

Lisa D. Nordstrom  
Lead Counsel  
[lnordstrom@idahopower.com](mailto:lnordstrom@idahopower.com)

May 5, 2016

Public Utility Commission of Oregon  
Filing Center  
201 High Street SE, Suite 100  
P.O. Box 1088  
Salem, Oregon 97301

RE: Tariff Advice No. 16-08  
New Schedule 89, Commercial and Industrial Energy Efficiency

Attention Filing Center:

Pursuant to ORS 757.205 and OAR 860-022-0010(2), Idaho Power Company (“Idaho Power” or “Company”) hereby respectfully submits this tariff advice to the Public Utility Commission of Oregon (“Commission”) requesting authorization to implement a new energy efficiency schedule in the Company’s tariff, Schedule 89, Commercial and Industrial Energy Efficiency (“Combined Program” or “Schedule 89”). Additionally, the Company is requesting an exception from cost-effectiveness for one measure within the Combined Program.

The Company currently offers three energy efficiency programs for commercial and industrial customers: Easy Upgrades (Schedule 80), Custom Efficiency (Schedule 81), and Building Efficiency (Schedule 83). The purpose of this filing is to combine the three separate programs into one program with three energy efficiency offerings available for commercial and industrial customers, as well as expand the availability to other customer classes where there may be commercial or industrial facilities. As mentioned above, the new schedule will be “Schedule 89, Commercial and Industrial Energy Efficiency”.

The existing general program offerings to customers will remain unchanged with prescriptive measures for building retrofits (currently Easy Upgrades), custom incentives for complex projects (currently Custom Efficiency), and prescriptive measures for new construction and major renovations (currently Building Efficiency).

Creating one program will improve customer satisfaction by reducing customer confusion regarding which energy efficiency program is appropriate. The three separate programs have led to uncertainty for customers as to which program they should apply through with some customers applying to the wrong program and subsequently needing to reapply to the correct program, often duplicating information that they had previously provided.

By having a single program available to commercial and industrial customers and facilities, the Company will be better able to guide customers to the applicable information and application. As part of this effort, the incentive applications and the terms and conditions will be standardized as much as possible across the three different offerings within the program. If a customer does submit the wrong application, the Company will be able to quickly make the application changes internally without the customer needing to reapply. The Company has discussed combining the three separate programs into one program with the Energy Efficiency Advisory Group (“EEAG”) and has gained alignment.

In addition, the Company is proposing to add new prescriptive measures for the energy efficiency offerings. The new measures have been added for both retrofit and new construction projects where applicable and were selected for the following reasons: wide applicability in the Company’s service area, energy savings potential, widely published data and studies on each measure, predictable and consistent energy savings, and consistency with measures offered by other regional utility programs. The new measures were also added to help customers recognize cost-effective energy savings opportunities. EEAG also agreed that adding the new measures would improve the program.

Finally, the Company is requesting approval of a cost-effectiveness exception as allowed by Order No. 94-590, issued in Docket No. UM 551, for one Heat Pump Units measure within the Combined Program under the retrofit and new construction HVAC tables. The Heat Pump Units measure is currently in the Easy Upgrades Program, Table 2: HVAC AND HVAC CONTROLS and in the Building Efficiency Program, Table 2: Air Conditioning (HVAC). Under the proposed Combined Program, the Heat Pump Units measure is found in Table 2: RETROFIT – HVAC and HVAC CONTROLS and in Table 8: AIR CONDITIONING (HVAC) FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS. Additional information regarding the request for a cost-effectiveness exception is in the “COST-EFFECTIVENESS EXCEPTIONS REQUEST” section.

## **NEW SCHEDULE 89**

The proposed changes are discussed in more detail below and are organized by each section of the proposed new proposed Schedule 89.

### AVAILABILITY

The Company is proposing to remove the availability reference to the specific customer classes of Schedules 7, 9, and 19 to make the eligibility more broad to include all rate schedules where there may be commercial or industrial facilities, such as, but not limited to, street lighting schedules.

### Prescriptive Retrofit Program Changes Description Section (Currently Schedule 80, Easy Upgrades Program)

The Company conducted a review of the prescriptive retrofit lighting measures and, based on the cost-effectiveness analysis, determined it was able to make adjustments to various measures. The Company proposes to add new lighting and non-lighting measures, as well as modify some lighting measures and incentives.

Lighting and Lighting Controls – Table 1

The Company is proposing changes to Table 1 that would modify existing measures, as well as add a new measure to the Lighting and Lighting Controls incentive menu. The following modifications are proposed changes for Table 1:

- Add the word “Retrofit” to the table’s title to distinguish it from new construction measures. Tables 1 through 6 will all include the term “Retrofit” in the title because these energy efficiency measures are specifically for existing fixtures and equipment that will be retrofitted with energy efficient equipment.
  - To reflect the increased availability of high performance T8 lamp fixtures in the market, as well as reduce administrative burden in processing applications, the Company proposes to consolidate the High Performance T8 Fluorescents section with the Standard T8 Fluorescents section. The Company has experienced an increase in high performance T8 fixtures submitted for incentive and believes consolidating the two T8 Fluorescent sections into one section will streamline the supporting documentation customers need to submit and reduce the time Idaho Power personnel need to review the project. The Company also proposes to remove the word “Standard” from the Standard T8 Fluorescents section as it will no longer be needed. The term “Standard” was used to differentiate it from High Performance Fluorescent lights. Given that the majority of the T8 fixtures currently submitted to the program are High Performance fixtures, the Company proposes to retain the High Performance incentive levels within this newly-combined section.
- The Company proposes the following measure specification modifications/additions to LED lighting measures.
  - To reflect the price decrease of screw-in LED lamps, and the increase in availability of these lamps at lower wattage levels, the Company proposes to remove the designated wattage parameters for the screw-in or pin-base LED measures of  $\leq 10$  watts and 11-25 watts. The Company also proposes to adjust the unit incentive calculation to pay on a watt-reduced basis instead of a per lamp basis. This change reflects the numerous types of retrofit opportunities that are now available with the newer technology and the considerable price decrease subsequent to the Company’s analysis of this measure two years ago. The Company proposes a screw-in or pin-base LED measure with an incentive of \$0.16 per watt reduced for exterior applications and \$0.25 per watt reduced for interior applications.

- Add TLEDs (tube, or linear, LED) replacing fluorescent lamps. Currently, there is not an option for TLED lamps. Customers have requested the addition of TLED lamps to the Program. This cost-effective addition would allow broader market participation for customers that would like to install TLEDs, but need an incentive to help offset costs.
- Regarding lighting controls, the Company proposes the following modifications.
  - Remove the standard incentive for all exterior lighting controls (\$35 for wall switch, \$50 for wall mount, \$50 for fixture mount) because they are no longer cost-effective as a prescriptive incentive. However, customers may apply for this as a non-standard measure.
  - Remove the \$45 incentive for auto-off time switch or time clock control because it is no longer cost-effective as a prescriptive measure. However, customers may apply for this as a non-standard measure.
  - Remove the word “*wall*” from the “wall or ceiling mount occupancy sensor” measure description. This is a housekeeping issue intended to avoid confusion and improve clarity regarding this measure. Some customers interpret wall switches as wall mount sensors.
  - Reduce the 40 input watt minimum connected load requirement for wall switch and ceiling mount sensors to 25 input watts. Reducing the minimum connected load requirement will better represent the change in market conditions of increased use of LED technology and allow for more participation.
- Add new measures to the refrigeration case lighting section: TLEDs (tube, or linear, LED). The new measure is added to help customers recognize cost-effective energy savings. The addition of a TLED measure gives customers another option when considering ways to update their case lighting. This cost-effective addition would allow broader market participation for customers that would like to install TLEDs, but need an incentive to help offset costs.

#### HVAC and HVAC Controls – Table 2

The Company proposes changes to Table 2 to add clarity to measure descriptions, as well as add three new measures.

- Add the word “Retrofit” to the table’s title.
- To improve clarity regarding project eligibility, it is proposed to add heat pump (“HP”) in the description for each Air Conditioning measure. Likewise, it is proposed to add air-conditioning (AC) in the description for each Heat Pump measure.

- Modify the tonnage size listings in the Air Conditioning and Heat Pump sections to allow for odd tonnage-sized units to receive an incentive (e.g., 5.5 ton, etc.). As presently worded, it appears there is a gap in what is eligible for an incentive. The Company proposes the modification to ensure there are no gaps between tonnage levels.
- Remove the word “condenser” from the Chiller Unit section. Placement of this word is unnecessary and the current description may confuse customers. This edit is housekeeping in nature for improved clarity and will not negatively impact participation.
- Make a housekeeping edit to remove the term “Pre-coolers” under the Evaporative Coolers category. This term was approved to be removed from Schedule 80 as part of Tariff Advice No. 14-06, which was accepted by the Commission on August 19, 2014, but was inadvertently left in the schedule.
- Add “Evaporative pre-cooled DX systems are not eligible” to align current practices with the schedule, provide clarity for customers regarding eligibility, and to be consistent with the same measure wording in the new construction section.
- Add the following new measures to Table 2: evaporative pre-cooler, electronically commutated motor, and notched V-belt in HVAC applications. These new measures have wide applicability among the Company’s commercial customers, have proven energy savings, and are commonly found in other utility programs. The new measures are explained in more detail below:
  - Evaporative pre-cooler - Evaporative pre-coolers use an evaporative cooling process to cool the incoming air on an air cooled condenser. By pre-cooling the incoming air, the load on the mechanical chiller is reduced, saving electrical energy.
  - Electronically commutated motor (“ECM”) - ECM motors are fractional HP motors that are commonly found in both commercial refrigeration and commercial HVAC applications. ECM motors are used to replace shaded pole (“SP”) motors and permanent split capacitor (“PSC”) motors. ECM motor efficiencies are generally greater than 60 percent while PSC and SP motor efficiencies are generally closer to 20 percent and 40 percent, respectively.
  - Notched V-belt in HVAC applications - Notched V-Belts are used to replace a standard V-belt. The use of a notched V-belt reduces the bending resistance of the belt as to wraps around the sheave. Studies have shown that the use of notched V-belts over a standard V-belt will save approximately 2 percent in energy. The notched V-belts also have been shown to have a longer life. V-belts are commonly used to connect a motor to a fan in HVAC applications. The incentive is capped at \$50 per motor to avoid paying more than 100 percent of the cost of the belts.

Building Shell – Table 3

- Add the word “Retrofit” to the table’s title.

Other Commercial – Table 4

- Change the title of the table to “Retrofit – Other Equipment”.
- Add two new measures to Table 4: smart power strips and standby generator engine block heater. These measures are offered in other utility programs with proven energy savings. The measures have wide applicability in the Idaho Power service area and are explained in more detail below:
  - Smart power strips are multi-plug power strips with the ability to automatically shut off power to devices that are plugged into the strip. The two most common technologies are load sensing and motion sensing power strips. The load sensing power strip shuts off power to devices plugged into the strip when the current drops below a threshold level thereby saving the standby (phantom) power draw. Motion sensing power strips shut off power to devices plugged into the strip when no motion or activity is sensed after a specified period of time.
  - The standby generator engine block heater incorporates a circulation pump with a heater to keep the generator engine block warm to enable a quick start of the generator. This measure replaces an existing thermo-siphon electric resistance circulating block heater which only uses temperature gradients in the engine block to circulate the warm water. Studies have shown that the new engine block heaters save an average of 35 percent over the conventional thermo-siphon engine block heater.

Food Service Equipment – Table 5

- Add the word “Retrofit” to the table’s title.
- It is proposed to add a new measure to this table: demand controlled kitchen ventilation exhaust hood. This new measure warrants a prescriptive incentive based on review of the technology, market size, and energy savings potential. Kitchen exhaust hoods are the largest consumers of electricity in commercial kitchens. Most commercial kitchen hoods operate at 100 percent capacity even during slow periods when the ventilation system can safely be turned down. Demand controlled kitchen ventilation reduces the fan speed of the exhaust fan and the makeup air fan during times of low activity.

Variable Speed/Frequency Drives – Table 6

- Add the word “Retrofit” to the table’s title.
- The Company proposes to add a new measure to Table 6: variable speed drive on potato and onion storage shed ventilation. Variable speed drives can be used on the fans to control the air flow in potato and onion storage sheds. These projects have previously been handled as Custom Efficiency projects. The claimed energy savings comes from the Regional Technical Forum (“RTF”) and the cost information has been supplied by vendors and customers participating in Custom Efficiency projects. The Company proposes to move this to a prescriptive incentive based on the RTF energy savings data and the Company’s compiled project cost data. This will make it easier for the customer and vendor to determine the financial incentive on each project.

Prescriptive New Construction Program Changes Description Section (Currently Schedule 83, Building Efficiency Program)

Update table names and add new construction incentive measures to the energy efficiency offering.

Lighting For New Construction, Expansion, or Major Renovations - Table 7

Rename the table “LIGHTING FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS” and renumber the table to 7. This is currently Table 1, LIGHTING in Schedule 83.

Air Conditioning (HVAC) For New Construction, Expansion, or Major Renovations – Table 8

- Rename the table “AIR CONDITIONING (HVAC) FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS” and renumber the table to 8. This is currently Table 2, AIR CONDITIONING (HVAC) in Schedule 83.
- Add one new measure to Table 8: Evaporative Pre-cooler. Evaporative pre-coolers use an evaporative cooling process to cool the incoming air on an air cooled condenser. By pre-cooling the incoming air, the load on the mechanical chiller is reduced saving electrical energy. This new measure has wide applicability among the Company’s commercial customers and has proven energy savings and is commonly found in other utility programs.

Building Shell for New Construction, Expansion, or Major Renovations – Table 9

- Rename the table “BUILDING SHELL FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS” and renumber the table to 9. This is currently Table 3, BUILDING SHELL, in Schedule 83.

Controls for New Construction, Expansion, or Major Renovations – Table 10

- Rename the table “CONTROLS FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS” and renumber the table to 10. This is currently Table 4, CONTROLS, in Schedule 83.
- Add a new incentive under the HVAC Variable Speed Drives measure type. HVAC Variable Speed Drives, Part C: Potato/onion storage shed ventilation. These projects have previously been handled as Custom Efficiency projects. The claimed energy savings comes from the RTF and the cost information has been supplied by vendors and customers participating in Custom Efficiency projects. The Company proposes to move this to a prescriptive incentive based on the RTF energy savings data and the Company’s compiled project cost data. This will make it easier for the customer and vendor to determine the financial incentive on each project.
- Add a new measure to Table 10: Demand Controlled Kitchen Ventilation Exhaust Hood. This new measure warrants a prescriptive incentive based on review of the technology, market size, and energy savings potential. Kitchen exhaust hoods are the largest consumers of electricity in commercial kitchens. Most commercial kitchen hoods operate at 100 percent capacity even during slow periods when the ventilation system can safely be turned down. Demand controlled kitchen ventilation reduces the fan speed of the exhaust fan and the makeup air fan during times of low activity.

Appliances with Electric Water Heating for New Construction, Expansion, or Major Renovations – Table 11

Rename the table “APPLIANCES WITH ELECTRIC WATER HEATING FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS” and renumber the table to 11. This is currently Table 5, APPLIANCES WITH ELECTRIC WATER HEATING, in Schedule 83.

Refrigeration for New Construction, Expansion, or Major Renovations – Table 12

Rename the table “REFRIGERATION FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS” and renumber the table to 12. This is currently Table 6, REFRIGERATION, in Schedule 83.

Equipment for New Construction, Expansion, or Major Renovations – Table 13

- Add table 13: EQUIPMENT FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS.
- Add a new measure to Table 13: Smart Power Strips. Smart power strips are multi-plug power strips with the ability to automatically shut off power to devices that are plugged into the strip. The two most common technologies are load sensing and motion sensing power strips. The load sensing power strip shuts off power to devices plugged into the strip when the current drops below a threshold



level thereby saving the standby (phantom) power draw. Motion sensing power strips shut off power to devices plugged into the strip when no motion or activity is sensed after a specified period of time. This measure is offered in other utility programs with proven energy savings. The measure has wide applicability in the Idaho Power service area.

Custom Incentive Changes Description Section (Currently Schedule 81, Custom Efficiency Program)

The Company proposes the following for each section of the energy efficiency offering:  
QUALIFICATIONS:

- Remove the minimum annual savings limit of 100,000 kilowatt-hours. This will allow for projects that may not meet that threshold to receive a “Custom” incentive.

INCENTIVE OPTIONS

- Remove the date specific restrictions to allow more flexibility for the customer to use the funds and streamline the administrative processes for the Company. The current parameters establish a strict three-year timeframe which could require a customer to request an extension due to long design and construction schedules not aligning with the three-year timeframe.
- Option 2 – Self Directed
  - Modify how the self-directed fund is tracked to align with the information found above in INCENTIVE OPTIONS. This will provide clarity for the customer and make it easier for the customer and the Company to manage, and also allows for better marketing of the self-directed option for customers that haven’t participated in the custom incentive portion of the program.
  - Remove the date-specific restrictions for the self-directed accounts to align with the information found above in INCENTIVE OPTIONS and Option 2 - Self Directed.

**COST-EFFECTIVENESS EXCEPTION REQUEST**

The Company is requesting approval for a cost-effectiveness exception as allowed by Order No. 94-590, issued in Docket No. UM 551, for one measure within the program that falls under the retrofit and new construction HVAC tables. This measure is >5-25 ton ( $\geq 65,000$  Btu/hr &  $\leq 300,000$  Btu/hr) Heat Pump Variable Refrigerant Flow (“VRF”) that meets Consortium of Energy Efficiency (“CEE”) Tier 1 under the 2012 International Energy Conservation Code (“IECC”). The Heat Pump Units measure is currently in the Easy Upgrades Program, Table 2: HVAC AND HVAC CONTROLS. This measure is shown in the program by varying tonnage sizes, ranging from >5-11 ton, >11-19 ton, and >19-25 ton, with the same applicable incentive amount. This measure is also currently in the Building Efficiency Program, Table 2: AIR CONDITIONING (HVAC). The measure is shown as Variable Refrigerant Flow

Units under the size category  $\geq 65,000$  Btu/hr &  $\leq 300,000$  Btu/hr. In the proposed Combined Program, this measure is found in Table 2: RETROFIT – HVAC and HVAC CONTROLS and Table 8: AIR CONDITIONING (HVAC) FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS.

HP VRFs that meet CEE Tier 1 under the 2009 IECC standards are still cost-effective; however, due to the increase in baseline efficiency with the 2012 IECC standards, the HP VRFs that meet CEE Tier 1 are no longer cost-effective. Order No. 94-590 provides criteria for cost-effectiveness exceptions. The HP VRF measure meets multiple cost-effectiveness exceptions criteria, including if a measure is included for consistency with other demand-side management programs in the region, and/or the measure helps increase participation in a cost-effective program.

In 2015, Idaho Power did not incent on any projects with this measure in Oregon, but there may be future projects that could include this measure. The HP savings are based on the cooling savings alone and do not include any potential heating savings. This method was chosen so both gas and electrically heated customers can participate in the measure. The Company chose not to limit participation based on the customer's heating source to reduce customer confusion. However, if the Company limited the participation to only those with electric heat, the heat pumps would be cost-effective. The VRFs are listed in the Northwest Power and Conservation Council's Seventh Northwest Conservation and Electric Power Plan as a new source of conservation potential. Idaho Power endeavors to keep consistency across its Idaho and Oregon jurisdictions to reduce confusion in the marketplace. Therefore, in accordance with these exception guidelines, the Company proposes to continue the offering.

Please note that existing measures within the commercial and industrial energy efficiency programs were granted cost-effectiveness exceptions in the past. Thirteen measures from the Easy Upgrades Program (currently Schedule 80) were granted cost-effective exceptions as part of Advice No. 14-06. Three measures from the Building Efficiency Program (currently Schedule 83) were granted cost-effectiveness exceptions as part of Advice No. 14-10. Some of these measures are now cost-effective; however, five measures are still not cost-effective. These measures would continue to be offered within the proposed "Combined Program". These measures are:

- Hard-wired compact fluorescent  $\leq 49$  watts and electronic ballasts (Exterior)
- Case #3 – LED display case lighting replacing T8 fluorescent lighting
- 0 – 25 ton AC units that meet the CEE Tier 2
- Wall Insulation to R11 minimum, 2.5 or less
- Daylight photo controls

### **DISCONTINUANCE OF SCHEDULES 80, 81, AND 83**

Also enclosed with this filing are revised Schedules 80, 81, and 83. The Company has noted in each of these schedules that they have been discontinued and for customers to refer to Schedule 89. In conjunction with these changes, an updated Schedule Index Sheet No. iii is enclosed which reflects the discontinuance of Schedules 80, 81, and 83, and newly added Schedule 89.

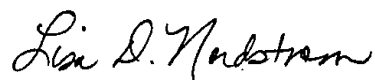
Public Utility Commission of Oregon  
Filing Center  
May 5, 2016  
Page 11

Although Schedules 80, 81, and 83 would be discontinued, for your convenience in comparing changes made to these schedules, the Company has included them in redline format as Attachment A.

Idaho Power requests that the Commission authorize the tariff sheets as filed with an effective date of June 15, 2016.

If you have any questions regarding this filing, please contact Regulatory Analyst Zach Harris at (208) 388-2305 or zharris@idahopower.com.

Sincerely,

A handwritten signature in black ink that reads "Lisa D. Nordstrom". The signature is written in a cursive, flowing style.

Lisa D. Nordstrom  
Lead Counsel

LDN:kkt

Enclosures

**SCHEDULE 89  
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY**

**AVAILABILITY**

Service under this schedule is available to commercial and industrial Customers as well as other customer classes where there may be commercial and industrial facilities throughout the Company's service area within the State of Oregon receiving active service.

**APPLICABILITY**

This schedule is applicable to electric energy efficiency retrofit and new construction projects typical of commercial or industrial applications that meet the requirements of the Commercial and Industrial Energy Efficiency.

**DESCRIPTION**

The Commercial and Industrial Energy Efficiency program is an incentive-based program designed to help reduce the costs of installing energy efficiency features in existing and new commercial and industrial buildings. The Program provides incentives for a variety of prescriptive lighting and non-lighting measures, as well as a custom path for projects which fall outside the prescriptive offerings.

**INCENTIVE STRUCTURE**

Installed measures must meet the requirements of the Commercial and Industrial Energy Efficiency program as detailed in this Schedule, and must also comply with the current Program terms and conditions posted to the Program website at [www.idahopower.com/business](http://www.idahopower.com/business). Incentives will not be paid for measures required by Oregon code. Incentive payments will not exceed 100% of the installed cost.

**PRESCRIPTIVE RETROFIT INCENTIVES**

<b>TABLE 1: RETROFIT - LIGHTING AND LIGHTING CONTROLS</b>			
<b>Equipment Category</b>	<b>Installing</b>	<b>Replacing</b>	<b>Incentive Per Unit Exterior/Interior</b>
<b>T8 Fluorescents</b>	2' or 3' T8 and electronic ballast (1 or more lamps)	2', 3' and 4' ( <i>u-bent</i> ) T12	\$ 8.00/10.00
	1-lamp 4' T8 and electronic ballast	1-lamp 4' T12	\$ 22.00/22.00
	1- or 2-lamp 4' T8 and electronic ballast	2-lamp 4' T12	\$ 24.00/24.00
	2- or 3-lamp 4' T8 and electronic ballast	3-lamp 4' T12	\$ 32.00/36.00
	2-, 3- or 4-lamp 4' T8 and electronic ballast	4-lamp 4' T12	\$ 34.00/40.00
	1- or 2-lamp 6' T8 and electronic ballast	1- or 2-lamp 6' T12	\$ 14.00/16.00
	1- or 2-lamp 6' T8 and electronic ballast (slimline & HO)	1- or 2-lamp 6' T12HO/VHO	\$ 14.00/16.00
	1- or 2-lamp 8' T8 and electronic ballast	1- or 2-lamp 8' T12	\$ 12.00/14.00
	2-, 3- or 4-lamp 8' T8 and electronic ballast	3- or 4-lamp 8' T12	\$ 24.00/28.00
	1- or 2-lamp 8' T8 and electronic ballast (slimline & HO)	1- or 2-lamp 8' T12HO/VHO	\$ 12.00/28.00
	2-, 3- or 4-lamp 8' T8 and electronic ballast (slimline & HO)	3- or 4-lamp 8' T12HO/VHO	\$ 24.00/36.00
	2-, 3- or 4-lamp 4' T8 and electronic ballast (tandem/retrofit)	1- or 2-lamp 8' T12	\$ 34.00/40.00
	2-, 3- or 4-lamp 4' T8 and electronic ballast (tandem/retrofit)	1- or 2-lamp 8' T12HO/VHO	\$ 45.00/55.00
<b>T5 (Non-HO) Fluorescents</b>	1- or 2-lamp 4' T5 and electronic ballast	1- or 2-lamp 4' T12	\$ 14.00/20.00
	2-, 3- or 4-lamp 4' T5 and electronic ballast	3- or 4-lamp 4' T12	\$ 24.00/45.00

SCHEDULE 89  
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY  
(Continued)

PRESCRIPTIVE RETROFIT INCENTIVES (Continued)

<b>TABLE 1: RETROFIT - LIGHTING AND LIGHTING CONTROLS (Continued)</b>			
Equipment Category	Installing	Replacing	Incentive Per Unit Exterior/Interior
T5/T8 High Bay – New Fixture <i>(Use of reflector recommended)</i>	4-lamp 4' T8 and electronic ballast	Fixture using $\geq 200$ input watts	\$ 75.00/85.00
	6-lamp 4' T8 and electronic ballast or 2-, 3- or 4-lamp 4' T5HO and electronic ballast	Fixture using 200-399 input watts	\$ 75.00/85.00
	4-, 6- or 8-lamp 4' T8 and electronic ballast or 4- or 6- lamp 4' T5HO and electronic ballast	Fixture using $\geq 400$ input watts	\$110.00/160.00
	10- or 12-lamp 4' T8 and electronic ballast or 8- or 10-lamp 4' T5HO and electronic ballast	Fixture using 751-1100 input watts	\$180.00/200.00
Fluorescent Delamping <i>(Only applicable as standard measures)</i>	Delamping Fixture from T12 to 4' T8 (per lamp)	T12 Fixture	\$ 5.00/5.00
Reduced Wattage T8/T5HO <i>(Only applicable as standard measures)</i>	Reduced wattage 4' T8 & T5HO lamps (per lamp) <i>(ballast must be compatible)</i>	T12 or HID	\$ n/a/1.00
Relamp T8/T5HO to Reduced Wattage T8/T5HO <i>(Only applicable as standard measures)</i>	Reduced wattage 4' T8 lamps, 28W & 25W (per lamp) Reduced wattage 4' T8 lamps, 25W (per lamp) Reduced wattage 4' T5HO lamps, 47W-49W (per lamp) <i>(In all above cases, ballast/lamps must be compatible)</i>	4' T8, 32 watt 4' T8, 28 watt 4' T5HO, 54 watt	\$ n/a/1.00
Permanent Fixture Removal <i>(Only applicable as standard measures)</i>	Permanent fixture removal as part of overall lighting retrofit project	Hardwired fixture using 50-299 input watts	\$ 15.00/20.00
	Permanent fixture removal as part of overall lighting retrofit project	Hardwired fixture $\geq 300$ input watts	\$ 25.00/30.00
Compact Fluorescents (CFLs) <i>(Only available as a standard incentive)</i>	Screw-in compact fluorescent $\leq 32$ watt	Fixture using $\geq 40$ input watts	\$ 2.00/2.00
	Screw-in compact fluorescent 33-59 watt	Fixture using $\geq 100$ input watts	\$ 4.00/4.00
	Screw-in compact fluorescent $\geq 60$ watt	Fixture using $\geq 150$ input watts	\$ 20.00/20.00
	Screw-in cold-cathode $\leq 32$ watt	Fixture using $\geq 40$ input watts	\$ 4.00/4.00
	Hard-wired compact fluorescent $\leq 49$ watts and electronic ballast	Fixture using $\geq 90$ input watts	\$ 30.00/45.00
	Hard-wired compact fluorescent 50-99 watts and electronic ballast	Fixture using $\geq 150$ input watts	\$ 40.00/55.00

PRESCRIPTIVE RETROFIT INCENTIVES (Continued)

TABLE 1: RETROFIT - LIGHTING AND LIGHTING CONTROLS (Continued)			
Equipment Category	Installing	Replacing	Incentive Per Unit Exterior/Interior
Light Emitting Diodes (LEDs) <i>(Must be on DLC List, ENERGY STAR® Qualified Commercial LED List or LDL Regional LED List)</i>	Screw-in or pin-base LED	Screw-in or pin-base lamp using higher wattage	\$0.16/0.25/watt reduced
	Linear LED tube	Fluorescent lamp > 17 watts	\$1.50/ft
	LED fixture or fixture retrofit kit	Fixture using higher wattage	\$0.12/0.18/kWh reduced
Ceramic/Pulse Start/Electronic Metal Halide	Screw-in reduced wattage metal halide ≥ 125 watt	Metal halide using ≥ 250 input watts	\$ 25.00/25.00
	150-230 input watts metal halide	Fixture using 170-295 input watts	\$ 30.00/65.00
	150-230 input watts metal halide	Fixture using ≥ 296 input watts	\$ 30.00/100.00
	231-360 input watts metal halide	Fixture using ≥ 450 input watts	\$ 55.00/115.00
	361+ input watts metal halide	Fixture using ≥ 600 input watts	\$105.00/200.00
LED Exit Signs	LED exit sign or equivalent (<5 watts)	Exit sign using ≥18 watts	\$ n/a/40.00
Lighting Controls <i>(Use of program start ballast recommended for lighting controls)</i>	Wall switch occupancy sensor	Manual or no prior control ≥ 25 input watts	\$ n/a/35.00
	Ceiling mount occupancy sensor	Manual or no prior control ≥ 25 input watts	\$ n/a/60.00
	Fixture mount occupancy sensor	Manual or no prior control	\$ n/a/50.00
	Interior photocell control (dimming, step-dimming or switching)	Manual or no prior control	\$ n/a/50.00
Refrigeration Case Lighting	Case #1 – T8 fluorescent lighting and electronic ballast (per lamp)	Case #1 – T12 fluorescent lighting	\$15.00
	Case #2 – LED display case lighting (per linear ft)	Case #2 – T12 fluorescent lighting	\$15.00
	Case #3 – LED display case lighting (per linear ft)	Case #3 – T8 fluorescent lighting	\$10.00
	Case #4 – TLED display case lighting (per linear ft)	Case #4 – T12 fluorescent lighting	\$1.50
	Case #5 – TLED display case lighting (per linear ft)	Case #5 – T8 fluorescent lighting	\$1.50

Table 1 Notes:

1. “Non-standard” incentives are available for cost-effective lighting measures not listed on Table 1. Non-standard interior lighting incentives will be calculated at \$0.18 per first year annual kilowatt-hour saved up to 70% of measure cost and exterior lighting incentives will be calculated at \$0.12 per first year annual kilowatt-hour saved up to 70% of measure cost.
2. Complete Lighting Upgrade incentive applies to projects where all the interior inefficient lighting is retrofitted with more efficient technologies, including the incorporation of controls, where applicable. The Complete Lighting Upgrade is a bonus incentive given in addition to the Company’s incentive calculation. This bonus incentive will be equal to five percent of the regular interior incentive amount.

SCHEDULE 89  
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY  
 (Continued)

PRESCRIPTIVE RETROFIT INCENTIVES (Continued)

<b>TABLE 2: RETROFIT - HVAC AND HVAC CONTROLS</b>			
Equipment category	Installing	Replacing	Incentive Per Unit
Air Conditioning (AC) Units	≤5 ton AC unit that meets CEE Tier 2	Standard ≤5 ton AC/HP unit	\$ 75.00/ton
	>5-11 ton AC unit that meets CEE Tier 1	Standard >5-11 ton AC/HP unit	\$ 30.00/ton
	>5-11 ton AC unit that meets CEE Tier 2	Standard >5-11 ton AC/HP unit	\$ 75.00/ton
	>11-19 ton AC unit that meets CEE Tier 1	Standard >11-19 ton AC/HP unit	\$ 30.00/ton
	>11-19 ton AC unit that meets CEE Tier 2	Standard >11-19 ton AC/HP unit	\$ 75.00/ton
	>19-25 ton AC unit that meets CEE Tier 1	Standard >19-25 ton AC/HP unit	\$ 30.00/ton
	>19-25 ton AC unit that meets CEE Tier 2	Standard >19-25 ton AC/HP unit	\$ 75.00/ton
	>5-11 ton VRF unit that meets CEE Tier 1	Standard >5-11 ton AC unit	\$ 75.00/ton
	>11-19 ton VRF unit that meets CEE Tier 1	Standard >11-19 ton AC/HP unit	\$ 75.00/ton
	>19-25 ton VRF unit that meets CEE Tier 1	Standard >19-25 ton AC/HP unit	\$ 75.00/ton
Heat Pump (HP) Units	≤5 ton HP unit that meets CEE Tier 1	Standard ≤5 ton AC/HP unit	\$ 30.00/ton
	>5-11 ton HP unit that meets CEE Tier 1	Standard >5-11 ton AC/HP unit	\$ 30.00/ton
	>11-19 ton HP unit that meets CEE Tier 1	Standard >11-19 ton AC/HP unit	\$ 30.00/ton
	>19-25 ton HP unit that meets CEE Tier 1	Standard >19-25 ton AC/HP unit	\$ 30.00/ton
	>5-11 ton VRF unit that meets CEE Tier 1	Standard >5-11 ton AC/HP unit	\$ 75.00/ton
	>11-19 ton VRF unit that meets CEE Tier 1	Standard >11-19 ton AC/HP unit	\$ 75.00/ton
	>19-25 ton VRF unit that meets CEE Tier 1	Standard >19-25 ton AC/HP unit	\$ 75.00/ton
Chiller Units	Air-cooled chiller, IPLV 14.0 EER or higher	Standard air-cooled chiller	\$ 80.00/ton
	Water-cooled chiller electronically operated, reciprocating and positive displacement: Up to 149 ton unit, IPLV: 0.52 or less (kW/ton) 150 ton or greater, IPLV: 0.49 or less (kW/ton) Water-cooled chiller electronically operated, centrifugal: Up to 299 ton unit, IPLV: 0.52 or less (kW/ton) 300 to 599 ton unit, IPLV: 0.45 or less (kW/ton)	Standard water-cooled chiller	\$ 40.00/ton
Economizers	Air side economizer control addition	No prior control	\$100.00/ton
	Air side economizer control repair	Non-functional economizer	\$50.00/unit
Evaporative Coolers	Retrofit to direct evaporative cooler (Evaporative pre-cooled DX systems are not eligible)	Standard AC unit	\$200.00/ton

SCHEDULE 89  
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY  
(Continued)

PRESCRIPTIVE RETROFIT INCENTIVES (Continued)

<b>TABLE 2: RETROFIT - HVAC AND HVAC CONTROLS</b> (Continued)			
Equipment category	Installing	Replacing	Incentive Per Unit
Automated Control Systems	EMS controls with 2 strategies	Proposed strategy not existing	Retrofit System/New System \$125.00/ton/70.00/ton
	EMS controls with 3 strategies	Proposed strategy not existing	\$150.00/ton/80.00/ton
	EMS controls with 4 strategies	Proposed strategy not existing	\$175.00/ton/90.00/ton
	EMS controls with 5 strategies	Proposed strategy not existing	\$200.00/ton/100.00/ton
	Lodging room occupancy controls	Manual controls	\$ 75.00/ton
Evaporative Pre-Cooler	Pre-cooler added to condenser	Standard air-cooled condenser	\$ 20.00/ton
Electronically Commutated Motor (ECM)	ECM motor in HVAC application	Shaded pole or permanent split capacitor motor	\$100/motor
Notched V-Belt in HVAC Applications	Type AX notched V-belt Type BX notched V-belt	Type A solid V-belt Type B solid V-belt	\$ 5.00/hp* \$ 5.00/hp* *Incentive capped at \$50/motor

<b>TABLE 3: RETROFIT - BUILDING SHELL</b>			
Equipment category	Installing	Replacing	Incentive
Premium Windows	Low U-value, U-factor of .30 or less	Standard windows	\$ 2.50/ft2 window area
Reflective Roofing	Adding reflective roof treatment	Non-reflective low pitch roof	\$ 0.05/ft2 roof area
Wall Insulation	Increase to R11 min. insulation	Insulation level, R2.5 or less	\$ 0.40/ft2 wall area
	Increase to R19 min. insulation	Insulation level, R2.5 or less	\$ 0.55/ft2 wall area

Table 3 Notes:

1. Windows must be installed in building with electric heat and mechanical cooling.
2. Insulation must be professionally installed by an insulation contractor.
3. Insulation must be installed in building with electric heat and mechanical cooling.



SCHEDULE 89  
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY  
 (Continued)

PRESCRIPTIVE RETROFIT INCENTIVES (Continued)

<b>TABLE 4: RETROFIT - OTHER EQUIPMENT</b>			
Equipment category	Installing	Replacing	Incentive Per Unit
Computers	PC network power management	No central control software in place	\$ 10.00
Laundry Machines	High efficiency washer	Standard washer, electric HW	\$125.00
Stock Tank/Fountain	Energy free freeze resistant stock tank	Electric stock tank	\$100.00
Residential-type electric water heater	EF 0.94 or higher, 25-54 gallon EF 0.95 or higher, 45-54 gallon EF 0.93 or higher, 55-74 gallon EF 0.92 or higher, 75-99 gallon EF 0.85 or higher, 100-119 gallon	Standard electric water heater	\$ 50.00
Commercial-type electric water heater	25-34 gallon, standby loss 157 or lower 35-44 gallon, standby loss 185 or lower 45-54 gallon, standby loss 201 or lower 55-74 gallon, standby loss 238 or lower 75-99 gallon, standby loss 249 or lower 100-119 gallon, standby loss 287 or lower	Standard electric water heater	\$ 20.00
Commercial showerhead, electric water heat	2.0 gpm or less installed in health club/fitness business	Showerhead using 2.2 gpm or greater	\$ 15.00
	2.0 gpm or less installed in commercial business (non health club/fitness)	Showerhead using 2.2 gpm or greater	\$ 9.00
Smart Power Strips	Load-sensing, motion-sensing, or timer-controlled power strip	No existing load or motion-sensing, or timer-controlled power strip	\$ 10.00/ power strip
Standby Generator Engine Block Heater	Stationary pump-driven circulating block heater; must operate continuously	Thermosiphon electric resistance circulating block heater < 3 kW 3 kW or greater	\$200/unit \$1,500/unit

Table 4 Notes:

1. PC network power management incentive applies to desktop units only.

SCHEDULE 89  
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY  
(Continued)

PRESCRIPTIVE RETROFIT INCENTIVES (Continued)

<b>TABLE 5: RETROFIT - FOOD SERVICE EQUIPMENT</b>			
Equipment category	Installing	Replacing	Incentive Per Unit
Refrigeration	Add refrigeration line insulation	No insulation present	\$ 2.00/linear foot
	Install auto-closer – walk-in	No/damaged auto-closer, low temp.	\$125.00/door
	Install auto-closer – reach-in	Damaged auto-closer, low temp.	\$100.00/door
	Install auto-closer – walk-in	No/damaged auto-closer, med. temp.	\$100.00/door
	Install auto-closer – reach-in	Damaged auto-closer, med. temp.	\$ 70.00/door
	Add anti-sweat heat controls	Low/med. temp. case w/out controls	\$ 40.00/linear foot
Evaporator Fans	Add evaporator fan controls	Low or med. temp. walk-in or reach-in with no controls	\$ 75.00/fan
	Install ECM/PSC evap fan motor	Med. or low temp. walk-in	\$100.00/motor
	Install ECM/PSC fan motor	Med. or low temp. reach-in	\$ 60.00/motor
Floating Head, Suction Pressures	Head pressure controller	Standard head pressure control	\$ 80.00/hp
	Suction pressure controller	Standard suction pressure control	\$ 20.00/hp
Demand Controlled Kitchen Ventilation Exhaust Hood	VFD installed on kitchen exhaust and/or makeup air fan	Kitchen hood with constant speed ventilation motor	\$200/hp
Vending Machines	Non-cooled snack control	Vending machine with no sensor	\$ 50.00
Commercial Kitchen Equipment	ENERGY STAR <sup>®</sup> undercounter dishwasher	Standard dishwasher	\$200.00
	ENERGY STAR <sup>®</sup> commercial dishwasher	Standard commercial dishwasher	\$500.00
	ENERGY STAR <sup>®</sup> listed electric combination oven (6-14 pans)	Standard electric oven	\$1,100.00
	ENERGY STAR <sup>®</sup> listed electric combination oven (15-20 pans)	Standard electric oven	\$300.00
	ENERGY STAR <sup>®</sup> listed electric convection oven	Standard electric oven	\$300.00
	ENERGY STAR <sup>®</sup> listed electric fryer	Standard fryer	\$400.00
	ENERGY STAR <sup>®</sup> listed electric steamer - 3 pan - 4 pan - 5 pan - 6 pan - 10 pan or larger	Standard steamer	\$ 80.00 \$100.00 \$150.00 \$175.00 \$200.00

SCHEDULE 89  
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY  
(Continued)

PRESCRIPTIVE RETROFIT INCENTIVES (Continued)

<b>TABLE 6: RETROFIT - VARIABLE SPEED/FREQUENCY DRIVES</b>			
Equipment category	Installing	Replacing	Incentive Per Unit
Variable Speed Controls	Variable speed drive on HVAC system applications: - Chilled water pumps - Condenser water pumps - Cooling tower fans	Single speed HVAC system fan/pump	\$ 60.00/hp
	Variable speed drive on HVAC fan applications: - Supply - Return - Outside air - Make-up air - Hot water pumps	Single speed HVAC system fan/pump	\$100.00/hp
	Variable speed drive on potato and onion storage shed ventilation	No existing VSD	\$200.00/hp

PRESCRIPTIVE NEW CONSTRUCTION INCENTIVES

<b>TABLE 7: LIGHTING FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS</b>		
Measure Type	Incentive	Eligibility Requirements
Interior Light Load Reduction	Part A: \$0.10 Part B: \$0.20 Part C: \$0.30 per square foot covered by the lighting	Lighting systems designed with a lighting power density (LPD) that is at least: Part A: 10-19.9% below the Oregon Energy Efficiency Specialty Code will be eligible for this incentive, or Part B: 20-29.9% below the Oregon Energy Efficiency Specialty Code or Part C: Equal to or greater than 30% below the Oregon Energy Efficiency Specialty Code will be eligible for this incentive.  A project that is at least 60% below code and/or has high operation hours can receive a non-standard interior lighting incentive at \$0.18 per kWh saved, up to 100% of the incremental cost between a base and efficient lighting system.
Exterior Light Load Reduction	\$200.00 per kW below code	Must be a minimum of 15% below the Oregon Energy Efficiency Specialty Code to qualify.
Daylight Photo Controls	\$0.25 per square foot of daylit space	Daylight photo controls dim or turn off electric lights in response to levels of natural daylight. To qualify for an incentive, the design must include a consultation with the Integrated Design Lab or other qualified daylighting professional.
Occupancy Sensors	\$25.00 per sensor installed	Occupancy sensors are automatic switching devices that sense human occupancy and control the lighting system accordingly. Either wall- or ceiling-mounted sensors are eligible.
High Efficiency Exit Signs	\$7.50 per installed sign	Any code compliant exit sign that draws less than 4 watts per sign face including, but not limited to, light emitting diode (LED), cold cathode, electroluminescent, or self-luminous exit signs are eligible for an incentive.

**SCHEDULE 89  
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY  
(Continued)**

**PRESCRIPTIVE NEW CONSTRUCTION INCENTIVES (Continued)**

<b>TABLE 8: AIR CONDITIONING (HVAC) FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS</b>						
Measure Type	Incentive	Eligibility Requirements				
		Equipment Type	Size Category (single & three phase units)	Sub-Category	Part A: \$30/ton	Part B: \$75/ton
Efficient Air-cooled AC, HP and VRF units	Part A: \$30.00 Part B: \$75.00 per ton of air conditioning	Unitary Commercial Air Conditioners, Air Cooled (Cooling Mode)	<65,000 Btu/hr	Split system & single package	N/A	CEE Tier 2
			>=65,000 Btu/hr & <=300,000 Btu/hr	Split system & single package	CEE Tier 1	CEE Tier 2
		Heat Pumps, Air-Cooled (Cooling Mode)	<=300,000 Btu/hr	Split system & single package	CEE Tier 1	N/A
		Variable Refrigerant Flow Units	>=65,000 Btu/hr & <=300,000 Btu/hr	Multi-split AC or Heat Pump	N/A	CEE Tier 1

NOTE: Efficiency is based on AHRI and ISO standards.

Efficient Chillers	Incentive	Equipment Type	Size Category	Requirement
	Part A: \$40.00 per ton for water cooled Part B: \$80.00 per ton for air-cooled	Air Cooled Chiller with Condenser	<150 tons	IPLV: 14.0 EER or higher
			>=150 tons	IPLV: 14.0 EER or higher
		Water Cooled Chiller electrically operated, reciprocating & positive displacement	<75 tons	IPLV: 0.52 OR LESS (kW/ton)
			>=75 and <150 tons	IPLV: 0.52 OR LESS (kW/ton)
			>=150 and <300 tons	IPLV: 0.49 OR LESS (kW/ton)
			>=300 tons	IPLV: 0.49 OR LESS (kW/ton)
		Water Cooled Chiller electrically operated, centrifugal	<150 tons	IPLV: 0.52 OR LESS (kW/ton)
			>=150 and <300 tons	IPLV: 0.52 OR LESS (kW/ton)
			>=300 and <600 tons	IPLV: 0.45 OR LESS (kW/ton)
			>=600 tons	IPLV: 0.45 OR LESS (kW/ton)

**NOTES:**

- 1) Only primary use chillers will qualify. Chillers intended for backup service only are not eligible.
- 2) Air-cooled chiller efficiencies must include condenser fan energy consumption.
- 3) Efficiency ratings for IPLV kW/ton must be based on ARI standard rating conditions per ARI-550-98 & ARI-590-98.
- 4) IPLV = Integrated Part Load Value.

SCHEDULE 89  
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY  
 (Continued)

PRESCRIPTIVE NEW CONSTRUCTION INCENTIVES (Continued)

<b>TABLE 8: AIR CONDITIONING (HVAC) FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS</b> (Continued)		
Measure Type	Incentive	Eligibility Requirements
Air Side Economizer	\$75.00 per ton of air conditioning economized	Applicable economizers must allow outdoor air capacity to meet at least 85% of an air conditioning unit's airflow rate coupled with a programmable thermostat capable of two-stage cooling controls.
Direct Evaporative Coolers	\$200.00 per ton	Installation of a direct evaporative cooling system. Evaporatively pre-cooled DX systems do not qualify under this measure.
Evaporative Pre-Cooler	\$20.00 per ton	Evaporative pre-cooler added to a standard air-cooled condenser

<b>TABLE 9: BUILDING SHELL FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS</b>		
Measure Type	Incentive	Eligibility Requirements
Reflective Roof Treatment	\$0.05 per square foot of roof treatment	Reflective roof treatments must meet a minimum initial solar reflectivity of 0.70 and a minimum emissivity of 0.75 consistent with California's Title 24 standards for flat or minimally pitched roofs.

<b>TABLE 10: CONTROLS FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS</b>		
Measure Type	Incentive	Eligibility Requirements
Energy Management Control System	Part A: \$70.00 per ton for 2-strategies Part B: \$80.00 per ton for 3-strategies Part C: \$90.00 per ton for 4-strategies Part D: \$100.00 per ton for 5-strategies	Systems must provide automatic control for cooling systems and incorporate specific strategies that result in energy savings over standard operation.
Guest Room Energy Management System	\$50.00 per ton of controlled cooling	Systems must provide occupancy based thermostatic set-back controls for the HVAC system. Eligible systems include, thermostat based controls, room key-card controls and system check-in/check-out controls.

SCHEDULE 89  
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY  
 (Continued)

PRESCRIPTIVE NEW CONSTRUCTION INCENTIVES (Continued)

<b>TABLE 10: CONTROLS FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS (Continued)</b>		
Measure Type	Incentive	Eligibility Requirements
HVAC Variable Speed Drives	Part A: \$ 60.00 per hp Part B: \$100.00 per hp Part C: \$200.00 per hp	Variable speed controls for fans, pumps and other variably-loaded electric HVAC motors Variable speed drive on HVAC system applications: Part A: \$60/hp <ul style="list-style-type: none"> <li>• Chilled water pumps</li> <li>• Condenser water pumps</li> <li>• Cooling tower fans</li> </ul> Part B: \$100/hp <ul style="list-style-type: none"> <li>• Supply fan</li> <li>• Return fan</li> <li>• Outside air fan</li> <li>• Make-up air fan</li> <li>• Hot water pumps</li> </ul> Part C: \$200/hp <ul style="list-style-type: none"> <li>• Potato/onion storage shed ventilation</li> </ul>
Demand Controlled Kitchen Ventilation Exhaust Hood	\$200.00 per hp	Variable speed drives installed for exhaust and/or makeup air fans on commercial kitchen hoods.

<b>TABLE 11: APPLIANCES WITH ELECTRIC WATER HEATING FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS</b>		
Measure Type	Incentive	Eligibility Requirements
Efficient Laundry Machines (Electric)	\$125.00 per unit	ENERGY STAR® clothes washer that has both electric water heating and uses an electric dryer
Efficient Undercounter Dishwashers (Electric)	\$200.00 per unit	Undercounter dishwasher that is ENERGY STAR® certified or better efficiency.
Efficient Commercial Dishwashers (Electric)	\$500.00 per unit	Doored, single or multi tank conveyor style dishwasher that is ENERGY STAR® certified or better efficiency and is located in fast food, pizza, full service restaurants or cafeterias.

SCHEDULE 89  
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY  
 (Continued)

PRESCRIPTIVE NEW CONSTRUCTION INCENTIVES (Continued)

<b>TABLE 12: REFRIGERATION FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS</b>		
Measure Type	Incentive	Eligibility Requirements
Refrigeration Head Pressure Controls	\$40.00 per compressor hp	Refrigeration systems with head pressure controls.
Refrigeration Floating Suction Controls	\$10.00 per compressor hp	Refrigeration systems with floating suction controls.
Efficient Refrigeration Condensers	\$20.00 per ton of refrigeration	Refrigeration condensers that incorporate specific strategies that result in energy savings over standard operation.

<b>TABLE 13: EQUIPMENT FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS</b>		
Measure Type	Incentive	Eligibility Requirements
Smart Power Strips	\$10.00 per power strip	Load-sensing, motion-sensing, or timer-controlled power strip.

Note: A Professional Assistance Incentive will be provided to a third-party architect or engineer that submits the application and provides the supporting documentation that is required to complete the application and incentive process. The professional is eligible for an incentive equal to 10% of the participant’s total incentive to a maximum amount of \$2,500.

CUSTOM INCENTIVES

QUALIFICATIONS

Project viability will be determined through a collaborative process involving the Company, a participating Customer, and if necessary, a qualified third party or the Customer’s licensed Professional Engineer. Potential projects will be evaluated for program eligibility based upon the following criteria:

1. The technology must be generally accepted cost-effective energy efficiency technology. This determination will be at the Company’s sole discretion.
2. Projects must not be started or equipment ordered until after the Customer has obtained written approval from the Company.
3. Projects must exceed the current established building code requirements or standard practice for the applicable industry as determined by the Company.
4. If there is no corresponding prescriptive measure available, then the project may be submitted for review by the Company and, if cost-effective, the project may be eligible for a financial incentive.

SCHEDULE 89  
COMMERCIAL AND INDUSTRIAL ENERGY EFFICIENCY  
(Continued)

CUSTOM INCENTIVE OPTIONS

Energy saving projects and measures that are not covered under prescriptive sections of this Schedule may be eligible for Custom Incentives based on the calculated energy savings. There are two incentive options available under the Custom Incentive; the Cost-Share option or the Self-Directed Funds option. The Cost-Share option is available to all Customers that meet the requirements of the Custom Incentive offering. The Self-Directed Funds option is available only to Customers taking service under Schedule 19. The maximum incentive payment will not exceed \$0.18 per first-year kilowatt-hour saved under either incentive option.

Option 1 - Cost-Share. Financial incentives are determined under the Cost-Share option using the lesser of the following two calculations:

1. Up to \$0.18 per first-year kilowatt-hours saved
2. 70% of eligible project costs

Option 2 - Self-Directed. Under the Self-Directed Funds option, the Customer's contributions to the Energy Efficiency Rider are tracked starting from the latter of the following: June 2005 or the last Cost-Share project paid and funds expected to accrue for a maximum of three years from the date the pre-application is received. Customers selecting this option will have direct use of 100% of the funds for implementation of cost-effective DSM projects. Any funds not utilized by the Customer will remain pooled with the rest of the Energy Efficiency Rider, Schedule 91, funds. Customers may combine individual account funds from multiple sites to implement cost-effective DSM projects under this option. Financial incentives are determined under the Self-Directed option using the lesser of the following two calculations:

1. Up to \$0.18 per first-year kilowatt-hours saved
2. 100% of eligible project costs

GREEN MOTORS INITIATIVE

The Green Motors Initiative employs industry best practices when rewinding motors (Green Rewind). The certified rewind process ensures that the motor maintains its original efficiency when the rewind is complete. Motors between 25 and 5,000 horsepower are eligible. Idaho Power pays participating service centers \$2.00 per horsepower for each motor that received a verified Green Rewind. Each motor receiving Green Rewind is verified by a non-profit trade organization, Green Motors Practice Group. Motors must be rewound in a certified participating service center that has the equipment and training to perform Green Rewind. For a current list of motor service centers offering Green Rewind please see <http://greenmotors.org/practicing.htm>.



SCHEDULE 80  
EASY UPGRADES PROGRAM

DISCONTINUED  
(SEE SCHEDULE 89 WHICH COMBINED  
SCHEDULES 80, 81, AND 83)

SCHEDULE 81  
CUSTOM EFFICIENCY  
PROGRAM

DISCONTINUED  
(SEE SCHEDULE 89 WHICH COMBINED  
SCHEDULES 80, 81, AND 83)

SCHEDULE 83  
BUILDING EFFICIENCY  
PROGRAM

DISCONTINUED  
(SEE SCHEDULE 89 WHICH COMBINED  
SCHEDULES 80, 81, AND 83)

SCHEDULE INDEX

<u>SCHEDULE</u>	<u>TITLE</u>	<u>SHEET NUMBER</u>
1	Residential Service .....	1-1 – 1-2
7	Small General Service .....	7-1 – 7-2
9	Large General Service .....	9-1 – 9-4
15	Dusk to Dawn Customer Lighting .....	15-1 – 15-2
19	Large Power Service .....	19-1 – 19-5
23	Irrigation Peak Rewards Program (Optional) .....	23-1 – 23-8
24	Agricultural Irrigation Service .....	24-1 – 24-5
27	Irrigation Efficiency Rewards Program .....	27-1 – 27-4
40	Nonmetered General Service .....	40-1 – 40-2
41	Street Lighting Service .....	41-1 – 41-4
42	Traffic Control Signal Lighting Service .....	42-1
55	Annual Power Cost Update .....	55-1 – 55-3
56	Power Cost Adjustment Mechanism .....	56-1 – 56-3
60	Off-Grid Solar Photovoltaic Service .....	60-1 – 60-6
61	Power Quality Program .....	61-1
62	Green Energy Purchase Program Rider (Optional) .....	62-1
66	Miscellaneous Charges .....	66-1 – 66-3
70	Appliance Recycling Program .....	70-1
71	Educational Distributions .....	71-1 – 71-2
72	Heating and Cooling Efficiency Program .....	72-1 – 72-2
73	Home Products Program (Optional) SUSPENDED .....	73-1
74	Residential Air Conditioner Cycling Program (Optional) .....	74-1 – 74-3
75	Simple Steps Smart Savings Programs .....	75-1 – 75-2
76	Flex Peak Program (Optional) .....	76-1 – 76-5
77	ENERGY STAR® Homes Northwest .....	77-1
78	Residential Energy Conservation Program .....	78-1 – 78-6
79	Weatherization Assistance for Qualified Customers Program .....	79-1
	Commercial Energy Conservation Services Program .....	82-1 – 82-3 (D)
84	Customer Energy Production Net Metering .....	84-1 (D)
85	Cogeneration and Small Power Production Standard Contract Rates .....	85-1 – 85-13
87	Manufactured Housing Energy Efficiency Programs .....	87-1
88	Solar Photovoltaic Pilot Program .....	88-1 – 88-6
89	Commercial and Industrial Energy Efficiency .....	89-1 – 89-13 (N)
91	Energy Efficiency Rider .....	91-1
92	Boardman Operating Life Adjustment .....	92-1
93	Solar Photovoltaic Pilot Program Rider .....	93-1
95	Adjustment for Municipal Exactions .....	95-1
98	Residential and Small Farm Energy Credit .....	98-1

**ATTACHMENT A**

**IDAHO POWER COMPANY**

**ADVICE NO. 16-08**

**REDLINE VERSIONS OF**

**SCHEDULES 80, 81, AND 83**

## **SCHEDULE 80**

**SCHEDULE 80  
EASY UPGRADES PROGRAM**

AVAILABILITY

Service under this schedule is available to commercial and industrial Customers throughout the Company's service area within the State of Oregon ~~taking service under Schedule 7, Schedule 9, or Schedule 19.~~

APPLICABILITY

This schedule is applicable to electric energy efficiency retrofit projects typical of commercial or industrial applications that meet the requirements of the Easy Upgrades Program.

PROGRAM DESCRIPTION

The Easy Upgrades Program is an incentive-based program designed to help cover a portion of the costs of installing energy efficiency features into existing commercial and industrial buildings. The Easy Upgrades Program provides incentives for six general energy efficiency project categories: lighting and lighting controls, heating ventilation and air conditioning (HVAC) systems, building shell, other commercial, food service equipment, and variable speed/frequency drives.

INCENTIVE STRUCTURE

Installed measures must meet the requirements of the Easy Upgrades Program as detailed in Tables 1 through 6 and must also comply with the current Program terms and conditions posted to the Program website at [www.idahopower.com/easyupgrades](http://www.idahopower.com/easyupgrades). Incentives will not be paid for measures required by Oregon code, mandated by federal standards, or otherwise required. Incentive payments will not exceed 100% of the installed cost for any specified measure.

**TABLE 1: RETROFIT - LIGHTING AND LIGHTING CONTROLS**

Equipment Category	Installing	Replacing	Incentive Per Unit Exterior/Interior
Standard T8 Fluorescents	2' or 3' T8 and electronic ballast (1 or more lamps)	2', 3' and 4' ( <i>u-bent</i> ) T12	\$ 8.00/10.00
	1-lamp 4' T8 and electronic ballast	1-lamp 4' T12	<del>\$ 22.00/44.00</del>
	1- or 2-lamp 4' T8 and electronic ballast	2-lamp 4' T12	<del>\$ 24.00/48.00</del>
	2- or 3-lamp 4' T8 and electronic ballast	3-lamp 4' T12	<del>\$ 32.00/64.00</del>
	2-, 3- or 4-lamp 4' T8 and electronic ballast	4-lamp 4' T12	<del>\$ 40.00/80.00</del>
	1- or 2-lamp 6' T8 and electronic ballast	1- or 2-lamp 6' T12	\$ 14.00/16.00
	1- or 2-lamp 6' T8 and electronic ballast (slimline & HO)	1- or 2-lamp 6' T12HO/VHO	\$ 14.00/16.00
	1- or 2-lamp 8' T8 and electronic ballast	1- or 2-lamp 8' T12	\$ 12.00/14.00
	2-, 3- or 4-lamp 8' T8 and electronic ballast	3- or 4-lamp 8' T12	\$ 24.00/28.00
	1- or 2-lamp 8' T8 and electronic ballast (slimline & HO)	1- or 2-lamp 8' T12HO/VHO	\$ 12.00/28.00
	2-, 3- or 4-lamp 8' T8 and electronic ballast (slimline & HO)	3- or 4-lamp 8' T12HO/VHO	\$ 24.00/36.00
	2-, 3- or 4-lamp 4' T8 and electronic ballast (tandem/retrofit)	1- or 2-lamp 8' T12	<del>\$ 22.00/44.00</del>
	2-, 3- or 4-lamp 4' T8 and electronic ballast (tandem/retrofit)	1- or 2-lamp 8' T12HO/VHO	<del>\$ 30.00/60.00</del>
High Performance T8 Fluorescents (Must meet CEE high performance T8 specifications)	4-lamp 4' T8 and electronic ballast	4-lamp 4' T12	<del>\$ 22.00/22.00</del>
	1- or 2-lamp 4' T8 and electronic ballast	2-lamp 4' T12	<del>\$ 24.00/24.00</del>
	2- or 3-lamp 4' T8 and electronic ballast	3-lamp 4' T12	<del>\$ 32.00/36.00</del>
	2-, 3- or 4-lamp 4' T8 and electronic ballast	4-lamp 4' T12	<del>\$ 40.00/40.00</del>
	2-, 3- or 4-lamp 4' T8 and electronic ballast (tandem/retrofit)	1- or 2-lamp 8' T12	<del>\$ 34.00/40.00</del>
	2-, 3- or 4-lamp 4' T8 and electronic ballast (tandem/retrofit)	1- or 2-lamp 8' T12HO/VHO	<del>\$ 45.00/55.00</del>

T5 (Non-HO) Fluorescents	1- or 2-lamp 4' T5 and electronic ballast 2-, 3- or 4-lamp 4' T5 and electronic ballast	1- or 2-lamp 4' T12 3- or 4-lamp 4' T12	\$ 14.00/20.00 \$ 24.00/45.00
-----------------------------	--	--	----------------------------------



SCHEDULE 80  
EASY UPGRADES PROGRAM  
(Continued)

INCENTIVE STRUCTURE (Continued)

TABLE 1: LIGHTING AND LIGHTING CONTROLS (Continued)

Equipment Category	Installing	Replacing	Incentive Per Unit Exterior/Interior
T5/T8 High Bay – New Fixture ( <i>Use of reflector recommended</i> )	4-lamp 4' T8 and electronic ballast	Fixture using $\geq 200$ input watts	\$ 75.00/85.00
	6-lamp 4' T8 and electronic ballast or 2-, 3- or 4-lamp 4' T5HO and electronic ballast	Fixture using 200-399 input watts	\$ 75.00/85.00
	4-, 6- or 8-lamp 4' T8 and electronic ballast or 4- or 6- lamp 4' T5HO and electronic ballast	Fixture using $\geq 400$ input watts	\$110.00/160.00
	10- or 12-lamp 4' T8 and electronic ballast or 8- or 10-lamp 4' T5HO and electronic ballast	Fixture using 751-1100 input watts	\$180.00/200.00
Fluorescent Delamping ( <i>Only applicable as standard measures</i> )	Delamping Fixture from T12 to 4' T8 (per lamp)	T12 Fixture	\$ 5.00/5.00
Reduced Wattage T8/T5HO ( <i>Only applicable as standard measures</i> )	Reduced wattage 4' T8 & T5HO lamps (per lamp) (ballast <i>must</i> be compatible)	T12 or HID	\$ n/a/1.00
Relamp T8/T5HO to Reduced Wattage T8/T5HO ( <i>Only applicable as standard measures</i> )	Reduced wattage 4' T8 lamps, 28W & 25W (per lamp) Reduced wattage 4' T8 lamps, 25W (per lamp) Reduced wattage 4' T5HO lamps, 47W-49W (per lamp) (In all above cases, ballast/lamps must be compatible)	4' T8, 32 watt 4' T8, 28 watt 4' T5HO, 54 watt	\$ n/a/1.00
Permanent Fixture Removal ( <i>Only applicable as standard measures</i> )	Permanent fixture removal as part of overall lighting retrofit project	Hardwired fixture using 50-299 input watts	\$ 15.00/20.00
	Permanent fixture removal as part of overall lighting retrofit project	Hardwired fixture $\geq 300$ input watts	\$ 25.00/30.00
Compact Fluorescents (CFLs) ( <i>Only available as a standard incentive</i> )	Screw-in compact fluorescent $\leq 32$ watt	Fixture using $\geq 40$ input watts	\$ 2.00/2.00
	Screw-in compact fluorescent 33-59 watt	Fixture using $\geq 100$ input watts	\$ 4.00/4.00
	Screw-in compact fluorescent $\geq 60$ watt	Fixture using $\geq 150$ input watts	\$ 20.00/20.00
	Screw-in cold-cathode $\leq 32$ watt	Fixture using $\geq 40$ input watts	\$ 4.00/4.00
Hard-wired compact fluorescent $\leq 49$ watts and electronic ballast	Fixture using $\geq 90$ input watts	\$ 30.00/45.00	
	Hard-wired compact fluorescent 50-99 watts and electronic ballast	Fixture using $\geq 150$ input watts	\$ 40.00/55.00
Light Emitting Diodes (LEDs) ( <i>Must be on DLC List, ENERGY STAR<sup>®</sup> Qualified Commercial LED List or LDL Regional LED List</i> )	Screw-in or pin-base LED <del><math>\leq 10</math> watts</del>	<del>Screw-in or pin-base lamp using higher wattage</del>	<del>\$0.16/0.25/watt reduced \$ 10.00/15.00</del>
	<del>Linear LED tube</del> Screw-in or pin-base LED 11-25 watts	<del>Fixture using <math>\geq 20</math> input watts</del> <del>Fluorescent lamp <math>&gt; 17</math> watts</del>	<del>\$ 1.50/foot</del>
	LED fixture or fixture retrofit kit	Fixture using higher wattage Fixture using $\geq 60$ input watts	\$0.12/0.18/kWh reduced \$ 25.00/30.00

SCHEDULE 80  
EASY UPGRADES PROGRAM  
(Continued)

INCENTIVE STRUCTURE (Continued)

TABLE 1: LIGHTING AND LIGHTING CONTROLS (Continued)

Equipment Category	Installing	Replacing	Incentive Per Unit Exterior/Interior
Ceramic/Pulse Start/Electronic Metal Halide	Screw-in reduced wattage metal halide ≥ 125 watt 150-230 input watts metal halide 150-230 input watts metal halide 231-360 input watts metal halide 361+ input watts metal halide	Metal halide using ≥ 250 input watts Fixture using 170-295 input watts Fixture using ≥ 296 input watts Fixture using ≥ 450 input watts Fixture using ≥ 600 input watts	\$ 25.00/25.00 \$ 30.00/65.00 \$ 30.00/100.00 \$ 55.00/115.00 \$105.00/200.00
LED Exit Signs	LED exit sign or equivalent (<5 watts)	Exit sign using ≥18 watts	\$ n/a/40.00
Lighting Controls <i>(Use of program start ballast recommended for lighting controls)</i>	Wall switch occupancy sensor	Manual or no prior control ≥ <del>40</del> <sup>25</sup> input watts	\$ <del>35.00</del> n/a/35.00
	<del>Wall or c</del> Ceiling mount occupancy sensor	Manual or no prior control ≥ <del>40</del> <sup>25</sup> input watts	\$ <del>50.00</del> n/a/60.00
	Fixture mount occupancy sensor	Manual or no prior control	\$ <del>50.00</del> n/a/50.00
	Interior photocell control (dimming, step-dimming or switching) <del>Auto-off time switch or time clock control (minimum of 100 watts connected load)</del>	Manual or no prior control <del>Manual or no prior control</del>	\$ n/a/50.00 <del>\$ n/a/45.00</del>
Refrigeration Case Lighting	Case # 1 – T8 fluorescent lighting and electronic ballast (per lamp)	Case # 1 – T12 fluorescent lighting	\$15.00
	Case # 2 – LED display case lighting (per linear foot)	Case # 2 – T12 fluorescent lighting	\$15.00
	Case #3 – LED display case lighting (per linear foot)	Case #3 – T8 fluorescent lighting	\$10.00
	<del>Case #4 – TLED display case lighting (per linear foot)</del>	<del>Case #4 – T12 fluorescent lighting</del>	<del>\$1.50</del>
	<del>Case #5 – TLED display case lighting (per linear foot)</del>	<del>Case #5 – T8 fluorescent lighting</del>	<del>\$1.50</del>

Table 1 Notes:

1. “Non-standard” incentives are available for cost-effective lighting measures not listed on Table 1. Non-standard interior lighting incentives will be calculated at \$0.18 per first year annual kilowatt-hour saved up to 70% of measure cost and exterior lighting incentives will be calculated at \$0.12 per first year annual kilowatt-hour saved up to 70% of measure cost.

2. Complete Lighting Upgrade incentive applies to projects where all the interior inefficient lighting is retrofitted with more efficient technologies, including the incorporation of controls, where applicable. The Complete Lighting Upgrade is a bonus incentive given in addition to the Company’s incentive calculation. This bonus incentive will be equal to five percent of the regular interior incentive amount.

SCHEDULE 80  
EASY UPGRADES PROGRAM  
(Continued)

INCENTIVE STRUCTURE (Continued)

TABLE 2: <b>RETROFIT - HVAC AND HVAC CONTROLS</b>			
Equipment category	Installing	Replacing	Incentive Per Unit
Air Conditioning (AC) Units	<del>≤4-5</del> ton AC unit that meets CEE Tier 2	Standard <del>≤4-5</del> ton AC/HP unit	\$ 75.00/ton
	<del>≥65-11</del> ton AC unit that meets CEE Tier 1	Standard <del>≥6-11</del> ton AC/HP unit	\$ 30.00/ton
	<del>≥65-11</del> ton AC unit that meets CEE Tier 2	Standard <del>≥65-11</del> ton AC/HP unit	\$ 75.00/ton
	<del>≥121-19</del> ton AC unit that meets CEE Tier 1	Standard <del>≥121-19</del> ton AC/HP unit	\$ 30.00/ton
	<del>≥121-19</del> ton AC unit that meets CEE Tier 2	Standard <del>≥121-19</del> ton AC/HP unit	\$ 75.00/ton
	<del>≥2019-25</del> ton AC unit that meets CEE Tier 1	Standard <del>≥2019-25</del> ton AC/HP unit	\$ 30.00/ton
	<del>≥2019-25</del> ton AC unit that meets CEE Tier 2	Standard <del>≥2019-25</del> ton AC/HP unit	\$ 75.00/ton
	<del>≥65-11</del> ton VRF unit that meets CEE Tier 1	Standard <del>≥65-11</del> ton AC/HP unit	\$ 75.00/ton
	<del>≥121-19</del> ton VRF unit that meets CEE Tier 1	Standard <del>≥121-19</del> ton AC/HP unit	\$ 75.00/ton
	<del>≥2019-25</del> ton VRF unit that meets CEE Tier 1	Standard <del>≥2019-25</del> ton AC/HP unit	\$ 75.00/ton
Heat Pump (HP) Units	<del>≤4-5</del> ton HP unit that meets CEE Tier 1	Standard <del>≤4-5</del> ton A/C/HP unit	\$ 30.00/ton
	<del>≥65-11</del> ton HP unit that meets CEE Tier 1	Standard <del>≥65-11</del> ton A/C/HP unit	\$ 30.00/ton
	<del>≥121-19</del> ton HP unit that meets CEE Tier 1	Standard <del>≥121-19</del> ton A/C/HP unit	\$ 30.00/ton
	<del>≥2019-25</del> ton HP unit that meets CEE Tier 1	Standard <del>≥2019-25</del> ton A/C/HP unit	\$ 30.00/ton
	<del>≥65-11</del> ton VRF unit that meets CEE Tier 1	Standard <del>≥65-11</del> ton A/C/HP unit	\$ 75.00/ton
	Chiller Units	<del>≥121-19</del> ton VRF unit that meets CEE Tier 1	Standard <del>≥121-19</del> ton A/C/HP unit
<del>≥2019-25</del> ton VRF unit that meets CEE Tier 1		Standard <del>≥2019-25</del> ton A/C/HP unit	\$ 75.00/ton
Air-cooled chiller <del>condenser</del> , IPLV 14.0 EER or higher		Standard air-cooled chiller	\$ 80.00/ton
Water-cooled chiller electronically operated, reciprocating and positive displacement: Up to 149 ton unit, IPLV: 0.52 or less (kW/ton) 150 ton or greater, IPLV: 0.49 or less (kW/ton) Water-cooled chiller electronically operated, centrifugal: Up to 299 ton unit, IPLV: 0.52 or less (kW/ton) 300 to 599 ton unit, IPLV: 0.45 or less (kW/ton)		Standard water-cooled chiller	\$ 40.00/ton
Economizers	Air side economizer control addition	No prior control	\$100.00/ton
	Air side economizer control repair	Non-functional economizer	\$50.00/unit

Evaporative Coolers/ <del>Pre-Coolers</del>	Retrofit to direct evaporative cooler <u>(Evaporative pre-cooled DX systems are not eligible)</u>	Standard AC unit	\$200.00/ton
Automated Control Systems	EMS controls with 2 strategies EMS controls with 3 strategies EMS controls with 4 strategies EMS controls with 5 strategies Lodging room occupancy controls	Proposed strategy not existing Proposed strategy not existing Proposed strategy not existing Proposed strategy not existing Manual controls	Retrofit System/New System \$125.00/ton/70.00/ton \$150.00/ton/80.00/ton \$175.00/ton/90.00/ton \$200.00/ton/100.00/ton \$ 75.00/ton
<u>Evaporative Pre-Cooler</u>	<u>Pre-cooler added to condenser</u>	<u>Standard air-cooled condenser</u>	<u>\$20/ton</u>
<u>Electronically Commutated Motor (ECM)</u>	<u>ECM motor in HVAC application</u>	<u>Shaded pole or permanent split capacitor motor</u>	<u>\$100/motor</u>
<u>Notched V-Belt in HVAC Applications</u>	<u>Type AX notched V-belt</u> <u>Type BX notched V-belt</u>	<u>Type A solid V-belt</u> <u>Type B solid V-belt</u>	<u>\$5.00/hp*</u> <u>\$5.00/hp*</u> <u>*Incentive capped at \$50/motor</u>

**SCHEDULE 80  
EASY UPGRADES PROGRAM  
(Continued)**

**INCENTIVE STRUCTURE (Continued)**

<b>TABLE 3: <u>RETROFIT - BUILDING SHELL</u></b>			
Equipment category	Installing	Replacing	Incentive
Premium Windows	Low U-value, U-factor of .30 or less	Standard windows	\$ 2.50/ft2 window area
Reflective Roofing	Adding reflective roof treatment	Non-reflective low pitch roof	\$ 0.05/ft2 roof area
Wall Insulation	Increase to R11 min. insulation	Insulation level, R2.5 or less	\$ 0.40/ft2 wall area
	Increase to R19 min. insulation	Insulation level, R2.5 or less	\$ 0.55/ft2 wall area

**Table 3 Notes:**

1. Windows must be installed in building with electric heat and mechanical cooling.
2. Insulation must be professionally installed by an insulation contractor.
3. Insulation must be installed in building with electric heat and mechanical cooling.

<b>TABLE 4: <u>RETROFIT - OTHER COMMERCIAL EQUIPMENT</u></b>			
Equipment category	Installing	Replacing	Incentive Per Unit
Computers	PC network power management	No central control software in place	\$ 10.00
Laundry Machines	High efficiency washer	Standard washer, electric HW	\$125.00
Stock Tank/Fountain	Energy free freeze resistant stock tank	Electric stock tank	\$100.00
Residential-type electric water heater	EF 0.94 or higher, 25-54 gallon EF 0.95 or higher, 45-54 gallon EF 0.93 or higher, 55-74 gallon EF 0.92 or higher, 75-99 gallon EF 0.85 or higher, 100-119 gallon	Standard electric water heater	\$ 50.00
Commercial-type electric water heater	25-34 gallon, standby loss 157 or lower 35-44 gallon, standby loss 185 or lower 45-54 gallon, standby loss 201 or lower 55-74 gallon, standby loss 238 or lower 75-99 gallon, standby loss 249 or lower 100-119 gallon, standby loss 287 or lower	Standard electric water heater	\$ 20.00
Commercial showerhead, electric water heat	2.0 gpm or less installed in health club/fitness business	Showerhead using 2.2 gpm or greater	\$ 15.00
	2.0 gpm or less installed in commercial business (non health club/fitness)	Showerhead using 2.2 gpm or greater	\$ 9.00
<u>Smart Power Strips</u>	<u>Load-sensing, motion-sensing, or timer-controlled power strip</u>	<u>No existing load or motion-sensing, or timer-controlled power strip</u>	<u>\$10/power strip</u>
<u>Standby Generator Engine Block Heater</u>	<u>Stationary pump-driven circulating block heater; must operate continuously.</u>	<u>Thermosiphon electric resistance circulating block heater</u> <u>&lt; 3 kW</u> <u>3 kW or greater</u>	<u>\$200/unit</u> <u>\$1,500/unit</u>

Table 4 Notes:

1. PC network power management incentive applies to desktop units only.

SCHEDULE 80  
EASY UPGRADES PROGRAM  
(Continued)

INCENTIVE STRUCTURE (Continued)

<b>TABLE 5: <u>RETROFIT</u> - FOOD SERVICE EQUIPMENT</b>			
Equipment category	Installing	Replacing	Incentive Per Unit
Refrigeration	Add refrigeration line insulation	No insulation present	\$ 2.00/linear foot
	Install auto-closer – walk-in	No/damaged auto-closer, low temp.	\$125.00/door
	Install auto-closer – reach-in	Damaged auto-closer, low temp.	\$100.00/door
	Install auto-closer – walk-in	No/damaged auto-closer, med. temp.	\$100.00/door
	Install auto-closer – reach-in	Damaged auto-closer, med. temp.	\$ 70.00/door
	Add anti-sweat heat controls	Low/med. temp. case w/out controls	\$ 40.00/linear foot
Evaporator Fans	Add evaporator fan controls	Low or med. temp. walk-in or reach-in with no controls	\$ 75.00/fan
	Install ECM/PSC evap fan motor	Med. or low temp. walk-in	\$100.00/motor
	Install ECM/PSC fan motor	Med. or low temp. reach-in	\$ 60.00/motor
Floating Head, Suction Pressures	Head pressure controller	Standard head pressure control	\$ 80.00/hp
	Suction pressure controller	Standard suction pressure control	\$ 20.00/hp
<u>Demand Controlled Kitchen Ventilation Exhaust Hood</u>	<u>VFD installed on kitchen exhaust and/or makeup air fan</u>	<u>Kitchen hood with constant speed ventilation motor</u>	<u>\$200/hp</u>
Vending Machines	Non-cooled snack control	Vending machine with no sensor	\$ 50.00
Commercial Kitchen Equipment	ENERGY STAR <sup>®</sup> undercounter dishwasher	Standard dishwasher	\$200.00
	ENERGY STAR <sup>®</sup> commercial dishwasher	Standard commercial dishwasher	\$500.00
	ENERGY STAR <sup>®</sup> listed electric combination oven (6-14 pans)	Standard electric oven	\$1,100.00
	ENERGY STAR <sup>®</sup> listed electric combination oven (15-20 pans)	Standard electric oven	\$300.00
	ENERGY STAR <sup>®</sup> listed electric convection oven	Standard electric oven	\$300.00
	ENERGY STAR <sup>®</sup> listed electric fryer	Standard fryer	\$400.00
	ENERGY STAR <sup>®</sup> listed electric steamer - 3 pan - 4 pan - 5 pan - 6 pan - 10 pan or larger	Standard steamer	\$ 80.00 \$100.00 \$150.00 \$175.00 \$200.00

SCHEDULE 80  
EASY UPGRADES PROGRAM  
 (Continued)

INCENTIVE STRUCTURE (Continued)

TABLE 6: <u>RETROFIT</u> - VARIABLE SPEED/FREQUENCY DRIVES			
Equipment category	Installing	Replacing	Incentive Per Unit
Variable Speed Controls	Variable speed drive on HVAC system applications: - Chilled water pumps - Condenser water pumps - Cooling tower fans	Single speed HVAC system fan/pump	\$ 60.00/hp
	Variable speed drive on HVAC fan applications: - Supply - Return - Outside air - Make-up air - Hot water pumps	Single speed HVAC system fan/pump	\$100.00/hp
	<u>Variable speed drive on potato and onion storage shed ventilation</u>	<u>No existing VSD</u>	<u>\$200.00/hp</u>



## **SCHEDULE 81**

SCHEDULE 81  
CUSTOM EFFICIENCY  
PROGRAM

AVAILABILITY

Service under this schedule is available to commercial and industrial Customers throughout the Company's service area within the State of Oregon ~~taking service under Schedules 9 and 19~~. This Schedule is also available to new commercial or industrial Customers ~~that will take service under Schedules 9 or 19~~ upon completion of an applicable project.

APPLICABILITY

This schedule is applicable to electric energy efficiency projects typical of commercial or industrial applications that meet the requirements of the Custom Efficiency Program.

PROGRAM DESCRIPTION

The Custom Efficiency Program is an incentive based program designed to encourage commercial and industrial Customers to install equipment, systems, or processes that increase the energy efficiency of their operations. Customers who wish to receive a financial incentive through this program are required to submit a pre-approval application for review by the Company to determine project eligibility and cost-effectiveness. The Custom Efficiency Program also encourages and assists commercial and industrial Customers to use electricity in an economically efficient manner through education and information, energy audit support, measurement and verification, the Green Motors Initiative, and other program offerings.

QUALIFICATIONS

Project viability will be determined through a collaborative process involving the Company, a participating Customer, and if necessary, a qualified third party or the Customer's licensed Professional Engineer. Potential projects will be evaluated for program eligibility based upon the following criteria:

1. The technology must be generally accepted cost-effective energy efficiency technology. This determination will be at the Company's sole discretion.
2. Projects must not be started or equipment ordered until after the Customer has obtained written approval from the Company.
3. Projects must exceed the current established building code requirements or standard practice for the applicable industry as determined by the Company.
4. ~~Projects must have the potential to save a minimum of 100,000 kilowatt-hours annually. If a project does not save a minimum of 100,000 kilowatt-hours annually and if there is~~ no corresponding prescriptive measure ~~is available under Schedule 80 — Easy Upgrades Program~~, then the project may be submitted for review by the Company and, if cost-effective, the project may be eligible for a financial incentive.

SCHEDULE 81  
CUSTOM EFFICIENCY  
PROGRAM

INCENTIVE OPTIONS

There are two incentive options available under the Custom Efficiency Program; the Cost-Share option or the Self-Directed Funds option. The Cost-Share option is available to all Customers that meet the requirements of the Custom Efficiency Program. The Self-Directed Funds option is available only to Customers taking service under Schedule 19. ~~Upon selecting an incentive option, Customers must remain committed to their selection until January 1, 2017.~~ The maximum incentive payment will not exceed \$0.18 per first-year kilowatt-hour saved under either Program incentive option.

Option 1 - Cost-Share. Financial incentives are determined under the Cost-Share option using the lesser of the following two calculations (with the exception of lighting retrofit projects which will be paid according to the Schedule 80, Easy Upgrades Program incentive structure):

1. Up to \$0.18 per first-year kilowatt-hours saved with the exception of lighting retrofit projects which will be paid according to the Schedule 80, Easy Upgrades Program incentive structure
2. 70% of eligible project costs

Option 2 - Self-Directed. Under the Self-Directed Funds option, the Customer's contributions to the Energy Efficiency Rider are tracked ~~starting from the latter of the following: June 2005 or the last Cost-Share project paid and funds expected to accrue for a maximum of three years from the date the pre-application is received.~~ Customers selecting this option will have direct use of 100% of the funds ~~expected to accrue until January 1, 2017,~~ for implementation of cost-effective DSM projects. Any funds not utilized by the Customer ~~for a specific project by January 1, 2017,~~ will remain pooled with the rest of the Energy Efficiency Rider, Schedule 91, funds. Customers may combine individual account funds from multiple sites to implement cost-effective DSM projects under this option. Financial incentives are determined under the Self-Directed option using the lesser of the following two calculations:

1. Up to \$0.18 per first-year kilowatt-hours saved
2. 100% of eligible project costs

GREEN MOTORS INITIATIVE

The Green Motors Initiative employs industry best practices when rewinding motors (Green Rewind). The certified rewind process ensures that the motor maintains its original efficiency when the rewind is complete. Motors between 25 and 5,000 horsepower are eligible. Idaho Power pays participating service centers \$2.00 per horsepower for each motor that received a verified Green Rewind. Each motor receiving Green Rewind is verified by a non-profit trade organization, Green Motors Practice Group. Motors must be rewound in a certified participating service center that has the equipment and training to perform Green Rewind. For a current list of motor service centers offering Green Rewind please see <http://greenmotors.org/practicing.htm>.

## **SCHEDULE 83**

SCHEDULE 83  
BUILDING EFFICIENCY  
PROGRAM

AVAILABILITY

Service under this schedule is available throughout the Company's service area within the State of Oregon to commercial ~~or industrial building~~ owners or developers who construct or remodel commercial ~~or industrial facilities~~ buildings that will take service under the Company's Schedule 7, Schedule 9, or Schedule 19 upon completion.

APPLICABILITY

This schedule is applicable to commercial buildings scheduled to undergo new construction, expansion, or major renovations. Applicable major renovations must include professional design services, substantial replacement of major building components, and be subject to review by code authorities.

PROGRAM DESCRIPTION

Building Efficiency is an incentive-based program designed to help cover a portion of the costs of designing and building energy efficiency features into commercial construction projects. Building Efficiency uses a prescriptive approach to provide incentives for specific lighting, air conditioning, building shell, and controls, appliances and refrigeration options.

INCENTIVE STRUCTURE

Incentives will not be paid for measures required by Oregon code, mandated by federal standards, or otherwise required. Incentive payments will not exceed 100% of the installed cost for any specified measure.

A Professional Assistance Incentive will be provided to a third-party architect or engineer that submits the application and provides the supporting documentation that is required to complete the application and incentive process. The professional is eligible for an incentive equal to 10% of the participant's total incentive to a maximum amount of \$2,500.

**TABLE 47: LIGHTING FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS**

<u>Measure Type</u>	<u>Incentive</u>	<u>Eligibility Requirements</u>
Interior Light Load Reduction	Part A: \$0.10 Part B: \$0.20 Part C: \$0.30 per square foot covered by the lighting	Lighting systems designed with a lighting power density (LPD) that is at least: Part A: 10-19.9% below the Oregon Energy Efficiency Specialty Code will be eligible for this incentive, or Part B: 20-29.9% below the Oregon Energy Efficiency Specialty Code or Part C: Equal to or greater than 30% below the Oregon Energy Efficiency Specialty Code will be eligible for this incentive.  A project that is at least 60% below code and/or has high operation hours can receive a non-standard interior lighting incentive at \$0.18 per kWh saved, up to 100% of the incremental cost between a base and efficient lighting system.
Exterior Light Load Reduction	\$200.00 per kW below code	Must be a minimum of 15% below the Oregon Energy Efficiency Specialty Code to qualify.
Daylight Photo Controls	\$0.25 per square foot of daylight space	Daylight photo controls dim or turn off electric lights in response to levels of natural daylight. To qualify for an incentive, the design must include a consultation with the Integrated Design Lab or other qualified daylighting professional.
Occupancy Sensors	\$25.00 per sensor installed	Occupancy sensors are automatic switching devices that sense human occupancy and control the lighting system accordingly. Either wall- or ceiling-mounted sensors are eligible.
High Efficiency Exit Signs	\$7.50 per installed sign	Any code compliant exit sign that draws less than 4 watts per sign face including, but not limited to, light emitting diode (LED), cold cathode, electroluminescent, or

		self-luminous exit signs are eligible for an incentive.
--	--	---

SCHEDULE 83  
BUILDING EFFICIENCY  
PROGRAM  
(Continued)

INCENTIVE STRUCTURE (Continued)

**TABLE 28: AIR CONDITIONING (HVAC) FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS**

Measure Type	Incentive	Eligibility Requirements				
Efficient Air-cooled AC, HP and VRF units	Part A: \$30.00 Part B: \$75.00 per ton of air conditioning	<u>Equipment Type</u>	<u>Size Category (single &amp; three phase units)</u>	<u>Sub-Category</u>	<u>Part A: \$30/ton</u>	<u>Part B: \$75/ton</u>
		Unitary Commercial Air Conditioners, Air Cooled (Cooling Mode)	<65,000 Btu/hr	Split system & single package	N/A	CEE Tier 2
			>=65,000 Btu/hr & <=300,000 Btu/hr	Split system & single package	CEE Tier 1	CEE Tier 2
		Heat Pumps, Air-Cooled (Cooling Mode)	<=300,000 Btu/hr	Split system & single package	CEE Tier 1	N/A
		Variable Refrigerant Flow Units	>=65,000 Btu/hr & <=300,000 Btu/hr	Multi-split AC or Heat Pump	N/A	CEE Tier 1

NOTE: Efficiency is based on AHRI and ISO standards.

SCHEDULE 83  
BUILDING EFFICIENCY  
PROGRAM  
(Continued)

INCENTIVE STRUCTURE (Continued)

<b>TABLE 28: AIR CONDITIONING (HVAC) FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS (Continued)</b>				
Measure Type	Incentive	Eligibility Requirements		
Efficient Chillers	Part A: \$40.00 per ton for water cooled	<u>Equipment Type</u>	<u>Size Category</u>	<u>Requirement</u>
	Part B: \$80.00 per ton for air-cooled			
		Air Cooled Chiller with Condenser	<150 tons	IPLV: 14.0 EER or higher
			>=150 tons	IPLV: 14.0 EER or higher
		Water Cooled Chiller electrically operated, reciprocating & positive displacement	<75 tons	IPLV: 0.52 OR LESS (kW/ton)
			>=75 and <150 tons	IPLV: 0.52 OR LESS (kW/ton)
			>=150 and <300 tons	IPLV: 0.49 OR LESS (kW/ton)
			>=300 tons	IPLV: 0.49 OR LESS (kW/ton)
		Water Cooled Chiller electrically operated, centrifugal	<150 tons	IPLV: 0.52 OR LESS (kW/ton)
			>=150 and <300 tons	IPLV: 0.52 OR LESS (kW/ton)
			>=300 and <600 tons	IPLV: 0.45 OR LESS (kW/ton)
			>=600 tons	IPLV: 0.45 OR LESS (kW/ton)
NOTES:				
1) Only primary use chillers will qualify. Chillers intended for backup service only are not eligible.				
2) Air-cooled chiller efficiencies must include condenser fan energy consumption.				
3) Efficiency ratings for IPLV kW/ton must be based on ARI standard rating conditions per ARI-550-98 & ARI-590-98.				
4) IPLV = Integrated Part Load Value.				
Air Side Economizer	\$75.00 per ton of air conditioning economized	Applicable economizers must allow outdoor air capacity to meet at least 85% of an air conditioning unit's airflow rate coupled with a programmable thermostat capable of two-stage cooling controls.		
Direct Evaporative Coolers	\$200.00 per ton	Installation of a direct evaporative cooling system. Evaporatively pre-cooled DX systems do not qualify under this measure.		
<u>Evaporative Pre-Cooler</u>	<u>\$20.00 per ton</u>	<u>Evaporative pre-cooler added to a standard condenser</u>		

<b>TABLE 39: BUILDING SHELL FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS</b>		
Measure Type	Incentive	Eligibility Requirements
Reflective Roof Treatment	\$0.05 per square foot of roof treatment	Reflective roof treatments must meet a minimum initial solar reflectivity of 0.70 and a minimum emissivity of 0.75 consistent with California's Title 24 standards for flat or minimally pitched roofs.



SCHEDULE 83  
BUILDING EFFICIENCY  
PROGRAM  
(Continued)

INCENTIVE STRUCTURE (Continued)

**TABLE 410: CONTROLS FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS**

<u>Measure Type</u>	<u>Incentive</u>	<u>Eligibility Requirements</u>
Energy Management Control System	Part A: \$70.00 per ton for 2-strategies Part B: \$80.00 per ton for 3-strategies Part C: \$90.00 per ton for 4-strategies Part D: \$100.00 per ton for 5-strategies	Systems must provide automatic control for cooling systems and incorporate specific strategies that result in energy savings over standard operation.
Guest Room Energy Management System	\$50.00 per ton of controlled cooling	Systems must provide occupancy based thermostatic set-back controls for the HVAC system. Eligible systems include, thermostat based controls, room key-card controls and system check-in/check-out controls.
VAC Variable Speed Drives	Part A: \$60.00 per hp Part B: \$100.00 per hp <u>Part C: \$200.00 per hp</u>	Variable speed controls for fans, pumps and other variably-loaded electric HVAC motors Variable speed drive on HVAC system applications: Part A: \$60/hp <ul style="list-style-type: none"> <li>• Chilled water pumps</li> <li>• Condenser water pumps</li> <li>• Cooling tower fans</li> </ul> Part B: \$100/hp <ul style="list-style-type: none"> <li>• Supply fan</li> <li>• Return fan</li> <li>• Outside air fan</li> <li>• Make-up air fan</li> <li>• Hot water pumps</li> </ul> <u>Part C: \$200/hp</u> <ul style="list-style-type: none"> <li>• <u>Potato/onion storage shed ventilation</u></li> </ul>
<u>Demand Controlled Kitchen Ventilation Exhaust Hood</u>	<u>\$200.00 per hp</u>	<u>Variable speed drives installed for exhaust and/or makeup air fans on commercial kitchen hoods.</u>

**TABLE 511: APPLIANCES WITH ELECTRIC WATER HEATING FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS**

<u>Measure Type</u>	<u>Incentive</u>	<u>Eligibility Requirements</u>
Efficient Laundry Machines (Electric)	\$125.00 per unit	Clothes washer that is ENERGY STAR® certified or better efficiency in commercial applications that have both electric water heating and electric dryers.
Efficient Undercounter Dishwashers (Electric)	\$200.00 per unit	Undercounter dishwasher that is ENERGY STAR® certified or better efficiency.

Efficient Commercial Dishwashers (Electric)	\$500.00 per unit	Doored, single or multi tank conveyor style dishwasher that is ENERGY STAR® certified or better efficiency and is located in fast food, pizza, full service restaurants or cafeterias.
---	-------------------	--

SCHEDULE 83  
BUILDING EFFICIENCY  
PROGRAM  
(Continued)

## INCENTIVE STRUCTURE (Continued)

<b>TABLE 612: REFRIGERATION FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS</b>		
<u>Measure Type</u>	<u>Incentive</u>	<u>Eligibility Requirements</u>
Refrigeration Head Pressure Controls	\$40.00 per compressor hp	Refrigeration systems with head pressure controls.
Refrigeration Floating Suction Controls	\$10.00 per compressor hp	Refrigeration systems with floating suction controls.
Efficient Refrigeration Condensers	\$20.00 per ton of refrigeration	Refrigeration condensers that incorporate specific strategies that result in energy savings over standard operation.

<b>TABLE 13: EQUIPMENT FOR NEW CONSTRUCTION, EXPANSION, OR MAJOR RENOVATIONS</b>		
<u>Measure Type</u>	<u>Incentive</u>	<u>Eligibility Requirements</u>
<u>Smart Power Strips</u>	<u>\$10.00 per power strip</u>	<u>Load-sensing, motion-sensing, or timer-controlled power strip.</u>