



# Lighting Incentive Worksheet

## Hawaii Energy

Effective July 1, 2011; 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: \_\_\_\_\_

### Fluorescent T8 Lamps with Electronic Ballast

#### Lamps

- Both T8 lamps and electronic ballasts must be installed
- 265 mA lamps in lengths of 2, 3, and 8 feet (straight or U-bend)
- HO (high output) 400 mA lamps will also be accepted.
- Lamp efficacy must be greater than or equal to 82 lumens per watt.
- 20,000-hour lamp life (3 hours per start), 15,000-hour lamp life for 8' lamps.
- Color Rendering Index: 75 CRI minimum.

#### Ballasts

- Operate at 20 kHz or greater.
- Rated a Class P thermal protection.
- Rated a Class A sound level.
- Have a minimum power factor of 90%.
- Have a maximum of 1.7 crest factor.
- Have a total harmonic distortion (THD) not to exceed 20% (equal to magnetic ballasts).
- Comply with FCC Rules and Regulations, Part 18 for both EMI and RFI.
- Have a reduced lamp flicker maximum of 10%.

T8 Lamp Length	Fixture Qty	Ballast Qty	Lamp Qty	Incentive Per Lamp	Total Incentive
2' T8 Lamps				\$5.00	
3' T8 Lamps				\$6.00	
8' T8 Lamps				\$7.50	

### Fluorescent Low Wattage (LW) T8 Lamps with High Performance Electronic Ballast

#### LW T-8 Fluorescent Lamps

- Lamps must be qualified under CEE Specifications
- Lower LW T8 must be a 25 watt or 28 watt T8.
- Initial lamp efficacy must be equal to or greater than 93 lumens per watt.

#### T-8 High Performance Electronic Ballasts (HPEB)

- Ballast must be qualified under CEE Specifications.
- Visit [www.cee1.org](http://www.cee1.org) for the listing of ballast.
- Commercial Lighting, Qualifying Lamps, Ballasts

T8 Lamp Length	Fixture Qty	Ballast Qty	Lamp Qty	Incentive Per Lamp	Total Incentive
T12 to LW T8				\$15.00	
32 W T8 to LW T8				\$7.50	

### De-Lamping of Linear Fluorescent T8 Fixtures WITH Reflector Kits

#### Reflector Kits

- Minimum reflective efficiency of 90% for reflector.
- Process **MUST** include removal of all disconnected ballasts, lamps, and lamp holders (tombstones) from fixture.

Length of Lamps removed	Fixture Qty	Lamp Qty Removed	Incentive Per Lamp	Total Incentive
2' Lamps			\$15.00	
4' Lamps			\$15.00	
8' Lamps			\$15.00	

### De-Lamping of Linear Fluorescent T8 Fixtures WITHOUT Reflector Kits

- De-Lamping** • Process **MUST** include removal of all disconnected ballasts, lamps, and lamp holders (tombstones) from fixture.

Length of Lamps removed	Fixture Qty	Lamp Qty Removed	Incentive Per Lamp	Total Incentive
2' Lamps			\$7.50	
4' Lamps			\$7.50	
8' Lamps			\$7.50	

### Occupancy Sensors (Automatic Lighting Controls)

- Occupancy Sensor Lighting Control** • May not have a manual "ON" override switch

Sensor Installed	Controlled Fixture Qty	Total Connected Watts	Sensor Qty	Incentive Per Sensor	Total Incentive
Infrared				\$20.00	
Ultrasonic				\$20.00	



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### Compact Fluorescent Lamps (CFLs) and Cold Cathode Fluorescent Lamps (CCFLs)

#### CFLs and CCFLs

- Wattage under 30 watts must be ENERGY STAR®
- Must be UL® tested.
- Pin Mounted or GU-24 Fixtures must be hardwired.
- Cold Cathode lamps could be dimming and non-dimming.

CFL and CCFL Wattage	Lamp Qty	Incentive Per Lamp	Total Incentive
CFL & CCFL < 16W		\$2.50	
CFL & CCFL 16 – 26W		\$2.50	
CFL & CCFL > 26W		\$2.50	

### Exit Signs

**LED Exit Signs** • Must replace entire fixture to qualify for incentive.

Type of Exit Sign	Fixture Qty	Incentive Per Sign	Total Incentive
LED Exit Sign		\$25.00	

### Induction Lighting Systems (lamp, fixture and generator)

Lamp Wattage	Fixture Qty	Incentive Per Fixture	Total Incentive
Induction ≤100W		\$25.00	
Induction > 100W		\$75.00	

### Pulse-Start Metal Halide Fixtures

Lamp Wattage	Fixture Qty	Incentive Per Fixture	Total Incentive
Pulse-Start ≤100W		\$35.00	
Pulse-Start 101 – 200W		\$50.00	
Pulse-Start 201 – 350W		\$75.00	

### LED Vertical Reach-In Refrigerated Case Lighting

Lamp Length	Lamp Qty	Incentive Per Lamp	Total Incentive
5'		\$30.00	
6'		\$30.00	

### Energy Star Approved LED Lamps

Lamp Type	Lamp Qty	Incentive Per Lamp	Total Incentive
Decorative		\$5.00	
MR16, PAR 20, 30 & 38		\$17.50	

### Energy Star Approved Dimmable LED Lamps (Must be Compatible to Lighting Controls)

Lamp Type	Lamp Qty	Incentive Per Lamp	Total Incentive
Decorative		\$7.50	
MR16, PAR 20, 30 & 38		\$20.00	

**Total Incentive Requested →**