



BPA Energy Efficiency Announcement:

BPA approves significant increases to Commercial & Industrial lighting credits/reimbursements

January 20, 2009

BPA Energy Efficiency will increase credits/reimbursements for conservation from existing building lighting retrofit and upgrade projects under the Commercial and Industrial (C&I) Lighting Standard Offer by an average of 48%. Increased credits/reimbursements apply to projects with completion dates of January 1, 2009 and later.

Utilities may use a new version of the Lighting Calculator Spreadsheet (version 1.7e), which will include the increased credits/reimbursements, to upload projects to the Planning, Tracking and Reporting (PTR) system. The new Lighting Calculator Spreadsheet and related new PTR reference numbers will be available on or about February 1, 2009. The new credits/reimbursements will be included in the April 1, 2009 version of the *Implementation Manual*.

About the changes

The changes to credits/reimbursements for specific measures were developed following a review of program deliveries, market conditions and other regional rebate programs. The Northwest Trade Ally Network for Commercial and Industrial Lighting was also consulted on the rebate strategy.

Credits/reimbursements are being raised *an average* of 48%. Some measures have not changed, while credits/reimbursements on other measures have doubled. The threshold for project qualification has been changed to a 25% reduction in annual kWh used (down from a 30% reduction in kW used). This change is designed to support the inclusion of controls in projects and will result in more projects qualifying for incentives. The maximum credit/reimbursement per project will remain capped at 70% of project cost.

In the interest of consistent program implementation and maximization of regional conservation, BPA Energy Efficiency suggests that these credits/reimbursements be passed through in their entirety to end users. See Appendix A of this document for a list of updated credits/reimbursements included in version 1.7e of the Lighting Calculator Spreadsheet.

For projects completed prior to January 1, 2009, utilities must use the current Lighting Calculator Spreadsheet (version 1.6e) to submit projects to BPA through the PTR. Utilities may use the new Lighting Calculator Spreadsheet (version 1.7e), which includes increased credits/reimbursements, for any project with a completion date after January 1, 2009. Utilities will be notified when the new Lighting Calculator Spreadsheet (version 1.7e) is available for download from the PTR.

Lighting Calculator Spreadsheet enhancements

In addition to the inclusion of new credits/reimbursements, the new Lighting Calculator Spreadsheet (version 1.7e) will feature other enhancements that will make the program participation easier. These enhancements were chosen based on utility customer and trade ally feedback, and include the following:

- > Descriptions of lamps/ballasts will be simplified
- > The number of choices on pull-down menus will be reduced (as an example, the current Lighting Calculator Spreadsheet features 82 choices for high performance T8 lamps/ballasts; the new Lighting Calculator Spreadsheet will include 18 choices)

- > Pull-down menus will be reordered so most commonly used choices appear near the top of the menu
- > Fields in the "verification report" tab will auto-populate with previously entered information
- > The "site audit" tab (where project information is input) will be blank in a newly downloaded calculator
- > The "site audit" tab will feature automatic row numbering
- > Space will be added for notes on each row of the "site audit" tab
- > The example project will appear on a separate tab and will no longer need to be deleted prior to entering new project information
- > The contractor/trade ally letter will be revised to include Return on Investment (ROI) calculations
- > Several outdated or infrequently used pages will be eliminated. These pages included outdated tips, definitions and descriptions of lamps/technologies.

Timeline

Early February 2009	Revised calculator available (final date TBD)
February 10, 2009	Informational Brown Bag. Look for more information from your Energy Efficiency Representative in the coming weeks.
March 17 & 19, 2009	C&I Lighting Calculator tutorial sessions available prior to and after the 2009 Utility Summit (times and locations to be announced)

For more information contact your Energy Efficiency Representative:

Tom Hannon, 509-625-1360, tkhannon@bpa.gov
Margaret Lewis, 503-230-7552, mllewis@bpa.gov
Lloyd Meyer, 503-230-7557, lcmeyer@bpa.gov
Rosalie Nourse, 509-625-1368, rnourse@bpa.gov
Melissa Podeszwa, 206-220-6772, mjpodeszwa@bpa.gov
Mark Ralston, 503-230-3175, mdralston@bpa.gov
Boyd Wilson, 509-527-6217, bwilson@bpa.gov

Appendix A: Lighting Schedule for Existing Buildings

Existing Equipment	Measure Description	Incentive Per Unit
<p>T12 Fluorescent or T8 De-Lamp or Incandescent or Mercury Vapor</p>	High Performance T8 or T5 Lamp and Ballast (New or Retrofit)	
	<p><i>Includes T8 & NLO T5, 2' to 8' lamps: <u>Ballast</u>: PF > 95%, THD < 20%. <u>Lamp</u>: Lumen Maint. > 94%, CRI > 80, lamp life > 24,000 hours, Initial System Lumens/Watt > 95. Note: All lamps and ballasts on CEE's High Performance products list qualify. Refer to the following link: http://www.cee1.org/</i></p>	
	Upgrade to 1 lamp with high performance electronic ballast	\$20
	Upgrade to 2 - 4 lamps with high performance electronic ballast	\$40
	Standard T8 or T5 Lamp and Ballast (New or Retrofit)	
	<p><i>Includes T8 and T5, 2' to 8' lamps. <u>Ballast</u>: PF > 90%, THD < 20%. <u>Lamp</u>: Lumen Maint. > 90%, CRI > 80, 4' lamp life > 20,000 hours, Initial System Lumens/Watt > 80.</i></p>	
	Upgrade to 1 lamp with standard electronic ballast	\$10
	Upgrade to 2 - 4 lamps with standard electronic ballast	\$20
<p>Incandescent or Mercury Vapor or MV/HPS/LPS</p>	Hardwired Compact Fluorescent (New Fixture or Retrofit kit)	
	<p><i>Includes both typical hardwired (any shape) or GU-24 base, See ENERGY STAR for guidance, CRI > 80.</i></p>	
	49 Watts or less (Nominal Lamp Watts)	\$40
	50 or more Watts (Nominal Lamp Watts)	\$80
	Ceramic Metal Halide (New Fixture)	
	<p><i>CRI > 80, lamp life > 10,000 hours.</i></p>	
	99 Watts or less (Nominal Lamp Watts)	\$80
	100 or more Watts (Nominal Lamp Watts)	\$150
	Screw-in Lamps (Lamp Only)	
	<p><i>ENERGY STAR compliant where applicable. Includes CFL and Cold Cathode.</i></p>	
	CFL or Cold Cathode - 3 to 24 Watts	\$3
	CFL or Cold Cathode - 25 to 45 Watts	\$6
	CFL or Cold Cathode - over 45 watts	\$12
	LED or Cold Cathode (New Fixture or Retrofit kit)	
	<p><i>ENERGY STAR compliant where applicable. F2 includes the LR-6 type kit or equivalent.</i></p>	
	Upgrade incandescent sign to LED or cold cathode	\$50
	Upgrade incandescent recessed cans or track heads to LED	\$30
Induction (New Fixture)		
<p><i>Lamp Life ≥ 60,000 hours, CRI ≥ 80, can include retrofit kit that has been bench tested.</i></p>		
99 Watts or less (Nominal Lamp Watts)	\$80	
100 or more Watts (Nominal Lamp Watts)	\$150	
<p>HO/VHO T12 Or MV/HPS/LPS Or Probe-Start Metal Halide or Incandescent</p>	High Output (high-bay) Fluorescent (New Fixture)	
	<p><i>Includes T8, T5, bi-ax T5; 1'-8'. Ballast: PF > 90%, THD < 20%. Lamp: Lumen Maint. > 90%, CRI > 80, lamp life > 18,000 hours, Initial System Lumens/Watt > 80.</i></p>	
	40 to 129 Watts (1-2 lamp T5) or equivalent T8	\$120
	130 to 189 Watts (3 lamp T5) or equivalent T8	\$140
	190 to 249 Watts (4 lamp T5) or equivalent T8	\$160
	250 Watts and above (5 - 12 lamp T5) or equivalent T8	\$180
	Pulse-Start or Electronic Metal Halide (New Fixture)	
	<p><i>Lamp Life > 20,000 hours, Lumen Maint. > 75%, CRI > 65, Initial System Lumens/Watt > 89.</i></p>	
200 to 399 Watts (Nominal Lamp Watts)	\$150	
400 Watts and above (Nominal Lamp Watts)	\$200	

Existing Equipment	Measure Description	Incentive Per Unit
Manual Control	Occupancy Sensors, Timers, Photocells, and Control Panels	
	<i>Includes infrared, ultrasonic, & dual-technology sensors and/or Timers, Photocells, and Control Panels.</i>	
	50 to 200 Watts controlled	\$35
	over 200 Watts controlled	\$60
8' T12 HO/VHO 4' HO de-lamp	Retrofit High Output Fixtures with T8 Lamps & Ballasts	
	<i>Includes lamp/ballast retrofits & kits; Ballast: PF > 90%, THD < 20%. Lamp: 8' or 4' T8 Slimline or HO. Lumen Maint. > 90%, CRI > 80, lamp life > 18,000 hours, Initial System Lumens/Watt > 80.</i>	
	1 T8 8' lamp and standard electronic ballast	\$40
	(2 to 8) 4' T8 lamps and standard electronic ballast	\$80
'8' T12 VHO	Retrofit Very High Output Fixtures with T5 Lamps & Ballasts	
	<i>Includes lamp/ballast retrofits only; Ballast: PF > 90%, THD < 20%. Lamp: 4' T5 HO. Lumen Maint. > 90%, CRI > 80, lamp life > 20,000 hours, Initial System Lumens/Watt > 80.</i>	
	2 T5 lamps and high output ballast	\$50
	3 to 4 T5 lamps and high output ballast	\$100