



# Hawaii Energy

YOUR CONSERVATION & EFFICIENCY PROGRAM

How We're Working with  
You to...

Save Energy  
Strengthen the Economy  
Protect our Environment

Keith Block

COMMERCIAL PROGRAMS  
OPERATIONS MANAGER



**Hawaii Energy**  
YOUR CONSERVATION & EFFICIENCY PROGRAM



[hawaiienergy.com](http://hawaiienergy.com)

# HAWAII ENERGY IS:

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- ✦ The energy conservation and efficiency program for Hawaii, Honolulu and Maui counties.
- ✦ Administered by Leidos Engineering, LLC under the direction of the Hawaii Public Utilities Commission.
- ✦ Funded by electric ratepayers. We're funded by you.
- ✦ Helping to achieve Hawaii's goal of reducing electricity usage by 30% by 2030



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# WHAT WE DO

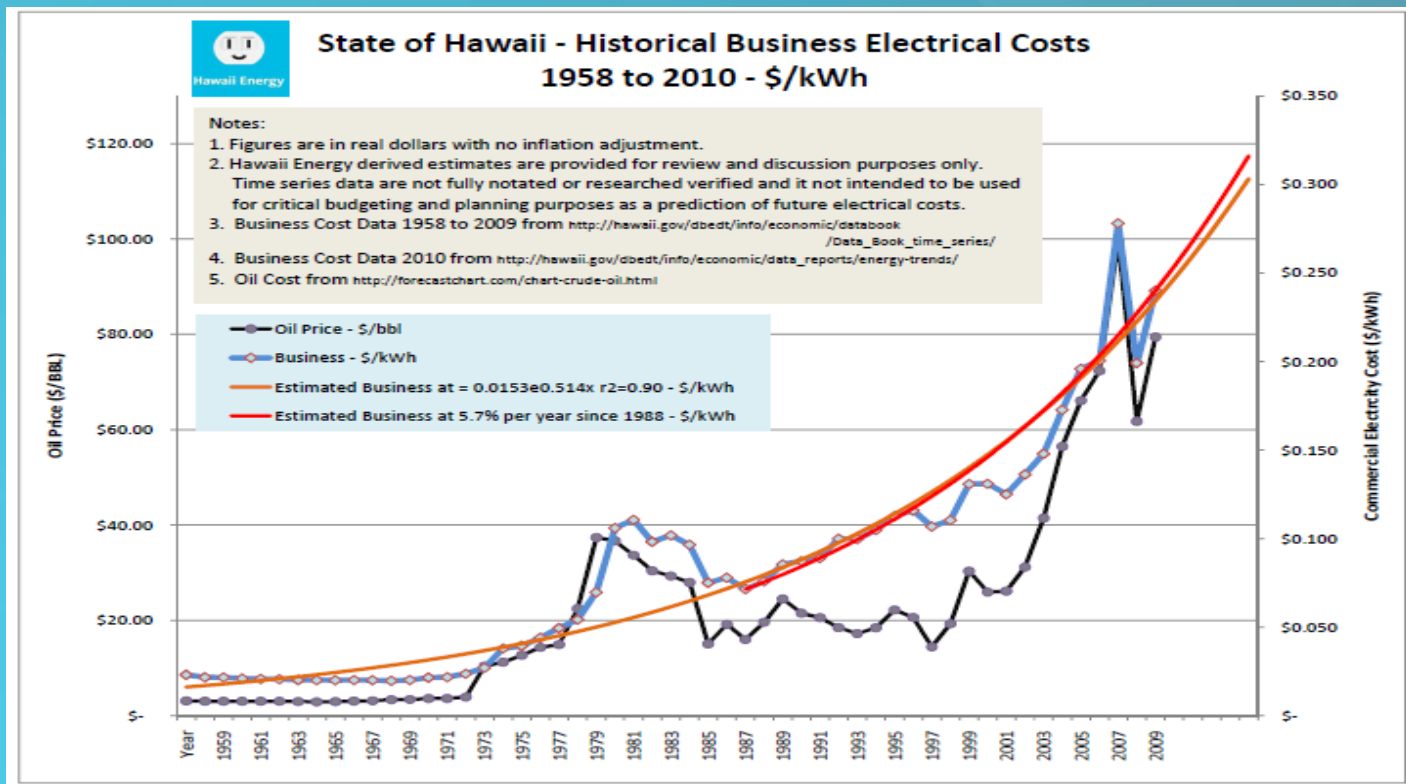
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- ✦ Help you save energy and money on your electric bill
- ✦ Provide rebates and incentives for you to adopt energy efficiency measures. Examples of this include:
  - Changing out your old inefficient fluorescent lighting to more efficient fluorescents or LEDs
  - Installing the most efficient Air Conditioning System when replacing your current system
- ✦ Support and provide education and training opportunities, ranging from teachers to energy industry professionals



# WHY IS THIS IMPORTANT?

- ✦ We have the nation's highest electricity rates – 3 times the national average



# HIGHLIGHTS FROM LAST PROGRAM YEAR

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**\$10,354,214** In incentive paid to business customers

**42.4** Million kWh saved per year

**\$11.9** million in customer savings per year



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# HAWAIIENERGY.COM

The screenshot shows a web browser window with the URL [www.hawaiienergy.com/incentives](http://www.hawaiienergy.com/incentives). The page features a blue header with the Hawaii Energy logo and navigation links for Home, Business, and various resources. A sidebar on the left lists categories under 'For Your Business' and 'Incentives'. The main content area is titled 'Incentives' and provides information about energy-efficient equipment incentives, including a link to a full list of business incentives. Below this, there are sections for 'Building Envelope Improvements' and 'Customized Projects'.

Hawaii Energy | Incentives - Google Chrome

www.hawaiienergy.com/incentives

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Hawaii Energy

FOR YOUR Home

FOR YOUR Business

Education & Outreach  
News & Events  
Find a Contractor

Search About Resources

> For Your Business > Incentives

For Your Business

Incentives

- Building Envelope Improvements
- Customized Projects
- Energy Services & Maintenance
- ENERGY STAR® Appliances
- HVAC
- Lighting
- Pumps & Motors
- Submetering
- Water Heating
- Additional Incentives

Business Solutions

Small Business Direct Install Lighting

## Incentives

Learn how Hawaii Energy can provide you with incentives for purchasing and installing energy-efficient equipment in your business that will cut your electricity costs for years to come.

### Find the Incentive That's Right for You

Incentives for conservation and efficiency projects are available to all commercial electric utility ratepayers of Hawaii, Honolulu and Maui counties. They are available on a first-come, first-served basis and are subject to availability of funds, restrictions, change and/or discontinuation without advance notice

[CLICK HERE FOR A FULL LIST OF OUR BUSINESS INCENTIVES.](#)

#### Building Envelope Improvements

Making energy-efficient changes to the exterior of your building (e.g. window film and cool roof) can reduce your energy consumption and save you money on your electric bill.

#### Customized Projects

Do you have ideas for other technologies that will save energy?

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# Business Incentives Summary

For questions, call 839-8880 (Oahu) or toll-free 1-877-231-8222 (Neighbor Islands).  
[www.hawaiienergy.com](http://www.hawaiienergy.com)



TECHNOLOGY	INCENTIVE					
Air-cooled packaged & split air conditioning system	\$200 per ton					
	Unit Size (BTU/hr)	Unit Size (Tons)	IECC 2006 (kW/ton)	EER/ SEER*	Hawaii Energy Premium Efficiency (kW/ton)	Qualifying EER/SEER*
	Package < 65,000	< 5.42	1.36	*9.7	1.159	*11.2
	Splits < 65,000	< 5.42	1.33	*10.0	1.113	*11.5
	65,001 to 135,000	> 5.42 to 11.25	1.17	10.3	0.990	11.8
	135,001 to 240,000	> 11.25 to 20.0	1.24	9.7	1.052	11.2
	240,001 to 760,000	> 20.0 to 63.33	1.26	9.5	1.074	10.9
	> 760,000	> 63.33	1.30	9.2	1.109	10.6
Variable Refrigerant Flow (VRF) air conditioning	New Construction \$250 per ton			Retrofit \$300 per ton		
Water cooled chiller (*See enhanced chiller program worksheet for details.)	*Enhanced \$90 per ton			Standard \$35 per ton		
	Type	Size	IECC 2006 IPLV (kW/ton)	Hawaii Energy Premium Efficiency IPLV (kW/ton)		
	Reciprocating	All	0.70	0.60		
	Rotary Screw and Scroll	< 150 tons	0.68	0.58		
		150 – 300 tons	0.63	0.54		
		> 300 tons	0.57	0.48		
	Centrifugal	<150 tons	0.67	0.57		
		150 – 300 tons	0.60	0.51		
> 300 tons		0.55	0.47			
Variable Frequency Drive (VFD) control	Air Handler \$50 per hp (for retrofit only)			Chilled and Condenser Water Pumps \$80 per hp (for retrofit only)		
Electronically Commutative Motor (ECM) and speed control	Commercial Refrigeration \$85 per motor and control			Fan Coil Application \$55 per motor and control		
Consortium for Energy Efficiency (CEE) qualified premium efficient motors Visit <a href="http://www.CEE1.org">www.CEE1.org</a> for a list of motors.	1 – 200 hp: \$10 per hp (Submit customized application for motors greater than 200 hp or not listed and meet one band above NEMA Premium Efficiency level.)					
VFD pool pump system	\$225 per hp					
VFD domestic water pump system	\$3,000 plus \$80 per hp reduction for the system (for retrofit only)					
Solar thermal water heating system	\$250 per ton of de-rated installed capacity (12,000 BTU/hr)					
Heat pump water heater	\$100 per ton (12,000 BTU/hr) on high efficiency models					
Customized incentives & lighting (not to exceed 50% of incremental project cost)	Measure of Life	Annual Reduction in Energy Use Incentive	Evening Peak Demand Incentive 5 p.m. to 9 p.m.		Day Peak Demand Incentive (HVAC Only) 12 p.m. to 2 p.m.	
	≤ 5 years	\$0.08/kWh	\$125/kW		\$100/kW	
	> 5 years	\$0.12/kWh	\$125/kW		\$100/kW	

All incentives are subject to change without prior notification or upon discretion of the Hawaii Public Utilities Commission.  
 Hawaii Energy is a ratepayer-funded conservation and efficiency program administered by SAC under contract with the Hawaii Public Utilities Commission serving the islands of Hawaii, Lanai, Maui, Molokai and Oahu.  
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TECHNOLOGY	INCENTIVE			
Whole Building Assistance (Pre-Approval Required) <ul style="list-style-type: none"><li>• Energy audits</li><li>• Energy study assistance</li><li>• Energy study project implementation</li><li>• Design assistance</li></ul>	<b>Energy Audits</b> 85% up to \$5,000 3¢ per ft <sup>2</sup> for lights/HVAC -PLUS- 5¢ per ft <sup>2</sup> for specialty and process loads	<b>Energy Study Assistance</b> 50% up to \$15,000 Capped at 15¢ per ft <sup>2</sup>	<b>Energy Study Project Implementation</b> 100% up to \$25,000 Must perform projects with less than 2 yr. paybacks up to 50% of study cost	<b>Design Assistance</b> 50% up to \$15,000 <ul style="list-style-type: none"><li>• Energy modeling</li><li>• New technology</li><li>• Scenario reviews</li></ul>
ENERGY STAR® office refrigerator	\$125 when you purchase a new ENERGY STAR® refrigerator and recycle your old model			
Vending machine (occupancy sensor)	\$50 per system			
Office water cooler digital timer	\$15 per timer (privately owned)			
Window film (not shaded or on north-facing windows)	85¢ per ft <sup>2</sup> Solar heat gain coefficient must be less than 0.435 or shading coefficient less than 0.5.			
Cool roof technology	20¢ per ft <sup>2</sup> Only for the roof areas over air-conditioned space.			
Garage exhaust ventilation CO control system	12¢ per annual kWh saved (up to 85% of project cost) Pre and post-metering required.			
Sub-metering for master-metered condominium and small businesses	\$150 per tenant unit (billed)			
Hotel guest room thermostat control with occupancy sensor	\$100 per thermostat			
T12 to Standard T8 lamp with electronic ballast (for retrofit only)	2' lamp 3' lamp	\$5 per lamp \$6 per lamp	4' lamp 8' lamp	N/A N/A
4' Reduced wattage 25W and 28W T8 lamps with high performance electronic ballasts Visit <a href="http://www.CEE1.org">www.CEE1.org</a> for list of lamps & ballasts.	From T12 (40/36W) \$10 per lamp (for retrofit only)		From T8 (32W) \$5.50 per lamp (new & retrofit)	
Linear fluorescent de-lamping Must include removal of all disconnected ballast lamp and lamp holder (tombstone).	Lamp Size 2' lamp 4' lamp 8' lamp	With Reflectors \$5.00 \$10.00 \$15.00		Without Reflectors \$2.50 \$5.00 \$10.00
Lighting occupancy sensor May not have a manual "ON" override switch.	\$20 per automatic infrared or ultrasonic sensor			
Compact Fluorescent Lamp (CFL)	\$2.00 per lamp (for retrofit only) Lamps must be purchased from a commercial lighting distributor/supplier			
Pulse-start metal halide fixture	Less than 100 Watt \$25 per fixture	100 to 200 Watt \$35 per fixture	Greater than 200 Watt \$50 per fixture	
Induction lighting fixture	Customized			
LED exit sign Must replace entire fixture.	\$20 per Exit sign (for retrofit only)			
LED vertical reach-in refrigerated case lamps and kits	\$30 per 4-foot lamp		\$75 per 5-foot or 6-foot retrofit kit	
LED ENERGY STAR® approved non-dimmable lamp Visit <a href="http://www.energystar.org">www.energystar.org</a> for list of approved products.	<b>New Construction</b> \$2.50 per decorative and omni-directional lamp including A-19 shape \$6.00 per MR16, PAR20, 30 or 38 lamp		<b>Retrofit</b> \$5 per decorative and omni-directional lamp including A-19 shape \$9.00 per MR16, PAR20, 30 or 38 lamp	
LED ENERGY STAR® approved dimmable lamp Must be compatible with the dimming controller.	<b>New Construction</b> \$5 per decorative and omni-directional lamp including A-19 shape \$7.50 per MR16, PAR20, 30 or 38 lamp		<b>Retrofit</b> \$7.50 per decorative and omni-directional lamp including A-19 shape \$10 per MR16, PAR20, 30 or 38 lamp	
Stairwell bi-level dimming fluorescent	\$50 per fixture			

## SPECIFICALLY FOR LED TECHNOLOGIES NOT LISTED ABOVE:

LED lamps & fixtures that are not ENERGY STAR® rated are handled by our customized incentive process to ensure persistence of energy savings and cost effectiveness.

Qualifications include but are not limited to:

- IES LM79 testing results are required for power, photometric, color temperature and power input vs. light output.
- IES LM80 testing results are required for lumen maintenance.
- UL or ETL listing is required for safety.
- 3-year warranty with a clear description of how defects are determined and replacements are handled.
- Acknowledgment that the lamps must be in place for 5 years. If replaced with higher wattage consumption technologies, the incentive must be refunded.
- Payback must be 6 months or longer.


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## New Commercial Cool Roofs Incentive Worksheet

**Hawaii Energy**  
Effective July 1, 2012; Subject to availability of funds.  
Hawaii Energy is a ratepayer-funded conservation and efficiency program administered by SAIC under contract with the Hawaii Public Utilities Commission serving the islands of Hawaii, Lanai, Maui, Molokai, and Oahu.

Account Name: \_\_\_\_\_ Project / Building Name: \_\_\_\_\_

### Cool Roof Incentive Summary

A cool roof reflects and emits the sun's heat back to the sky instead of transferring it to the building below. This helps keep your roof cooler and reduces your cooling load and air conditioning needs. Hawaii Energy is offering an incentive of **\$0.20 per square foot**. Payment of incentives is not guaranteed as funds are limited, and amounts and offerings are subject to change. All incentive program terms and conditions apply.

**ELIGIBILITY**

- Incentive amount is based on the square footage over conditioned space that is cooled by an air conditioning system from an electric source.
- Due to heat transfer properties, concrete roofs are not eligible.
- Roofs that are shaded over 75% are not eligible
- Product must meet CRRC eligibility and be listed on the CRRC website ([www.coolroofs.org](http://www.coolroofs.org))

### Cool Roof Incentive Worksheet Instructions

#### Required Documentation Checklist

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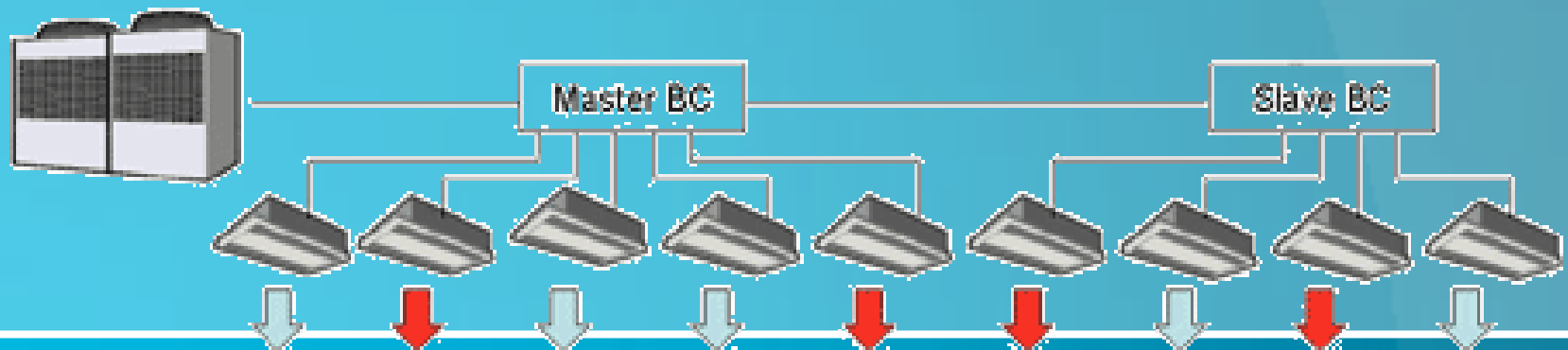
# ENERGY STAR® LED LAMPS

- Energy Star® or DLC Approved LED Lamps
  - A19 - \$5
  - MR16 & PAR Lamps - \$9
- Dimmable and Compatible with Controls
  - A19 - \$7.50
  - MR16 & PAR Lamps - \$10



# VARIABLE REFRIGERANT FLOW

- HVAC units with inverter driven variable speed compressors, air handler fans, condenser fans and high efficiency motors provide 20-35% reduction in energy use.
- \$300 per ton



# REFRIGERATED CASE LED LIGHTING

- Reach-In Refrigerated Case Lamps
- 4, 5 and 6 foot Lamps
- Can save up to 45%
- \$30 per 4-Foot Lamp
- \$75 per 5-Foot or 6-Foot Lamp



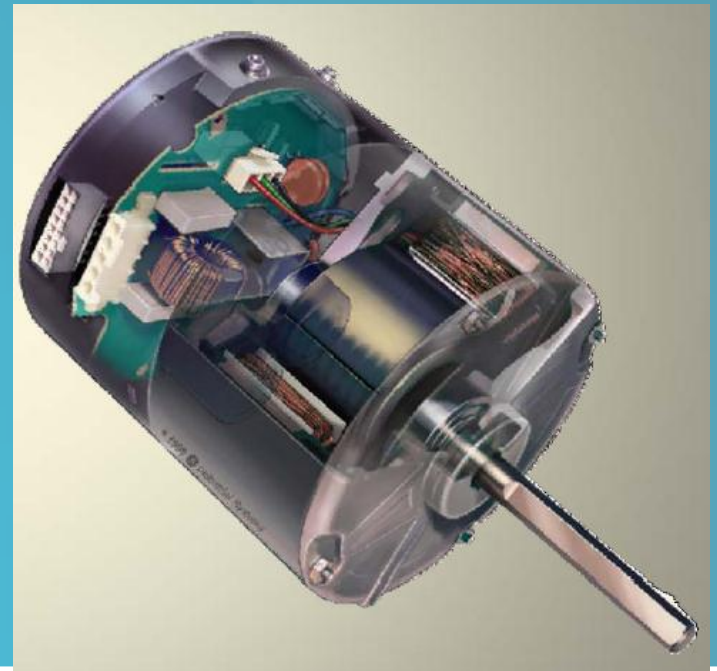
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# REFRIGERATED CASE ECM MOTOR/CONTROLLER RETROFITS

- Dramatic improvement over older shaded pole motors commonly used in refrigeration systems.
- Can save 30-40%
- \$85 per motor with controls



# GARAGE ON-DEMAND VENTILATION CONTROL

- There are opportunities to reduce runtimes 60-90% with active CO monitoring systems.
- \$0.12/kWh



# CONDOMINIUM & SMALL BUSINESS SUB-METERING

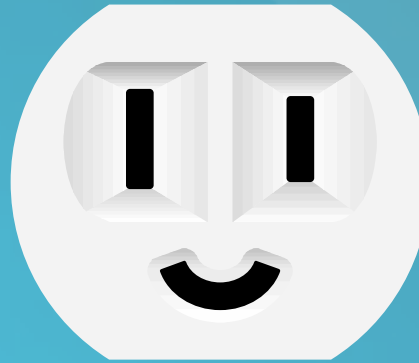
- Program will provide incentives and education for the installation of billing sub-meters
- Tenants within a master metered facility
- Motivation and ability to directly benefit from energy efficiency improvements and behaviors
- \$150 per submetered unit



# CUSTOMIZED

Measure Life	Reduction in Energy Use Incentive	Evening Peak Demand Reduction	Day Peak Demand Reduction (HVAC Only)
		(5-9 p.m. Weekdays)	(12-2 p.m. Weekdays)
≤ 5 years	\$0.08/kWh	\$125/kW	\$100/kW
> 5 years	\$0.12/kWh	\$125/kW	\$100/kW





# Mahalo!

**Stay Connected:**

Oahu: **1-808-537-5577**

Neighbor Islands: **1-877-999-7242**

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