY STAR steam cookers may incorporate better insulation, improved gaskets and connectionless designs to reduce energy and water consumption



Steam Cookers Maintenance and Usage



Use timer instead of manual modes



Reduce idle time



Perform regular maintenance



Maintain door gaskets



Oven Types

Combination Ovens

 ENERGY STAR models are approximately 30% more energy efficient than standard models

Convection Ovens

 ENERGY STAR models are approximately 20% more energy efficient than standard models



Ovens Upgrade Benefits

Improved insulation and gaskets

Digital control features manage energy more efficiently

Higher production capacity

Improved air circulation

Faster and more uniform cooking processes

Reduction in heat loss

Improved working environment



Maintenance and Usage



Reduce idle time and turn off back up ovens when possible



Cook with full loads









Fryers

energy efficient than standard models

fryers that are up to
35% more energy
efficient than standard
models



Fryers Maintenance and Usage



Turn off back up fryers when possible



Reduce idle time



Calibrate controls



Perform regular maintenance



Griddles

ENERGY STAR models are 10% more energy efficient than standard models

Seek improved thermostatic controls

Advanced burner design

Highly reflective plate materials

Improved uniformity of temperature across the griddle plate and a higher production capacity

May have variations in efficiency, production capacity and temperature uniformity





Griddles Maintenance and Usage

01

Reduce idle time

02

Calibrate controls

03

Replace missing control knobs



Broilers

Searing heat requires a great deal of energy

Broilers have simple, non-thermostatic controls

Broiler can be one of the most energy-intensive cooking appliance in the kitchen





Broiler Maintenance and Usage

ManageTurn OffReduceReplaceManage preheat timeTurn off unused sectionsReduce idle time knobsReplace missing knobs



Food Holding Cabinets



ENERGY STAR HFHCs typically feature improved insulation



Insulated ENERGY STAR holding cabinet is approximately 70% more energy efficient than a standard model



HFHC Maintenance and Usage

Turn Off
Time
Replace
Shut off overnight
Use timer
Replace missing or broken knobs



Sanitation

 ENERGY STAR certified commercial dishwashers can lower energy bills.



Dishwashers

Can be one of the most expensive pieces of equipment in your kitchen

ENERGY STAR are on average 40% more energy efficient

Select features conserve energy



Dishwasher Maintenance and Usage

Turn Off	Perform	Replace	Run	Use
Shut off overnight	Regular maintenance	Torn wash curtains	Full loads	Auto mode for conveyor style to save energy



Lighting

 Lighting accounts for about 13% of the energy used in a typical restaurant.



Lighting Facts

ENERGY STAR certified lighting uses at least 75% less energy than traditional bulbs

LEDs last 10-50 times longer than incandescent lighting

Energy-efficient lighting is available in a variety of styles, sizes and colors



Lighting Maintenance and Usage

Manage

Brightness and color

Reduce

Heat added by inefficient lamps

Control

Occupancy sensors in storage areas, break rooms and restrooms

Install

LED exit signs



HVAC

 HVAC accounts for roughly 30% of the energy consumption in food service facilities.



HVAC Facts

Electric cooking uses less heat, resulting in lower air conditioning unit temperatures and improves heat controls with superior low heat control

Energy-efficient equipment provides non-energy benefits: improved operating performance, more-uniform cooking, increased comfort

Minimizing ventilation fan speed can result in large energy savings



HVAC Maintenance and Usage

Properly Size

HVAC equipment sized to your space will reduce unnecessary energy costs

Service

Check your HVAC system regularly to ensure it runs at peak performance

Control

Add demand control ventilation to adjust exhaust based on need



Kitchen Hood Ventilation Controls

How does it work?

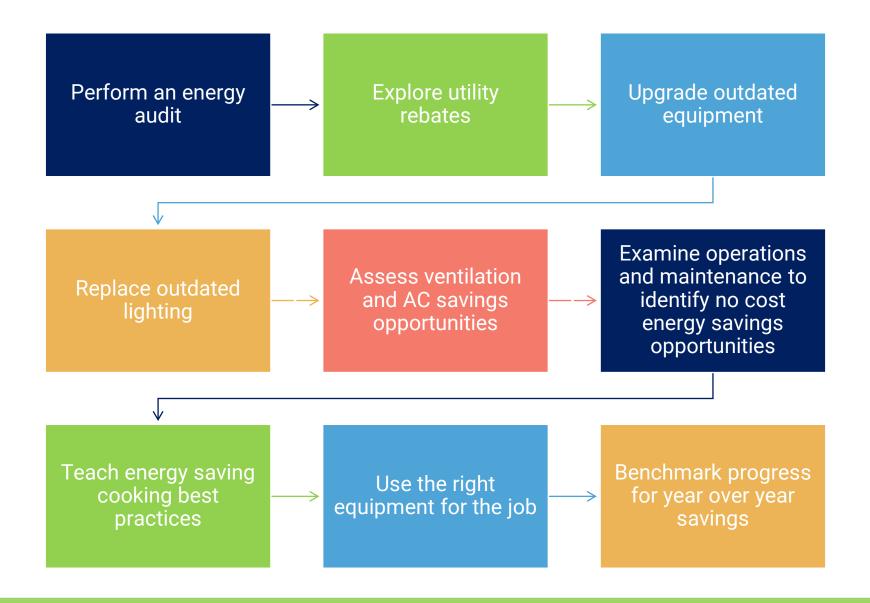
- Modulates fan speed based on demand in response to the presence and level of cooking activity
 - Temperature only
 - Temperature and opacity sensor
 - Infrared cooking activity sensor

Fan energy and HVAC savings

System savings between exhaust and makeup air of 20% to 50% have been reported



How to Start Saving Energy & Money







Case Studies

Case Study: Americold Logistics Las Vegas

Major renovation of multiple refrigeration warehouses

Implementation approach:

- Refrigeration efficiency upgrades
- LED lighting: replace metal halide and high-pressure sodium fixtures with LED fixtures controlled by occupancy sensors





Case Study: Whole Foods Market Henderson

Refrigeration retrofit

Implementation approach:

 Installed 27 anti-sweat heater controls on frozen food glass cases and 32 EC motors in the walk-in coolers



Energy: 51,630 kWh/yr

Incentive earned:

· \$2,960



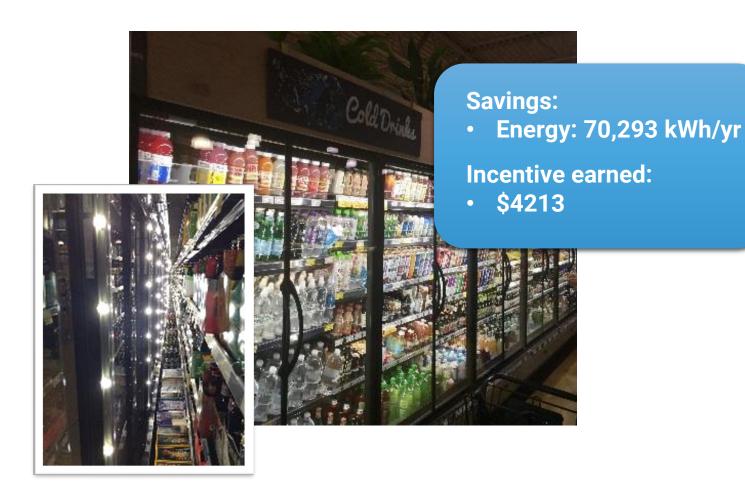


Case Study: Whole Foods Market Reno

Refrigeration retrofit

Implementation approach:

- Installed doors on 110 feet of refrigeration cases
- Retrofitted fluorescent case lighting with LED Lighting





Case Study: Save Mart Supermarkets Las Vegas

Refrigeration retrofit

Implementation approach:

- Installed anti-sweat heaters
- Installed lighting controls
- Installed floating head and suction pressure controls





Additional Projects

A Las Vegas casino/hotel retrofit its ice machines with CEE Tier 2 equipment

- Estimated annual kWh savings: 20,538
- Rebate received: \$1,550

A restaurant replaced its fryer with two high-efficiency fryers

Estimated annual kWh savings: 2,331

A hotel retrofitted an older steam cooker with a high-efficiency electric steam cooker

- Estimated annual kWh savings: 11,166
- Rebate received: \$750





Upcoming Training

Attend the webinar to learn more about Business Energy Services

Compressed Air & HVAC Systems

Tuesday, June 28th

10:00 AM - 11:30 AM

Business Energy Services Incentives

Business Energy Services

What We Offer

- Application Support
- Technical Services
- Free Classroom Education & Training
- Non-Profit Agency Grants
- Small Business Project Incentives
- Instant Discounts
- Retrofit Project Incentives
- New Construction Incentives



Customer Benefits

- Reduced Energy Expenses
- Reduced Carbon Footprint
- Annual Cash Savings
- Improved Comfort





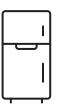
Instant Discounts

No application Needed











Eligible Products

Lighting	Incentive/unit	
T8 4' Linear LED*		\$4
T8 2' U-Bend LED*		\$4
1'x4' LED Illuminated Pan	el	\$10
& Troffers Containing LEI	O Strip Lights	\$10
2'x2' LED Illuminated Pan	el	\$10
& Troffers Containing LEI	<u> </u>	Ş10
2'x4' LED Illuminated Pan	el	\$10
& Troffers Containing LEI	O Strip Lights	Ş10

Kitchen Ir	ncentive/unit
High Efficiency (HE) Fryer	\$200
Large Vat Fryer	\$200
HE Griddle	\$300
Convection Oven	\$350
Combination Oven	\$1,000
Steam Cooker	\$750
HE Holding Cabinets, Full Siz	ze \$300
HE Holding Cabinets, 3/4 Siz	ze \$250
HE Holding Cabinets, 1/2 Siz	ze \$200

ES = Energy Star, CEE = Consortium for Energy Efficiency, SD = Solid Door, GD = Glass Door, cf = Cubic Feet

Refrigeration	Incentive/unit
Ice Machine ES/CEE I <300	\$50
Ice Machine ES/CEE I 300-500	\$75
Ice Machine ES/CEE I 500-1000	\$125
Ice Machine ES/CEE I 1000-1500	\$200
Ice Machine ES/CEE I >1500	\$250
Ice Machine ES/CEE II <300	\$100
Ice Machine ES/CEE II 300-500	\$150
Ice Machine ES/CEE II 500-1000	\$250
Ice Machine ES/CEE II 1000-1500	\$400
Ice Machine ES/CEE II >1500	\$500
Refrigerator SD ES < 15 cf	\$50
Refrigerator SD ES ≤ 15 cf V < 30 c	ef \$75
Refrigerator SD ES ≤ 30 cf V < 50 c	ef \$90
Refrigerator SD ES ≥ 50 cf	\$125
Freezer SD ES < 15 cf	\$60
Freezer SD ES ≤ 15 cf V < 30 cf	\$75
Freezer SD ES ≤ 30 cf V < 50 cf	\$80
Freezer SD ES ≥ 50 cf	\$200

Refrigeration	Incentive/unit
Refrigerator GD ES < 15 cf	\$50
Refrigerator GD ES ≤ 15 cf V < 30	cf \$75
Refrigerator GD ES ≤ 30 cf V < 50	cf \$90
Refrigerator GD ES ≥ 50 cf	\$125
Freezer GD ES < 15 cf	\$60
Freezer GD ES ≤ 15 cf V < 30 cf	\$75
Freezer GD ES ≤ 30 cf V < 50 cf	\$80
Freezer GD ES ≥ 50 cf	\$200

Lighting

- **Bulb and Driver** City Electric Supply **Facility Solutions Group** Main Electric Supply Company Grainger Wedco Crescent Electric Supply Company • Bulbman, Inc. Regency Lighting **Vegas Electric Supply** MCOR Lighting **Key Power Solutions Green Planet Corporation** Platt Electric Supply
 - Have Lights Will Travel
 - Discount Lighting
 - Gexpro
 - GoGreenLighting.com, Inc.
 - Nedco Supply
 - Sierra Nevada Lighting, LLC
 - Codale Electric Supply
 - HD Supply Facilities Maintenance
 - mySupplier
 - USA LED
 - Bulbtronics
 - Commercial Lighting Specialties
 - Las Vegas Lighting
 - Capitol Light

Instant Discount

Distributors

Commercial Kitchen & Refrigeration

Open to apply for all commercial kitchen & refrigeration distributors

Instant Discount Website

BUSINESS ENERGY SERVICES INSTANT DISCOUNT

No applications. No waiting. Big savings.

Our Business Energy Services offers a PowerShift instant discount to NV Energy eligible business customer accounts and contractors on the purchase of qualifying lighting and commercial kitchen equipment.

Visit a participating distributor to make your purchase and receive your PowerShift instant discount. Your discount is automatically deducted from the purchase price, so there's no paperwork for you to complete. It's that easy.

Get details on all the incentives and participating distributors below.







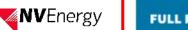
nvenergy.com/BES > Incentives & No Cost Offers > Instant Discounts



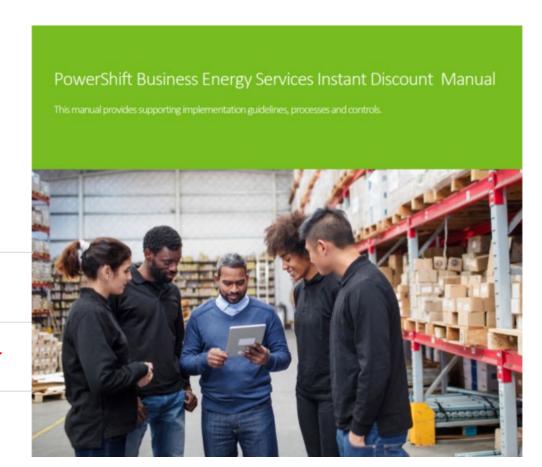
Instant Discount Website

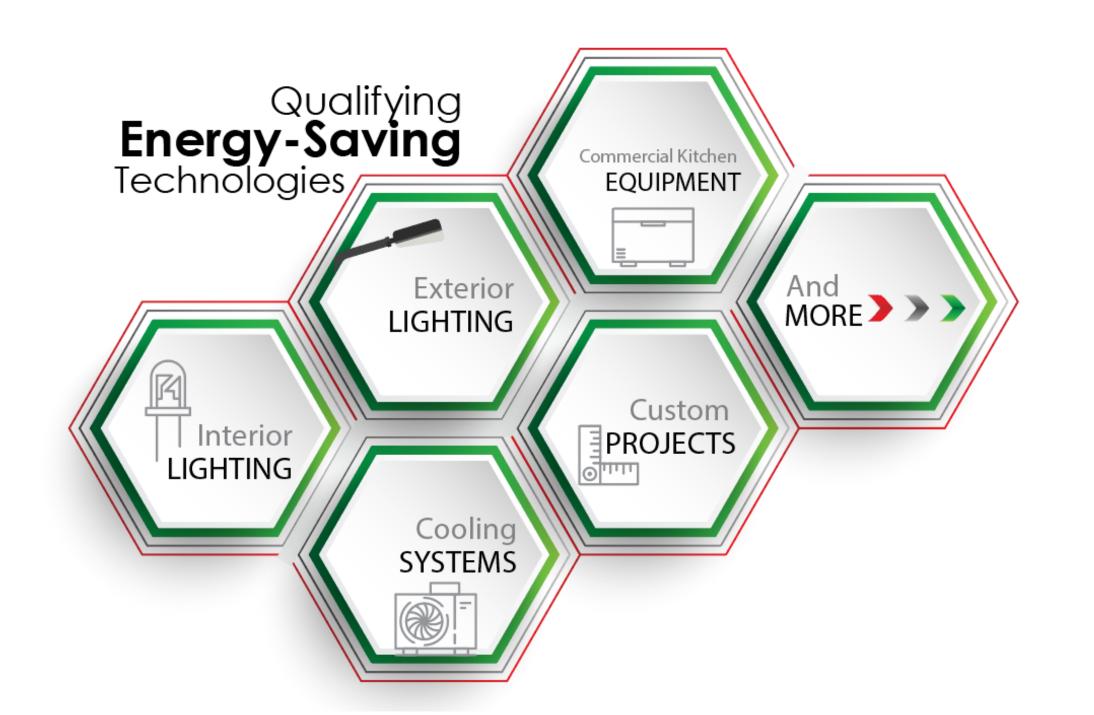
Website includes:

- Eligible product types
- Participating distributor listing
- FAQs
- Operations Manual
 - + Participating Distributors
 - + Frequently Asked Questions



FULL PROGRAM DETAILS







Applying for Incentives

Retrofit and New Construction

Three Easy Steps to Saving



- Submit Pre-Application
- Subject to Pre Inspection
- Pending Pre-Approval

- 90 Day Clock Starts
- Energy Advisor Checkins

- Submit Final Application
- Subject to Post-Inspection
- Receive Final Approval & Payment

Save Energy & Money, Year After Year

THE APPLICATION PROCESS

More Ways to Save

Business Energy Services 2022 Southern Retrofit Incentive Summary

Measure	Size/Type	Incentive	
Interior Lighting Lamp/Fixture	Interior	Watt Reduced	\$0.25
Interior LED Lamp, Hotel Guestroom	Interior	Watt Reduced	\$0.10
Delamping T8 Lamps	4-foot lamp	Lamp	\$3.00
Standard T8 to RW T8	4-foot lamp	Lamp	\$1.00
LED Exit Sign		Sign	\$15.00
LED Refrigerated Case Lighting		Lamp	\$25.00
LED Channel Sign	≤ 2 Feet	Letter	\$10.00
LED Channel Sign	> 2 Feet	Letter	\$25.00
Occ. Sensor on Refrigerated Case	Enclosed	Door	\$12.00
Occ. Sensor on Refrigerated Case	Open	LF of Case	\$4.00
Occupancy Sensors	Wall Box	Sensor	\$12.00
Occupancy Sensors	Ceiling Mount	Sensor	\$30.00
Occupancy Sensors	HB T5/T8 Sensor	Sensor	\$20.00
Occupancy Sensors	HB LED Sensor	Sensor	\$14.00
Daylighting Controls		Watt Controlled	\$0.10
Bi-Level Stairwell/Hall /Garage LED Fixtures with Sensors		Watt Controlled	\$0.40
Retrofit-Exterio	or and Garage	Lighting	
Garage LED Replacing HID 24/7	24/7	Watt	\$0.25
V2 10 00 00 00 00 00 00 00 00 00 00 00 00	Operation 12 Hour	Reduced Watt	5
Exterior Replacing HID 12 Hr	Operation	Reduced	\$0.20
Garage High Wattage Screw-In CFL	24/7 Operation	Watt Reduced	\$0.20
Exterior High Wattage	12 Hour	Watt	60.15
Screw-In CFL	Operation	Reduced	\$0.15
LED Channel Sign	≤ 2 Feet	Letter	\$10.00
LED Channel Sign	> 2 Feet	Letter	\$25.00
Garage Hard-Wired CFL < 29W		Fixture	\$25.00
Garage Hard-Wired CFL > 30W		Fixture	\$40.00
Exterior Hard-Wired CFL < 29W		Fixture	\$15.00
Exterior Hard-Wired CFL > 30W		Fixture	\$30.00

Retrofit - Commercial Kitchen				
Measure	Unit	Incentive		
Ventilation Control - Retrofit	HP	\$350.00		
Ventilation Control - New Hood	HP	\$300.00		
Anti-Sweat Heater Controls	Door	\$40.00		
EC Motors: Walk-in Boxes	Motor	\$40.00		
EC Motors: Refrigerated Cases	Motor	\$30.00		
Evaporator Fan Controller	Controller	\$35.00		
ENERGY STAR* Tier II Vending Machine Refurbishment Kit	Kit	\$75.00		
Vending Machine Controls	Controller	\$90.00		
Snack Machine Controls	Controller	\$15.00		
Floating Head Pressure Controls	HP	\$35.00		
Reach-In Cooler Controls	Controller	\$30.00		

Measure		Unit	Incentive	
Single & Three Phase High Eff. Transformer		Per Unit	Varies ¹	
Single & Three Phase High Eff. Transformer - incremental		Per 0.01% Above Qual.	Varies ¹	
High Eff. UPS - Single & Multi-Nor	rmal	Output kW	Varies ²	
	- Miscell		73,123	
Escalator Motor Controllers (EMC	2)	HP	\$20.00	
VSD Pool Pump & Scheduling Cor		HP	\$150.00	
VSD Air Compressor Replacemen		НР	\$45.00	
Compressed Air Engineered Nozz	les	Nozzle	\$10.00	
High Efficiency Battery Chargers	-	Charger	\$225.00	
Demand Control Ventilation – Pa Garage	rking	HP	\$90.00	
Demand Control Ventilation – Int Spaces	erior	Per 1,000 sq ft	\$50 per 1,000 sq fi	
Irrigation Nozzles		Nozzle	\$3.00	
Irrigation Sprinklers	6	Sprinkler	\$2.50	
Irrigation Regulators		Regulator	\$3.50	
Irrigation Gaskets		Gasket	\$2.00	
Retr	ofit - Coo	ling		
Air-Cooled Units:				
(<65 kBtuh), Qual SEER	i i	Ton	\$12.00	
(<65 kBtuh), 1 Additional SEER		Ton	\$8.00	
(≥65 & <135 kBtuh), Qual EER		Ton	\$12.00 \$10.00 \$18.00	
(≥65 & <135 kBtuh), 1 Additiona	I EER	Ton		
(≥135 & <240 kBtuh), Qual EER		Ton		
(≥135 & <240 kBtuh), 1 Addition	al EER	Ton	\$10.00	
(≥240 kBtuh) Qual IEER	9	Ton	\$18.00	
(≥240 kBtuh) 1 Additional IEER		Ton	\$10.00	
Water-Cooled Units, Qual EER		Ton	\$25.00	
Water-Cooled Units, 1 Additional	EER	Ton	\$10.00	
PTAC/PTHP, Qual EER	2	Ton	\$50.00	
PTAC/PTHP, 1 Additional EER	- 1	Ton	\$20.00	
Programmable Thermostat		Each	\$25.00	
Window Film	1	5q. Foot	\$0.70	
VSD on HVAC Fans and Pumps		HP	\$50.00	
Air Side Economizers		Ton	\$25.00	
Retro	ofit – Cus	tom		
		al Energy Savings (kWh)	
Custom Incentive	\$0.05 /kWh			
Retro-Commissioning	1,22,000	5 /kWh		

Please refer to 2022 Business Energy Services Retrofit Specifications document for complete specifications Please note that 4' T8 LED and 1'x4', 2'x2' & 2'x4' LED TROFFERS Illuminated Panels and some kitchen equipment are no longer eligible for incentives though this program. Please see Business Energy Services Instant Discount Program at www.nvenergy.com/bes for details.



LEARN MORE

CALL | 800.342.6335 EMAIL | bes@nvenergy.com

WEB | www.nvenergy.com/bes

¹Incentive varies by transformer size, see application.

²Incentive varies by UPS size and input dependency characteristics, see application.

AB54 Impacts on Retrofit Incentives

Interior Guest Room LED Lamp/Fixture								
(Can be used for guest room incandescent, CFL, fluorescent T5, LED lamps or fixture retrofits)								
INCENTIVE:	INCENTIVE: \$0.10/Watt Reduced							
Pre	Post		Pre	9	Pos	st		
Pre Fixture Description Example: 13W CFL	Post Fixture Description Example: 5W LED Lamp	Location Example: Bathroom, floor lamp or entry	# of Lamps or Fixtures	i amn or	# of Lamps or Fixtures	I amn or	Total Watts Reduced	Calculated Incentive
Oue to AB54, the retrofit of A-19, general service, screw-in incandescent lamps are available only for this measure AND the baseline for all such lamps is as ollows: 40W Inc = 10W 60W Inc = 18W 75W Inc = 24W 100W Inc = 36W								

- A-19 incandescent lamp baselines are only eligible under guest room measures on the retrofit application.
- In guestroom measure group, adjusted baselines are to be used for A-19 lighting.



More Ways to Save

Business Energy Services 2022 Southern New Construction Incentive Summary

Measure	Unit	Incentive
Interior Lighting Power Density, 10% Better Than IECC 2009	kW	\$350.00
Interior Lighting Power Density, 5% Better Than IECC 2012	kW	\$250.00
Interior Lighting Power Density, 5% Better Than IECC 2018	kW	\$250.00

New Construction - Performance Based / Whole Building			
Approach	Annual Energy Savings (kWh)		
Performance Based - 10% Better Than IECC 2009	\$0.05 per kWh		
Whole Building - 10% Better Than IECC 2009	\$0.05 per kWh		
Performance Based - 5% Better Than IECC 2012	\$0.05 per kWh		
Whole Building - 5% Better Than IECC 2012	\$0.05 per kWh		
Performance Based - 5% Better Than IECC 2018	\$0.05 per kWh		
Whole Building - 5% Better Than IECC 2018	\$0.05 per kWh		

Please refer to 2022 Business Energy Services New Construction Specifications document for complete specifications

New Construction - Cooling / Misc.						
Measure	Unit	IECC 2009, 2012 & 2018 Incentive	IECC 2012 8 2018 - C406 Incentive			
Air- Cooled Units			7.			
(<65 kBtuh), Qual SEER	Ton	\$12.00	\$14.00			
(<65 kBtuh), 1 Additional SEER	Ton	\$8.00	\$10.00			
(≥65 & <135 kBtuh), Qual EER	Ton	\$12.00	\$14.00			
(≥65 & <135 kBtuh), 1 Additional EER	Ton	\$10.00	\$12.00			
(≥135 & <240 kBtuh), Qual EER	Ton	\$18.00	\$22.00			
(≥135 & <240 kBtuh), 1 Additional EER	Ton	\$10.00	\$12.00			
(≥240 kBtuh) Qual IEER	Ton	\$18.00	\$22.00			
(≥240 kBtuh) 1 Additional IEER	Ton	\$10.00	\$12.00			
Water-Cooled Units, Qual EER	Ton	\$25.00	\$30.00			
Water-Cooled Units, 1 Additional EER	Ton	\$10.00	\$12.00			
PTAC/PTHP, Qual EER	Ton	\$60.00	\$60.00			
PTAC/PTHP, 1 Additional EER	Ton	\$24.00	\$24.00			
Flat Plate Heat Exchanger ²	HX Tons	\$15.00	N/A			
Variable Speed Drive	per HP	\$60.00	N/A			

¹Incentives for projects subject to Section C406 of IECC 2012 & IECC 2018.

²Flat Plate Heat Exchangers are required by IECC 2012 & IECC 2018 and thus not eligible for incentive.

Measure	Unit	Incentive
HE Fryer	Vat	\$200.00
arge Vat Fryer	Vat	\$200.00
HE Griddle	Griddle	\$300.00
Convection Oven	Oven	\$350.00
Combination Oven	Oven	\$1,000.00
Steam Cooker	Steamer	\$750.00
HE Holding Cabinets, Full Size	Cabinet	\$300.00
HE Holding Cabinets, 3/4 Size	Cabinet	\$250.00
HE Holding Cabinets, 1/2 Size	Cabinet	\$200.00
Ventilation Control - New Hood	HP	\$300.00
Evaporator Fan Controller	Controller	\$35.00
Ice Machine ES/CEE I<300	Machine	\$50.00
Ice Machine ES/CEE 300-500	Machine	\$75.00
Ice Machine ES/CEE 500-1000	Machine	\$125.00
Ice Machine ES/CEE 1000-1500	Machine	\$200.00
Ice Machine ES/CEE >1500	Machine	\$250.00
Ice Machine CEE II <300	Machine	\$100.00
Ice Machine CEE II 300-500	Machine	\$150.00
Ice Machine CEE II 500-1000	Machine	\$250.00
Ice Machine CEE II 1000-1500	Machine	\$400.00
Ice Machine CEE II >1500	Machine	\$500.00
Refrigerator SD ES < 15 cf	Refrigerator	\$50.00
Refrigerator SD ES 15 ≤ V < 30 cf	Refrigerator	\$75.00
Refrigerator SD 30 ≤ V < 50 cf	Refrigerator	\$90.00
Refrigerator SD ES ≥ 50 cf	Refrigerator	\$125.00
Freezer SD ES < 15 cf	Freezer	\$60.00
Freezer SD ES 15 ≤ V < 30 cf	Freezer	\$75.00
Freezer SD E5 30 ≤ V < 50 cf	Freezer	\$80.00
Freezer SD ES ≥ 50 cf	Freezer	\$200.00
Refrigerator GD ES <15 cf	Refrigerator	\$50.00
Refrigerator GD ES 15 ≤ V < 30 cf	Refrigerator	\$75.00
Refrigerator GD 30 ≤ V < 50 cf	Refrigerator	\$90.00
Refrigerator GD ≥ 50 cf	Refrigerator	\$125.00
Freezer GD ES < 15 cf	Freezer	\$60.00
Freezer GD ES 15 ≤ V < 30 cf	Freezer	\$75.00
Freezer GD ES 30 ≤ V < 50 cf	Freezer	\$80.00
Freezer GD ES ≥ 50 cf	Freezer	\$200.00

LEARN MORE

CALL | 800.342.6335

EMAIL | bes@nvenergy.com

WEB | www.nvenergy.com/bes



How to Find a Contractor

Navigate to nvenergy.com/bes

Incentives & No-Cost Offers



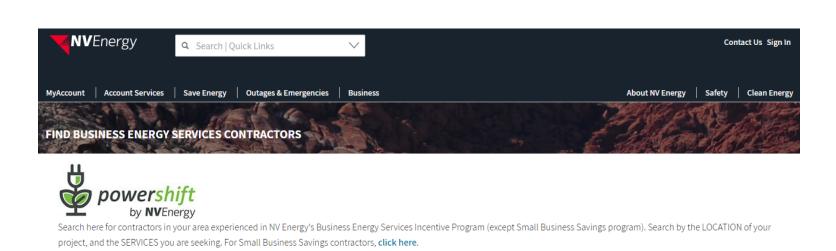
Reduce operating expenses with incentives for energy efficiency and demand response equipment, and qualified custom projects that cut your energy costs.



Find a Contractor

Locate contractors in your area who are knowledgeable about Business Energy Services incentives.



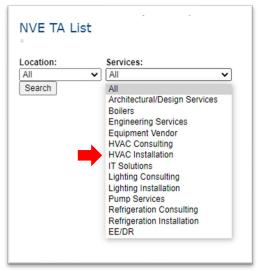


NVE TA List





Search here for contractors in your area experienced in NV Energy's Business Energy Services Incentive Program. Search by the LOCATION of your project, and the SERVICES you are seeking.



Early Involvement Bonus

Earn a 20% bonus on retrofit applications

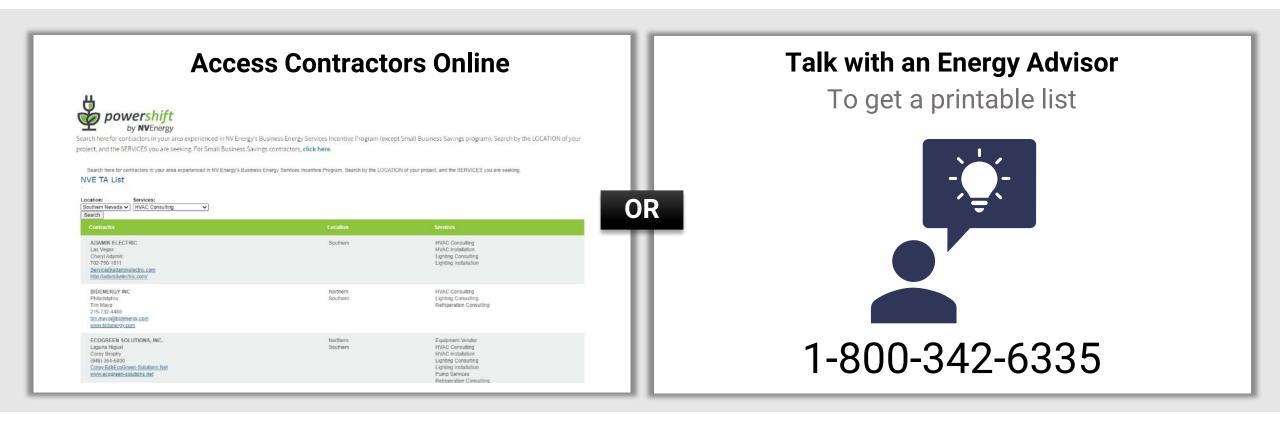
North South
Applied to first 20M kWh Applied to first 50M kWh

Projects must be completed and final documents received by August 1, 2022 to qualify. Bonus is first come, first served, applied to retrofit projects submitted for NV Energy business customers.

Small business, non-profit, instant discount and new construction projects do not qualify.



Ready to Start a Project?







Talk with an Energy Advisor 1-800-342-6335

Email bes@nvenergy.com

Thank You! We look forward to working with you.