
Washington FinAnswer Express

This document includes the following three sections:

- Definitions of terms used in Schedule 115 and other program documents
- Incentives – General Information
- Incentive tables

Definitions

Commercial Building: A structure that is served by Pacific Power and meets the applicability requirements of Washington Schedule 115, the program tariff, on file with the Washington Utilities & Transportation Commission at the time an Energy Efficiency Incentive Agreement is executed or an Energy Efficiency Incentive Application is submitted and which does not meet the definition of an Industrial Facility.

Customer: Any party who has applied for, been accepted and receives service at the real property, or is the electricity user at the real property.

Energy Efficiency Incentive: Payments of money made by Pacific Power to Owner or Customer for installation of an Energy Efficiency Measure pursuant to an executed Energy Efficiency Incentive Agreement or approved Energy Efficiency Incentive Application.

Energy Efficiency Incentive Agreement: An agreement between Owner or Customer and Pacific Power providing for Pacific Power to furnish Energy Efficiency Incentives for an Energy Efficiency Project.

Energy Efficiency Incentive Application: An application submitted by Owner or Customer to Pacific Power for Energy Efficiency Incentives.

Energy Efficiency Measure (EEM): A permanently installed measure which can improve the efficiency of the Customer's electric energy use.

Energy Efficiency Measure (EEM) Cost:

- New Construction/Major Renovation: EEM Cost is the total installed cost of energy efficiency equipment or system minus the cost of the code compliance/common practice equipment or system.
- Retrofit: EEM Cost is the total installed cost of the energy efficiency equipment or modification. In the case of New Construction, Major Renovations, and Retrofits, EEM Costs shall mean the Owner or Customer's reasonable costs incurred (net of any discounts, rebates or incentives other than Energy Efficiency Incentives from Pacific Power, or other consideration that reduces the final actual EEM Cost incurred by the Owner or Customer) to purchase and install EEMs at the Owner's or Customer's facility. If the Owner or Customer installs the EEM then the cost of installation shall be equal to the Owner's or Customer's actual labor costs for such installation.

Energy Efficiency Project: One or more EEM(s) with similar one year payback limitations (see below) covered by one Energy Efficiency Incentive Agreement.

Energy Efficiency Project Cost: The sum of EEM Costs for one or more EEM(s) with similar one year payback limitations (see below) covered by one Energy Efficiency Incentive Agreement.

Industrial Facility: Buildings and process equipment associated with manufacturing.

Major Renovation: A change in facility use type or where the existing system will not meet Owner/Customer projected requirements within existing facility square footage.

Mixed Use: Buildings served by a residential schedule and a rate schedule listed under **Applicable** in Washington Schedule 115 shall be eligible for services under this schedule provided the Energy Efficiency Project meets the definition of New Construction or Major Renovation.

New Construction: A newly constructed facility or newly constructed square footage added to an existing facility.

Owner: The person who has both legal and beneficial title to the real property, and is the mortgager under a duly recorded mortgage of real property, the trustor under a duly recorded deed of trust.

Retrofit: Changes, modifications or additions to systems or equipment in existing facility square footage.

Incentives – General Information

Prescriptive incentives

Per unit incentives are listed in the program incentive tables for specific Energy Efficiency Measures (EEMs) and are subject to the incentive caps below. Incentives are subject to change and current incentives can be found at www.pacificpower.net.

Custom incentives

Energy Efficiency Measures not listed in the incentive tables may be eligible for a Custom Energy Efficiency Incentive. Pacific Power will complete an analysis of the EEM Cost and electric energy savings and determine whether to offer a custom Energy Efficiency Incentive and the incentive amount. The custom Energy Efficiency Incentive is Pacific Power's estimate of annual electric savings multiplied by \$0.10/kWh and subject to the incentive caps described below.

Electric savings resulting from lighting interaction with mechanical equipment is not eligible for a custom Energy Efficiency Incentive.

The baseline wattage for all retrofit linear fluorescent lighting EEMs ~~not listed in the Retrofit Lighting Incentive Table~~ is the lesser of

- a) ~~Existing Wattage of existing~~ equipment, or
- b) Wattage of deemed baseline ~~Energy efficient magnetic~~ ballast and ~~energy saving~~ lamp combination listed in the lighting wattage table available on the Washington energy efficiency program section of the Pacific Power website.

Pacific Power may adjust baseline electric energy consumption and costs to reflect any of the following: energy codes, standard practice, changes in capacity, changes in production or facility use and equipment at the end of its useful life. Such adjustments may be made for lighting energy efficiency measures installed in new construction projects where energy code does not apply.

Incentive caps

	Percent of Energy Efficiency Project Cost Cap	1 Year Simple Payback Cap for Energy Efficiency Projects
Measures Listed in Incentive Tables		
Lighting - Retrofit	60 70%	Yes
Lighting - New Construction/ Major Renovation	None	No
Motors	None	No
HVAC	None	No
Building Envelope	None	No
Food Service	None	No
Appliances	None	No
Irrigation (see note)	None	No
Dairy/Farm Equipment	None	No
Compressed Air	None	No
Other Energy Efficiency Measures (see note)	None	No
Measures Not Listed in Incentive Tables		
Lighting - New Construction/ Major Renovation Measures Receiving a Custom Incentive	None	No
Other Measures Receiving a Custom Incentive	60 70%	Yes

1. The 1 year simple payback cap means Energy Efficiency Incentives will not be available to reduce the simple payback of an Energy Efficiency Project below one year. If required, individual EEM Energy Efficiency Incentives will be adjusted downward pro-rata so the Energy Efficiency Project has a simple payback after incentives of one year or more.
2. EEM Costs are subject to Pacific Power review and approval and Pacific Power may require additional documentation from the Customer or Owner.
3. Two irrigation Energy Efficiency Measures have a measure cost cap. See the Irrigation Equipment incentive table for details.
4. The Network PC Power Management Software measure has a measure cost cap. See the Other Energy Efficiency Measures incentive table for details.

Retrofit Lighting Incentive Table

<u>Measure</u>	<u>Category</u>	<u>Eligibility Requirements</u>	<u>Incentive</u>
<u>T8 Fluorescent</u>	<u>Standard</u>	<u>4' Lamp < 32 Watts, Electronic ballast with Ballast Factor < 0.88 (See Note 3)</u>	<u>\$3/Lamp</u>
	<u>Premium</u>	<u>4' CEE Qualified Reduced Wattage or High Performance Lamp and CEE Qualified Ballast included on qualified ballast list</u>	<u>\$7/Lamp</u>
	<u>Delamp</u>	<u>4' CEE Qualified Reduced Wattage or High Performance Lamp and CEE Qualified Ballast. Must remove one or more lamps and corresponding sockets within the same fixture.</u>	<u>\$21/Lamp Removed</u>
	<u>Relamp</u>	<u>Lamp wattage reduction ≥ 3 Watts, No ballast retrofit</u>	<u>\$0.25/Lamp</u>
	<u>High Bay</u>	<u>4' CEE Qualified High Performance Lamp. Must replace T12HO, Incandescent, or HID in a high ceiling application</u>	<u>\$20/Lamp</u>
<u>T5 Fluorescent</u>	<u>Standard</u>	<u>4' Nominal Lamp < 28 Watts, Ballast Factor < 1.0.</u>	<u>\$5/Lamp</u>
	<u>Relamp</u>	<u>Lamp wattage reduction ≥ 3 Watts, No ballast retrofit</u>	<u>\$0.25/Lamp</u>
	<u>High Bay</u>	<u>4' Nominal High Output Lamp</u>	<u>\$20/Lamp</u>
<u>Cold Cathode</u>	<u>Screw-in Lamp</u>	<u>All wattages</u>	<u>\$5/Lamp</u>
<u>Compact Fluorescent Lamp (CFL)</u>	<u>Hardwired Fixture</u>	<u>All wattages</u>	<u>\$5/Fixture</u>
<u>Ceramic Metal Halide (CMH)</u>	<u>CMH Fixture</u>	<u>All wattage</u>	<u>\$35/Fixture</u>
<u>Pulse Start Metal Halide (PSMH)</u>	<u>PSMH Fixture</u>	<u>Wattages > 500W</u>	<u>\$60/Fixture</u>
	<u>Electronic Ballast</u>	<u>Must be used in place of or replace a magnetic ballast</u>	<u>\$20/Ballast</u>
<u>Induction</u>	<u>Induction Fixture</u>	<u>All wattages, New fixtures only</u>	<u>\$125/Fixture</u>
<u>LED</u>	<u>Integral Screw-in Lamp</u>	<u>LED must be listed on qualified equipment list</u>	<u>\$10/Lamp</u>
	<u>Recessed Downlight</u>	<u>LED must be listed on qualified equipment list</u>	<u>\$10/Fixture</u>
	<u>Outdoor Area and Roadway</u>	<u>LED must be listed on qualified equipment list</u>	<u>\$100/Fixture</u>
	<u>Parking Garage</u>	<u>LED must be listed on qualified equipment list</u>	<u>\$100/Fixture</u>
	<u>High and Low Bay</u>	<u>LED must be listed on qualified equipment list</u>	<u>\$100/Fixture</u>

Notes for retrofit lighting incentive table

1. To be eligible for the incentives listed, the new lighting system must use less energy than the existing lighting system replaced or the baseline lighting system as determined by Pacific Power.
2. Incentives are capped at 70 percent of Energy Efficiency Project Costs and subject to the one-year payback cap.
3. The incentive for Standard T8 Fluorescent will no longer be available effective July 14, 2012.
4. Two-foot U-tube lamps may be substituted for four-foot linear fluorescent lamps.
5. Incentives for T8 Premium Delamps may not be combined with other linear fluorescent lamp or fixture incentives. Complete fixture removals are not eligible.
6. Incentives for T8 Relamps may not be combined with other linear fluorescent lamp or fixture incentives and will only be paid once per facility.
7. Qualified equipment lists referenced in the table are posted on the Washington energy efficiency program section of Pacific Power's website.

BF = Ballast Factor

CEE = Consortium for Energy Efficiency

CFL = Compact Fluorescent Lamp

CMH = Ceramic Metal Halide

HID = High Intensity Discharge (e.g. Mercury Vapor, High Pressure Sodium, Metal Halide)

HO = High Output

LED = Light-Emitting Diode

PSMH = Pulse-Start Metal Halide

Category	Replace	With	Retrofit Incentive
Fluorescent Fixture Upgrade to Standard T8 Fixtures (Standard T8 lamps and electronic ballasts with ballast factor (BF) ≤ 0.88)	4' - 1 or 2 T12 lamp(s) + 1 magnetic ballast (MB)	4' - 1 or 2 T8 lamps + 1 electronic ballast (EB)	\$6
	4' - 3 or 4 T12 lamp(s) + MB(s)	4' - 3 or 4 T8 lamps + EB	\$12
	8' - 1 or 2 T12 lamp(s) + MB(s)	4' - 2, 3 or 4 T8 lamps + EB	\$12
	8' - 1,2,3 or 4 T12 lamps + MB(s)	8' - 1,2,3 or 4 T8 lamps + EB	\$12

Category	Replace	With	Retrofit Incentive
	8' - 1, 2, 3 or 4 T12 HO/VHO lamps + MB(s)	8' - 1, 2, 3, or 4 T8 HO/VHO lamps + EB(s)	\$18
Fluorescent Fixture Upgrade to 4' Premium T8 Fixtures [Lamps with initial lumens ≥ 3100 or wattage ≤ 30 W; electronic ballasts with BF ≤ 0.8]	4' - 1 or 2 T12 lamp(s) + MB or Standard T8 lamp(s) + EB	4' - 1 or 2 Premium T8 lamp(s) + EB	\$12
	4' - 3 or 4 T12 lamps + MB(s) or Standard T8 lamps + EB	4' - 3 or 4 Premium T8 lamps + EB	\$18
	8' - 1 or 2 T12 lamp(s) + MB(s)	4' - 2, 3 or 4 Premium T8 lamps + EB	\$20
Fluorescent Delamping and Standard T8 Fixture Upgrade [Standard T8 lamps and electronic ballasts (EB) with BF ≤ 0.88 - Fixture removal is not eligible]	4' - 2 T12 lamps + MB	4' - 1 Standard T8 lamp + EB	\$12
	4' - 3 T12 lamps + MB(s)	4' - 2 or 1 Standard T8 lamp + EB	\$18
	4' - 4 T12 lamps + MB(s)	4' - 3 Standard T8 lamps + EB	\$18
	4' - 4 T12 lamps + MB(s)	4' - 2 or 1 Standard T8 lamp + EB	\$30
Fluorescent Delamping and Premium T8 Fixture Upgrade [Lamps with initial lumens ≥ 3100 or wattage ≤ 30 W; electronic ballasts with BF ≤ 0.8 - Fixture removal is not eligible]	4' - 2 T12 lamps + MB	4' - 1 Premium T8 lamp + EB	\$18
	4' - 3 T12 lamps + MB(s)	4' - 1 or 2 Premium T8 lamp + EB	\$24
	4' - 4 T12 lamps + MB(s)	4' - 3 Premium T8 lamps + EB	\$24
	4' - 4 T12 lamps + MB(s)	4' - 1 or 2 Premium T8 lamp + EB	\$35
T8 Fluorescent Lamp Upgrade	≥ 32 W T8 lamp	≤ 30 W T8 lamp	\$0.50
Compact Fluorescent Lighting (CFL)	Incandescent	< 10 W (nominal) CFL hardwire fixture	\$10
	Incandescent	≥ 10 W and < 20 W (nominal) CFL hardwire fixture	\$15
	Incandescent	≥ 20 W (nominal) CFL hardwire fixture	\$20
T5 Fluorescent Fixture Upgrade	≥ 250 W MH, MV, or HPS	3 T5HO lamps (nominal 4') + EB (High Bay)	\$70
	≥ 400 W MH, MV, or HPS	4, 5, or 6 T5HO lamps (nominal 4') + EB (High Bay)	\$75
	≥ 750 W MH, MV, or HPS	≥ 8 T5HO lamps (nominal 4') + EB(s)	\$110
	4' - 4 T12 lamps + MB(s)	2 T5 lamps (nominal 4') + EB (interior fixtures)	\$30
	4' - 4 T12 lamps + MB(s)	2 T5HO lamps (nominal 4') + EB (interior fixtures)	\$25
High Intensity Discharge (HID) Upgrades Based on lamp wattages	Incandescent or tungsten	≤ 100 W Ceramic Metal Halide	\$25
	≥ 400 W MH, MV, or HPS	≤ 320 W Ceramic Metal Halide	\$100
	≥ 750 W MH, MV, or HPS	≤ 400 W Ceramic Metal Halide	\$120
	≥ 150 W and ≤ 250 W MH, MV, or HPS, or ≥ 150 W incandescent	≥ 125 W and ≤ 175 W Pulse Start MH	\$50
	≥ 250 W and ≤ 400 W MH, MV, or HPS	≥ 175 W and ≤ 320 W Pulse Start MH	\$60
	≥ 400 W MH, MV, or HPS	≤ 400 W Pulse Start MH	\$100
	≥ 1000 W MH, MV, or HPS	≤ 750 W Pulse Start MH	\$100
	≥ 250 W & < 750 W MH, MV, or HPS	4' - 4, 5, or 6 T8 lamps + EB(s) (High Bay)	\$75

Category	Replace	With	Retrofit Incentive
	≥750-W MH, MV or HPS	4' ≥ 8 lamp T8 + EB(s) (High Bay)	\$100
Exit Signs	Incandescent or fluorescent exit sign	Light Emitting Diode (LED) or Electro luminescent (EL) exit sign — 1 or 2 faced	\$15
	Incandescent or fluorescent exit sign	Photoluminescent or Tritium	\$20
Lighting Controls	Wall switch or no control	Wall or Ceiling Mounted Occupancy Sensor (per sensor)	\$35
	Wall switch or no control	Integral occupancy sensor	\$30
	Wall switch or no control	Photo cell (per sensor) (exterior lights only)	\$20
	No control	Time clock (per control)	\$20
	Wall switch or no control	Daylighting control	\$0.10/ ^{hr} connected Watt
	Wall switch or no control	Advanced/integrated daylighting control	\$30
	Wall switch or no control	Bi-level controlled fixtures with integral occupancy sensor (per fixture)	\$35
LED Lighting	Indoor incandescent, neon, or fluorescent signage	LED channel letter signage ≤ 2' high	\$4/linear foot
		LED channel letter signage > 2' high	\$6/linear foot
	Outdoor incandescent, neon, or fluorescent signage	LED channel letter signage ≤ 2' high	\$2/linear foot
		LED channel letter signage > 2' high	\$3/linear foot
	Fluorescent refrigeration case lighting	LED case lighting	\$10/linear foot
	Incandescent, neon or fluorescent signage	LED fixed or scrolling message center signage	See Note 7

Notes for Retrofit lighting incentives:

- ~~1. Incentives are capped at 60 percent of Energy Efficiency Project Costs and subject to the one-year payback cap.~~
- ~~2. 2' U-tube lamps may be substituted for 4' linear fluorescent lamps in the above table.~~
- ~~3. For retrofits of existing equipment, lighting incentives will be paid on a one-for-one equipment replacement basis. If fixture counts are changing, the project may be eligible for a custom Energy Efficiency Incentive.~~
- ~~4. Incentives for T8 Fluorescent Lamp Upgrades may not be combined with other fluorescent fixture incentives and will only be paid once per facility.~~
- ~~5. T8 HO/VHO and High Bay T-8 electronic ballasts are required to have a $BF \leq 1.2$ to be eligible for incentives.~~
- ~~6. To determine the length of LED channel letter signs, measure the length of individual letter at the centerline and add the individual values; do not measure the distance between letters.~~
- ~~7. LED fixed or scrolling message center signage incentives are \$0.10 per kilowatt-hour of annual energy savings—see note 1. Savings is subject to Pacific Power approval.~~
- ~~8. Incentives are not available for LED traffic light upgrades.~~
- ~~9. Lighting equipment listed only in the “Replace” column is not eligible for incentives.~~
- ~~10. Incentives are available via an Energy Efficiency Incentive Agreement signed prior to ordering new equipment.~~

~~CFL = Compact Fluorescent Lamp~~

~~MH = Metal Halide~~

~~MV = Mercury Vapor~~

- ~~11. center signage incentives are \$0.10 per kilowatt-hour of annual energy savings—see note 1. Savings is subject to Pacific Power approval.~~

~~12. Incentives are not available for LED traffic light upgrades.~~

~~13. Lighting equipment listed only in the “Replace” column is not eligible for incentives.~~

~~14. Incentives are available via an Energy Efficiency Incentive Agreement signed prior to ordering new equipment.~~

~~CFL = Compact Fluorescent Lamp~~

~~MH = Metal Halide~~

~~MV = Mercury Vapor~~

~~HPS = High Pressure Sodium~~

~~HO = High Output~~

~~VHO = Very High Output~~

~~LED = Light emitting diode~~

Lighting Controls and Non-General Illuminance Lighting

<u>Measure</u>	<u>Category</u>	<u>Eligibility Requirements</u>	<u>Incentive</u>
<u>Lighting Control</u>	<u>Occupancy Control</u>	<u>PIR, Dual Tech, or Integral Sensor</u>	<u>\$75/Sensor</u>
	<u>Daylighting Control</u>	<u>Must control fixtures with qualifying dimming ballast(s)</u>	<u>\$75/Sensor</u>
	<u>Advanced Daylighting Control</u>	<u>Must incorporate both an occupancy sensor and daylighting sensor operating as part of the same control sequence in the same space.</u>	<u>\$150</u>
	<u>Timeclock</u>	<u>Must control on/off schedule of lighting equipment</u>	<u>\$20/timeclock</u>
	<u>Dimming Ballast</u>	<u>Continuous, Stepped, or Bi-level ballast or automated control that dims 50% or more of the fixture. Must be controlled by a qualifying occupancy or daylighting control.</u>	<u>\$15/Ballast</u>
<u>Non-General Illuminance</u>	<u>Exit Sign</u>	<u>LED or photoluminescent replacing incandescent or fluorescent</u>	<u>\$15/Sign</u>
	<u>LED Message Center Sign</u>	<u>LED replacing existing incandescent signage</u>	<u>\$5/Lamp</u>
	<u>LED Channel Letter Sign</u>	<u>LED replacing existing neon or fluorescent signage</u>	<u>\$5/Linear Foot</u>
	<u>LED Marquee/Cabinet Sign</u>	<u>LED replacing existing fluorescent signage</u>	<u>\$5/Linear Foot</u>

Notes for lighting controls and non-general illuminance lighting incentive table:

1. To be eligible for the incentives listed, the new lighting system must use less energy than the existing lighting system replaced.
2. Incentives are capped at 70 percent of Energy Efficiency Project Costs and incentives will not be available to reduce the Energy Efficiency Project simple payback below one year.
3. Incentives for Advanced Daylighting Controls may not be combined with other lighting control incentives.

PIR = Passive Infrared

Dual Tech = Sensors combining ultrasonic and passive infrared

LED - Light-emitting Diode

New Construction/Major Renovation Lighting Incentive Table

<u>Measure</u>	<u>Category</u>	<u>Eligibility Requirements</u>	<u>Incentive</u>
<u>Interior Lighting</u>	<u>Lighting and Lighting Control</u>	<p>1. The total connected interior lighting power for New Construction/Major Renovation projects must be 10% lower than the interior lighting power allowance calculated under the applicable version of the State energy code. For New Construction/Major Renovation projects not included in the state energy code, the total connected lighting power must be 10% lower than common practice as determined by Pacific Power.</p> <p>2. Energy savings is subject to approval by Pacific Power</p>	<u>\$0.08/kWh annual energy savings</u>
<u>Exterior Lighting</u>	<u>Induction Fixture</u>	<u>All Wattages, New Fixtures Only</u>	<u>\$125/Fixture</u>
	<u>LED Outdoor Area and Roadway</u>	<u>LED must be listed on qualified fixture list</u>	<u>\$100/Fixture</u>
	<u>LED Parking Garage</u>	<u>LED must be listed on qualified fixture list</u>	<u>\$100/Fixture</u>
	<u>Lighting Control</u>	<u>Integral occupancy sensor which must control a linear fluorescent, induction, or LED fixture. Sensor must be installed on a continuous duty light</u>	<u>\$75/sensor</u>

<u>Category</u>	<u>Install</u>	<u>Incentive</u>
<u>Premium T8 Fluorescent Fixture Upgrade (Lamps with initial lumens \geq3100 or wattage \leq30 W; electronic ballasts with BF \leq0.8)</u>	<u>4' - 1 or 2 Premium T8 lamp(s) + EB</u>	<u>\$7</u>
	<u>4' - 3 or 4 Premium T8 lamps + EB</u>	<u>\$10</u>
<u>T5 Fluorescent Fixture Upgrade</u>	<u>2 T5HO lamps (nominal 4') + EB (interior fixtures)</u>	<u>\$24</u>
	<u>3 T5HO lamps (nominal 4') + EB (High Bay)</u>	<u>\$48</u>
	<u>4-7 T5HO lamps (nominal 4') + EB(s) (High Bay)</u>	<u>\$60</u>
	<u>\geq 8 T5HO lamps (nominal 4') + EB(s) (High Bay)</u>	<u>\$80</u>
	<u>1 T5 lamp (nominal 4') + EB (interior fixtures)</u>	<u>\$12</u>
	<u>2 T5 lamps (nominal 4') + EB (interior fixtures)</u>	<u>\$30</u>
	<u>3 T5 lamps (nominal 4') + EB (interior fixtures)</u>	<u>\$36</u>

Premium Efficiency Motors Incentive Table

Horsepower	Customer Incentive (\$/motor)	Nominal Full-Load Efficiencies (%)					
		1200-RPMs		1800-RPMs		3600-RPMs	
		Open-Drip-Proof (ODP)	Totally Enclosed Fan-Cooled (TEFC)	Open-Drip-Proof (ODP)	Totally Enclosed Fan-Cooled (TEFC)	Open-Drip-Proof (ODP)	Totally Enclosed Fan-Cooled (TEFC)
1	\$45	82.5	82.5	85.5	85.5	77.0	77.0
1.5	\$45	86.5	87.5	86.5	86.5	84.0	84.0
2	\$54	87.5	88.5	86.5	86.5	85.5	85.5
3	\$54	88.5	89.5	89.5	89.5	85.5	86.5
5	\$54	89.5	89.5	89.5	89.5	86.5	88.5
7.5	\$81	90.2	91.0	91.0	91.7	88.5	89.5
10	\$90	91.7	91.0	91.7	91.7	89.5	90.2
15	\$104	91.7	91.7	93.0	92.4	90.2	91.0
20	\$113	92.4	91.7	93.0	93.0	91.0	91.0
25	\$117	93.0	93.0	93.6	93.6	91.7	91.7
30	\$135	93.6	93.0	94.1	93.6	91.7	91.7
40	\$162	94.1	94.1	94.1	94.1	92.4	92.4
50	\$198	94.1	94.1	94.5	94.5	93.0	93.0
60	\$234	94.5	94.5	95.0	95.0	93.6	93.6
75	\$270	94.5	94.5	95.0	95.4	93.6	93.6
100	\$360	95.0	95.0	95.4	95.4	93.6	94.1
125	\$540	95.0	95.0	95.4	95.4	94.1	95.0
150	\$630	95.4	95.8	95.8	95.8	94.1	95.0
200	\$630	95.4	95.8	95.8	96.2	95.0	95.4
250	\$687	95.4	95.8	95.8	96.2	95.0	95.8
300	\$770	95.4	95.8	95.8	96.2	95.4	95.8
350	\$960	95.4	95.8	95.8	96.2	95.4	95.8
400	\$1,049	95.8	95.8	95.8	96.2	95.8	95.8
450	\$1,139	96.2	95.8	96.2	96.2	95.8	95.8
500	\$1,229	96.2	95.8	96.2	96.2	95.8	95.8

Notes for Premium Efficiency Motor incentive table:

1. ~~Motors larger than 500 horsepower may be eligible for a custom Energy Efficiency Incentive.~~
2. ~~The National Electrical Manufacturers Association (NEMA) Premium efficiency ratings listed are nominal full-load efficiency ratings. Motors that meet or exceed these efficiency requirements may qualify for an incentive.~~
3. ~~Incentives are available via a post-purchase incentive application process.~~
4. ~~Motors that are installed or placed in inventory may qualify for an incentive.~~
5. ~~Incentives are available for qualifying motors purchased prior to December 19, 2010. Incentives are not available for Premium Efficiency Motors purchased on or after December 19, 2010.~~

Other Motor Incentives Table

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement	Customer Incentive
Electronically Commutated Motor	≤ 1 horsepower	Refrigeration application	--	\$0.50/watt
		HVAC application	--	\$50/horsepower
Variable-Frequency Drives (HVAC fans and pumps)	≤ 100 horsepower	HVAC fans and pumps	See Note 32	\$65/horsepower
Green Motor Rewinds	≥ 15 and ≤ 5,000 hp	--	Must meet GMPG Standards	\$1/horsepower (See Note 3)

Notes for other motor incentives table:

1. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for ~~an~~ the listed incentive.
- ~~2. Incentives for all equipment listed in the incentive table are available via a post-purchase application process.~~
- ~~32. Electronically Commutated Motors installed in New Construction/Major Renovations and purchased prior to the effective date of the 2009 Washington State Energy Code may be eligible for an incentive. Electronically Commutated Motors installed in New Construction/Major Renovations and purchased on or after the effective date of the 2009 Washington State Energy Code will not be eligible for an incentive.~~
42. Throttling or bypass devices, such as inlet vanes, bypass dampers, three-way valves, or throttling valves must be removed or permanently disabled to qualify for HVAC fan or pump VFD incentives. VFDs required by or used to comply with the applicable version of the energy code are not eligible for incentives. Savings will only be realized for installations where a variable load is present.
- ~~53. --Green Motor Rewind motors that are installed or placed in inventory may qualify for an incentive. Green Motor Rewinds > 5,000 horsepower may be eligible for a custom Energy Efficiency Incentive.~~
6. For Green Motor Rewinds, the participating electric motor service center is paid \$2/horsepower for eligible Green Motor Rewinds. A minimum of \$1/horsepower is paid by the service center to the customer as a credit on the motor rewind invoice. The balance is retained by the service center.
- ~~7. For retrofits of existing equipment, incentives are for one for one same size equipment replacements.~~
- ~~54. Incentives are not available for National Electrical Manufacturers Association (NEMA) Premium Efficiency Motors purchased on or after December 19, 2010.~~
5. The following applies to Electronically Commutated Motors (ECMs) less than or equal to 1 horsepower installed in HVAC or refrigeration applications:
 - a. For New Construction/Major Renovations - ECMs purchased on or after the effective date of the 2009 Washington State Energy Code will not be eligible for an incentive.
 - b. For Retrofits, ECMs purchased on or after the effective date of these program changes will not be eligible for incentives.

ECM = Electronically Commutated Motor
 VFD = Variable Frequency Drive
 GMPG = Green Motors Practices Group
 HVAC = Heating, Ventilating and Air Conditioning
 NEMA = National Electrical Manufacturer's Association
 VFD = Variable Frequency Drive

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HVAC Equipment Incentive Table

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement & Customer Incentive		
			\$25/ton	\$50/ton	\$75/ton
Unitary Commercial Air Conditioners, Air-Cooled (Cooling Mode)	< 65,000 Btu/hr (single phase)	Split system and single package	==	CEE Tier 1	CEE Tier 2
	< 65,000 Btu/hr (three phase)	Split system and single package	==		
	≥ 65,000 Btu/hr (three phase)	Split system and single package	==		
Unitary Commercial Air Conditioners, Water and Evaporatively Cooled	All equipment sizes	Split system and single package	==	CEE Tier 1	==
Package Terminal Air Conditioners (PTAC) (Heating & Cooling Mode)	≤ 8,000 Btu/hr	Single package	12.2 EER	==	==
	> 8,000 Btu/hr and < 10,500 Btu/hr	Single package	11.9 EER	==	==
	≥ 10,500 Btu/hr and ≤ 13,500 Btu/hr	Single package	10.7 EER	==	==
	≥ 13,500 Btu/hr	Single package	9.9 EER	==	==
Package Terminal Heat Pumps (PTHP) (Heating & Cooling Mode)	≤ 8,000 Btu/hr	Single package	==	12.2 EER and 3.4 COP	==
	> 8,000 Btu/hr and < 10,500 Btu/hr	Single package	==	11.5 EER and 3.3 COP	==
	≥ 10,500 Btu/hr and < 13,500 Btu/hr	Single package	==	10.7 EER and 3.1 COP	==
	≥ 13,500 Btu/hr	Single package	==	9.8 EER and 3.0 COP	==
Heat Pumps, Air-Cooled (Cooling Mode)	< 65,000 Btu/hr (single phase)	Split system and single package	==	CEE Tier 1	CEE Tier 2
	< 65,000 Btu/hr (three phase)	Split system and single package	==		CEE Tier 2
	≥ 65,000 Btu/hr (three phase)	Split system and single package	==		==
Heat Pumps, Air-Cooled (Heating Mode) - See Note 2	< 65,000 Btu/hr (single phase)	Split system and single package	==	CEE Tier 1	CEE Tier 2
	< 65,000 Btu/hr (three phase)	Split system and single package	==		CEE Tier 2
	≥ 65,000 Btu/hr (three phase)	47°F db/43°F wb outdoor air	==		==
	≥ 65,000 Btu/hr (three phase)	17°F db/15°F wb outdoor air	==		==
Heat Pumps, Water-Source (Cooling Mode)	< 135,000 Btu/hr	86°F Entering Water	==	CEE Tier 1	==
Heat Pumps, Water-Source (Heating Mode) - See Note 2	< 135,000 Btu/hr	68°F Entering Water	==	CEE Tier 1	==

<u>Heat Pumps, Ground-Source or Groundwater-Source (Heating & Cooling Mode) - See Note 2</u>	<u>All sizes</u>	<u>77°F Entering Water</u>	<u>=</u>	<u>ENERGY STAR Qualified</u>	<u>=</u>
<u>Ground Source or Groundwater-Source Heat Pump Loop</u>	<u>All sizes</u>	<u>Open Loop</u>	<u>\$25/ton</u>	<u>=</u>	<u>=</u>
		<u>Closed Loop</u>			

Notes for HVAC Equipment incentive table

1. Equipment that meets or exceeds the efficiency requirements listed for the size category in the above table may qualify for the listed incentive. Equipment must meet all listed efficiency requirements to qualify for the listed incentives.
2. Incentives for heat pumps are available per ton of cooling capacity ONLY. No incentives are paid per ton of heating capacity. Heat Pumps must meet both the cooling mode and heating mode efficiency requirements to qualify for per ton cooling efficiency incentives.
3. Equipment size categories are specified in terms of net cooling capacity at AHRI standard conditions as determined by AHRI Standard 210/240 for units <65,000 Btu/hr, AHRI Standard 340/360 for units ≥65,000 Btu/hr, and AHRI Standard 310/380 for PTAC and PTHP units.
4. Ground and Water Source Heat Pumps must meet or exceed listed efficiency requirements when rated in accordance with ISO-13256-1 to qualify for the listed incentive.
5. Units rated only with an IPLV may qualify for the listed incentives if the value meets or exceeds the minimum IPLV established as part of the Consortium for Energy Efficiency Commercial Unitary Air Conditioning and Heat Pump specification effective January 16, 2009.
6. Efficiency requirements align with the Consortium for Energy Efficiency (CEE) Unitary Air-Conditioning and Heat Pump Specification for equipment with heating sections other than electric resistance. CEE minimum efficiency requirements are listed on Pacific Power's website.

AHRI = Air-Conditioning, Heating and Refrigeration Institute
CEE = Consortium for Energy Efficiency
COP = Coefficient of Performance
EER = Energy Efficiency Ratio
HSPF = Heating Seasonal Performance Factor
HVAC = Heating, Ventilation and Air-Conditioning
IEER = Integrated Energy Efficiency Ratio
IPLV = Integrated Part Load Value
PTAC = Packaged Terminal Air Conditioner
PTHP = Packaged Terminal Heat Pump
SEER = Seasonal Energy Efficiency Ratio

HVAC Equipment Incentive Table			Minimum Efficiency Requirement & Customer Incentive		
Equipment Type	Size Category	Sub-Category	\$50/ton	\$75/ton	\$100/ton
Unitary Commercial Air Conditioners, Air Cooled (Cooling Mode)	< 65,000 Btu/hr	Split system and single package (single phase)	15.0 SEER and 12.5 EER	—	—
	< 65,000 Btu/hr	Split system and single package (three-phase)		14.0 SEER and 11.6 EER	15.0 SEER and 12.0 EER
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	Split system and single package		11.5 EER and either 11.9 IPLV or 11.7 IEER	12.0 EER and either 12.4 IPLV or 12.2 IEER
	≥ 135,000 Btu/hr and < 240,000 Btu/hr	Split system and single package		11.5 EER and either 11.9 IPLV or 11.7 IEER	12.0 EER and either 12.4 IPLV or 12.2 IEER
	≥ 240,000 Btu/hr and < 760,000 Btu/hr	Split system and single package		10.5 EER and either 10.9 IPLV or 10.7 IEER	10.8 EER and either 12.0 IPLV or 11.0 IEER
	≥ 760,000 Btu/hr	Split system and single package		9.7 EER and either 11.0 IPLV or 9.9 IEER	10.2 EER and either 11.0 IPLV or 10.4 IEER
Unitary Commercial Air Conditioners, Water and Evaporatively Cooled	< 135,000 Btu/hr	Split system and single package	14.0 EER	—	—
	≥ 135,000 Btu/hr	Split system and single package	14.0 EER	—	—
Package Terminal Air Conditioners and Heat Pumps (PTAC/PTHP) (Heating & Cooling Mode)	≤ 8,000 Btu/hr	Single package	11.8 EER and 3.3 COP Heating	—	—
	> 8,000 Btu/hr and < 10,500 Btu/hr	Single package	11.4 EER and 3.2 COP Heating	—	—
	≥ 10,500 Btu/hr and ≤ 13,500 Btu/hr	Single package	10.7 EER and 3.1 COP Heating	—	—
	> 13,500 Btu/hr	Single package	10.0 EER and 3.0 COP Heating	—	—
Heat Pumps, Air-Cooled (Cooling Mode)	< 65,000 Btu/hr	Split system and single package (single phase)	15.0 SEER and 12.5 EER	—	—
	< 65,000 Btu/hr	Split system and single package (three-phase)		14.0 SEER and 11.6 EER	15.0 SEER and 12.0 EER
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	Split system and single package		11.5 EER and either 11.9 IPLV or 11.7 IEER	12.0 EER and either 12.4 IPLV or 12.2 IEER
	≥ 135,000 Btu/hr and < 240,000 Btu/hr	Split system and single package		11.5 EER and either 11.9 IPLV or 11.7 IEER	12.0 EER and either 12.4 IPLV or 12.2 IEER
	≥ 240,000 Btu/hr	Split system and single package		10.5 EER and either 10.9 IPLV or 10.7 IEER	10.8 EER and either 12.0 IPLV or 11.0 IEER

HVAC Equipment Incentive Table			Minimum Efficiency Requirement & Customer Incentive		
Equipment Type	Size Category	Sub-Category	\$50/ton	\$75/ton	\$100/ton
Heat Pumps, Air-Cooled (Heating Mode) – See Note 3	< 65,000 Btu/hr	Split system (single phase)	8.5 HSPF	–	–
		Single package (single phase)	8.0 HSPF	–	–
	< 65,000 Btu/hr	Split system (three phase)		8.5 HSPF	9.0 HSPF
		Single package (three phase)		8.0 HSPF	8.5 HSPF
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	47°F db/43°F wb outdoor air		3.4 COP	3.4 COP
		17°F db/15°F wb outdoor air		2.4 COP	2.4 COP
	≥ 135,000 Btu/hr	47°F db/43°F wb outdoor air		3.2 COP	3.2 COP
		17°F db/15°F wb outdoor air		2.1 COP	2.1 COP

HVAC Equipment Incentive Table (cont.)			Minimum Efficiency Requirement & Customer Incentive		
Equipment Type	Size Category	Sub-Category	\$50/ton	\$75/ton	\$100/ton
Heat Pumps, Water Source (Cooling Mode)	< 135,000 Btu/hr	86°F Entering Water	14.0 EER	—	—
Heat Pumps, Water Source (Heating Mode) – See Note 3	< 135,000 Btu/hr	68°F Entering Water	4.6 COP	—	—
Heat Pumps, Ground Source (Cooling Mode)	< 135,000 Btu/hr	77°F Entering Water	14.1 EER	—	—
Heat Pumps, Ground Source (Heating Mode) – See Note 3	< 135,000 Btu/hr	32°F Entering Water	3.3 COP	—	—
Heat Pumps, Groundwater Source (Cooling Mode)	< 135,000 Btu/hr	59°F Entering Water	16.2 EER	—	—
Heat Pumps, Groundwater Source (Heating Mode) – See Note 3	< 135,000 Btu/hr	50°F Entering Water	3.6 COP	—	—
Equipment Type	Size Category	Sub-Category	Incentive		
Ground Source or Groundwater Source Heat Pump Loop	All sizes	Open Loop	\$25/ton		
		Closed Loop			

Notes for HVAC equipment incentive table

1. For retrofits of existing equipment, incentives are for one-for-one same-size equipment replacements. Exception: PTHPs can replace electric resistive heating, which must be removed.
2. Equipment that meets or exceeds the efficiency requirements listed for the size category in the above table may qualify for an incentive. Equipment must meet both listed efficiency requirements to qualify for incentives.
3. Incentives for heat pumps are \$50-100 per ton of cooling capacity ONLY. No incentives are paid per ton of heating capacity. Heat Pumps must meet both the cooling mode and heating mode efficiency requirements to qualify for per ton cooling efficiency incentives.
4. Incentives for all equipment listed in the incentive table are available via a post-purchase application process.
5. Except where noted, all equipment listed in the table will be eligible for incentives in both new construction and retrofit projects.
6. Equipment size categories and capacities are specified in terms of net cooling capacity at AHRI standard conditions as determined by AHRI Standard 210/240 for units <65,000 Btu/hr, AHRI Standard 340/360 for units ≥65,000 Btu/hr, and AHRI Standard 310/380 for PTAC and PTHP units.
7. Ground and Water Source Heat Pumps must meet or exceed listed efficiency requirements when rated in accordance with ISO 13256-1 to qualify for an incentive.

AHRI = Air conditioning, Heating, and Refrigeration Institute
SEER = Seasonal Energy Efficiency Ratio

EER = Energy Efficiency Ratio
COP = Coefficient of Performance
HSPF = Heating Seasonal Performance Factor
IPLV = Integrated Part Load Value
PTHP = Package Terminal Heat Pump
PTAC = Package Terminal Air Conditioner
HVAC = Heating, Ventilating and Air Conditioning
IEER = Integrated Energy Efficiency Ratio

Other HVAC Equipment and Controls Incentives

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement	Customer Incentive
Evaporative Cooling	All sizes	Direct or Indirect	Industry Standard Rating (ISR)	\$0. 20 ²⁶ /ISR CFM
Indirect-Direct Evaporative Cooling (IDEC)	All sizes	--	Applicable system components must exceed minimum efficiencies required by energy code	(See Note 4 ²)
Chillers	All except chillers intended for backup service only	Serving primarily occupant comfort cooling loads (no more than 20% of process cooling loads)	Must exceed minimum efficiencies required by energy code	(See Note 5 ³)
<u>Room Air Conditioner</u>	<u>Residential (used in a business)</u>		<u>See Home Energy Savings program</u>	<u>See Note 5</u>
365/366 day Programmable Thermostat	All sizes in portable classrooms with mechanical cooling	Must be installed in portable classroom unoccupied during summer months	365/366 day thermostatic setback capability	\$150/thermostat
Occupancy Based PTHP/PTAC control (<u>Retrofit only</u>)	All sizes with no prior occupancy based control	--	See Note 6 ⁴	\$50/controller

Notes for other HVAC equipment and controls incentive table

~~1. For retrofits of existing equipment, incentives are for one-for-one same size equipment replacements.~~

~~2~~¹. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for ~~an~~^{the} listed incentive.

~~3. Incentives for all equipment listed in the incentive table are available via a post-purchase application process.~~

~~4~~². Incentives are paid at \$0.12/kWh annual energy savings + \$50/kW average monthly demand savings. IDEC energy and demand savings subject to approval by Pacific Power.

~~5~~³. Incentives are paid at \$0.12/kWh annual energy savings + \$50/kW average monthly demand savings. Chiller energy and demand savings subject to approval by Pacific Power.

~~6~~⁴. Controller units must include an occupancy sensor and include the capability to set back the zone temperature during extended unoccupied periods and set up the temperature once the zone is occupied.

~~5. Refer to Pacific Power's Home Energy Savings Program for efficiency requirements and incentives for listed residential appliances used in a business.~~

CFM = Cubic Feet per Minute

ISR = Industry Standard Rating

IDEC = Indirect Direct Evaporative Cooling

PTHP = Package Terminal Heat Pump

PTAC = Package Terminal Air Conditioner

Building Envelope (Retrofit) Incentives

Equipment Type	Category	Minimum Efficiency Requirement	Customer Incentive
Cool Roof	--	ENERGY STAR Qualified	\$0.10/square foot
Roof/Attic Insulation	--	Minimum increment of R-10 insulation	\$0.08/square foot
Wall Insulation	--	Minimum increment of R-10 insulation	\$0.10/square foot
Windows (See Note 3, 4)	Site-Built	U-Factor \leq 0.30 and SHGC \leq 0.33 (Glazing Only Rating)	\$0.34/square foot
	Assembly	U-Factor \leq 0.35 <u>0.30</u> and SHGC \leq 0.33 (Entire Window Assembly Rating)	\$0.34/square foot
Window Film	Existing Windows	See Note 65	See Note 65

Notes for retrofit building envelope incentive table

1. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for ~~an~~ the listed incentive.
2. ~~Incentives for all equipment listed in the incentive table are available via a post-purchase application process for retrofit projects only.~~
- 3.2. Building must be conditioned with mechanical cooling to be eligible for envelope incentives.
- 4.3. Energy performance of window assemblies and glazing products must be rated in accordance with NFRC. Site-Built metal window systems must include a thermal break within the frame or other appropriate NFRC certification to qualify for incentives. Skylights are not eligible to receive incentives.
- 5.4. Window square footage is determined by the dimensions of the entire window assembly, not just the window glass.
- 6.5. Incentives for window film are calculated based on film specifications and window orientation at \$0.12/kWh annual energy savings. Energy savings subject to approval by Pacific Power.

NFRC = National Fenestration Rating Council

SHGC = Solar Heat Gain Coefficient

Building Envelope (New Construction/Major Renovation) Incentives

Equipment Type	Category	Minimum Efficiency Requirement	Customer Incentive
Cool Roof	--	ENERGY STAR Qualified	\$0.10/square foot
Roof/Attic Insulation	--	Minimum increment of R-5 insulation above code (See Note 65)	\$0.04/square foot
Wall Insulation	--	Minimum increment of R-3.7 continuous insulation above code (See Note 65)	\$0.05/square foot
Windows (See Note 53, 4)	Site-Built	U-Factor \leq 0.30 and SHGC \leq 0.33 (Glazing Only Rating)	\$0.34/square foot
	Assembly	U-Factor \leq 0.35 0.30 and SHGC \leq 0.33 (Entire Window Assembly Rating)	\$0.34/square foot

Notes for building envelope (new construction/major renovation) incentives table

1. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for ~~an~~ the listed incentive.
- ~~2. Incentives for all equipment listed in the incentive table are available via a post-purchase application process for new construction projects only.~~
- ~~3.2.~~ Building must be conditioned with mechanical cooling to be eligible for envelope incentives.
- ~~4.3.~~ Window square footage is determined by the dimensions of the entire window assembly, not just the window glass.
- ~~5.4.~~ Energy performance of window assemblies and glazing products must be rated in accordance with NFRC. ~~Energy performance of window assemblies and glazing products must be rated in accordance with NFRC.~~ Site-Built metal window systems must include a thermal break within the frame or other appropriate NFRC certification to qualify for incentives. Skylights are not eligible to receive incentives.
- ~~6.5.~~ Compliance with the minimum efficiency requirements of Roof/Attic Insulation and Wall Insulation measures may be demonstrated with equivalent U-factors and is subject to Pacific Power approval.

NFRC = National Fenestration Rating Council
 SHGC = Solar Heat Gain Coefficient

Food Service Equipment Incentives

Equipment Type	Equipment Category	Minimum Efficiency Requirement	Customer Incentive
Residential Dishwasher (Electric Water Heating Only) (See Note 3)	Used in a Commercial Facility/business	ENERGY STAR Qualified See Home Energy Savings program	\$20 See Note 2
Commercial Dishwasher (Electric Water Heating Only) (See Note 3)	Undercounter	ENERGY STAR Qualified	\$500
	Stationary Rack, Single Tank, Door Type	ENERGY STAR Qualified	\$1,000
	Single Tank Conveyor	ENERGY STAR Qualified	\$1,500
	Multiple Tank Conveyor	ENERGY STAR Qualified	\$2,000
Electric Insulated Holding Cabinet	Full Size – Tier 1	ENERGY STAR Qualified	\$300
	3/4 Size – Tier 1		\$250
	1/2 Size – Tier 1		\$200
	Full Size – Tier 2	Watts/cubic feet ≤ 20 W (See Note 4)	\$600
	3/4 Size – Tier 2		\$500
	1/2 Size – Tier 2		\$400
Electric Steam Cooker	3-, 4-, 5- and 6-pan sizes – Tier 1	ENERGY STAR Qualified	\$750
	3-, 4-, 5- and 6-pan sizes – Tier 2	Heavy Load Efficiency ≥ 65%, Idle Energy Rate ≤ 0.23 kW (See Note 4)	\$840
Electric Convection Oven	--	≥70% cooking efficiency (tested in accordance with ASTM F1496 See Note 4)	\$350
Electric Griddle	–Tier 1	≥70% cooking efficiency (tested in accordance with ASTM F1275) ENERGY STAR Tier 1 Qualified	\$300-250
	Tier 2	ENERGY STAR Tier 2 Qualified	\$350
Electric Combination Oven	--	Heavy Load Efficiency ≥60% 70%, cooking efficiency, Idle Energy Rate ≤ 3.5 kW (tested in accordance with ASTM F1639 See Note 4)	\$1,000
Electric Commercial Fryer	–Tier 1	ENERGY STAR Qualified	\$200
	Tier 2	Cooking Efficiency ≥ 86.6%, Idle Energy Rate ≤ 772 Watts (See Note 4)	\$300
Ice Machines (Air-Cooled Only)	All types Tier 1: Harvest Rate ≤ 500 lbs/day	ENERGY STAR Qualified	\$125
	Tier 1: Harvest Rate ≥ 500 lbs/day	CEE Tier 3 Qualified ENERGY STAR Qualified	\$150
	Tier 2: Harvest Rate < 500 lbs/day All types, > 500 lbs/day	ENERGY STAR Qualified CEE Tier 3 Qualified	\$250
	Tier 2: Harvest Rate ≥ 500 lbs/day	CEE Tier 3 Qualified	\$400
Residential Refrigerator	Used in a Commercial Facility/business	ENERGY STAR Qualified See Home Energy Savings program	\$20 See Note 2
Vertical Commercial Glass	0 < V < 15	ENERGY STAR @ Qualified	\$100

Door Refrigerator	$15 \leq V < 30$		\$125
	$30 \leq V < 50$		\$150
	$50 \leq V$		\$175
	<u>Chest Configuration</u>		<u>\$75</u>
<u>Commercial Glass Door Freezer</u>	<u>$0 < V < 15$</u>	<u>ENERGY STAR Qualified</u>	<u>\$300</u>
	<u>$15 \leq V < 30$</u>		<u>\$325</u>
	<u>$30 < V < 50$</u>		<u>\$375</u>
	<u>$50 \leq V$</u>		<u>\$800</u>
	<u>Chest Configuration</u>		<u>\$100</u>
<u>Vertical Commercial Solid Door Refrigerator</u>	$0 < V < 15$	ENERGY STAR [®] Qualified	\$100 <u>50</u>
	$15 \leq V < 30$		\$125 <u>75</u>
	$30 \leq V < 50$		\$150 <u>100</u>
	$50 \leq V$		\$175 <u>125</u>
	<u>Chest Configuration</u>		<u>\$75</u>
<u>Vertical Commercial Solid Door Freezer</u>	$0 < V < 15$	ENERGY STAR [®] Qualified	\$125 <u>150</u>
	$15 \leq V < 30$		\$150 <u>175</u>
	$30 \leq V < 50$		\$175 <u>200</u>
	$50 \leq V$		\$200 <u>300</u>
	<u>Chest Configuration</u>		<u>\$150</u>
<u>High-Efficiency Refrigerated Beverage Vending Machine (See Note 5)</u>	<u>Class A</u>	<u>$MDEC = 0.055 \times V + 2.56$</u>	\$150
	<u>Class B</u>	<u>$MDEC = 0.073 \times V + 3.16$</u>	
<u>LED Case Lighting (Retrofit Only)</u>		<u>LED replacing fluorescent lamp in refrigerated cases.</u>	<u>\$10/linear foot</u>
<u>Refrigerated Case Occupancy Sensor (Retrofit Only)</u>		<u>Installed in existing refrigerated case with LED lighting</u>	<u>\$1/linear foot</u>

Comment [A1]: Moved from the Lighting Retrofit incentive table

Notes for food service equipment incentives table

1. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for ~~an~~ the listed incentive.
2. ~~Incentives for all equipment listed in the incentive table are available via a post-purchase application process.~~
2. Refer to Pacific Power's Home Energy Savings Program for efficiency requirements and incentives for listed residential appliances used in a business.
3. Commercial Dishwashers must be supplied with electrically heated domestic hot water. Models with either electric or gas booster heaters are eligible for incentives.
4. To meet the Minimum Efficiency Requirement(s) listed, values must be based on testing in accordance with the applicable ASTM Standard Test Method.
5. Qualifying Beverage Vending Machines must be purchased prior to August 31, 2012. Beverage Vending Machines purchased after August 31, 2012 will not be eligible for incentives.

CEE = Consortium for Energy Efficiency

ASTM = American Society for Testing and Materials

MDEC = Maximum Daily Energy Consumption

V = Association of Home Appliance Manufacturers (AHAM) Volume in cubic feet

Appliances Incentive Table

Equipment Type	Equipment Category	Minimum Efficiency Requirement	Customer Incentive
Ceiling Fans	Residential (used in a business)	See Home Energy Savings program	
High-Efficiency Clothes Washer (must have electric water heating)	Residential (used in a business)	See Home Energy Savings program	
	Commercial (must have electric water heating) (Coin-operated/Laundromat)	ENERGY STAR® Qualified	\$150
		CEE Tier 23 Qualified	\$200
Room Air Conditioners	Residential (used in a business)	See Home Energy Savings program	
Electric Water Heater	Residential (40 gallon or larger used in a business)	See Home Energy Savings program	

Comment [A2]: Moved to the Other HVAC incentive table

Notes for appliances incentive table

1. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for ~~an the listed~~ incentive.
2. Equipment must meet the efficiency rating standard that is in effect on the date of purchase.
3. Refer to Pacific Power's Home Energy Savings program for efficiency requirements and incentives for listed residential appliances used in a business.
2. ~~Incentives for all equipment listed in the incentive table are available via a post-purchase application process.~~

~~EF = Energy Factor~~

~~MEF = Modified Energy Factor~~

~~WF = Water Factor~~

CEE = Consortium for Energy Efficiency

Irrigation Incentive Table (Retrofit Only)

<u>Irrigation Measure</u>	<u>Replace</u>	<u>With</u>	<u>Limitations</u>	<u>Customer Incentive</u>
<u>Sprinkler Pressure Regulators</u>	<u>Worn or faulty regulator</u>	<u>New pressure regulator</u>	<u>Must be same design pressure or less</u>	<u>\$2.75 each</u>
<u>Rotating, Spray-Type or Low-Pressure Sprinklers</u>	<u>Worn rotating, spray-type, low-pressure, or impact sprinklers</u>	<u>New rotating, spray-type, or low-pressure sprinklers</u>	<u>Must be same design flow or less</u>	<u>\$3.00 each (up to 70% of cost)</u>
<u>New or Rebuilt Impact Sprinklers</u>	<u>Worn or leaking impact sprinkler</u>	<u>New or rebuilt impact sprinkler</u>	=	<u>\$3.00 each (up to 70% of cost)</u>
<u>Sprinkler Nozzles</u>	<u>Existing worn nozzles</u>	<u>New brass or plastic nozzles</u>	<u>Must be same design flow or less</u>	<u>\$0.25 each</u>
<u>Flow Controlling Type Nozzles</u>	<u>Existing worn flow-controlling type nozzles</u>	<u>New flow-controlling type nozzles</u>	<u>Must be same design flow or less</u>	<u>\$1.50 each</u>
<u>Drains and Gaskets for Wheel Lines, Hand Lines, Pivots, Linears or Portable Main Lines</u>	<u>Worn and leaking drains and gaskets</u>	<u>New drains and gaskets (Also includes seals and riser caps (dome discs) for valve openers)</u>	=	<u>\$1.00 each</u>
<u>Gooseneck Elbow with Drop Tube or Boomback</u>	<u>Worn or leaking gooseneck elbow with drop tube or boomback</u>	<u>New gooseneck elbow with drop tube or boomback</u>	=	<u>\$1.00/outlet</u>
<u>Repair Leaking Wheel Lines, Hand Lines or Portable Main Lines</u>	<u>Worn and leaking pipe connections or sections</u>	<u>Cut and pipe press or weld repair of leaking pipe connections or sections</u>	<u>Invoice must show number of joints or leaks repaired</u>	<u>\$8.00/joint</u>
<u>New or Rebuilt Wheel-line Levelers</u>	<u>Worn or faulty wheel-line leveler</u>	<u>New or rebuilt wheel-line leveler</u>	=	<u>\$0.75 each</u>
<u>Center Pivot Base Boot Gasket</u>	<u>Worn and leaking center pivot base boot gasket</u>	<u>New center pivot base boot gasket</u>	=	<u>\$80.00 each</u>
<u>Wheel-line Feed Hose</u>	<u>Worn or leaking wheel-line feed hose</u>	<u>New or rebuilt wheel-line feed hose</u>	=	<u>\$15.00 each</u>
<u>Wheel-line Hubs (for Thunderbird type wheel lines)</u>	<u>Worn or leaking hub</u>	<u>New wheel-line hub</u>	=	<u>\$12.00 each</u>
<u>Irrigation Pump VFD</u>	=	<u>Add VFD to existing irrigation pump motor</u>	=	<u>See Note 4</u>

Notes for irrigation incentive table

1. Irrigation measures that meet the replacement requirements listed in the above table may qualify for the listed incentive. Except for the Irrigation Pump VFD measure, fixed in place systems are not eligible for the incentives listed above.
2. All equipment listed in the table will be eligible for incentives only in replacement or retrofit projects.
3. For measures where the incentive is limited to 70% of energy efficiency measure costs, energy efficiency measure costs are subject to Pacific Power approval.
4. Incentives are paid at \$0.12/kWh annual energy savings. Irrigation Pump VFD annual energy savings subject to approval by Pacific Power.

VFD = Variable Frequency Drive

Irrigation Measure	Replace	With	Limitations	Customer Incentive
Repair Leaking Wheel Lines, Hand Lines and Portable Mainlines	Worn and leaking pipe connections	Cut and pipe press or weld repair of leaking pipe connections	1. Invoice must show number of joints repaired	\$8.00/joint
Rotating type, Spray Heads or Low-Pressure Pivot Sprinkler Heads	Worn rotating, impact, or spray type sprinklers	New rotating type, spray heads, or low-pressure pivot sprinkler heads	1. Must be same design flow or less 2. Limited to 2 replacements per irrigated acre	\$3.00 each (up to 60% of measure costs)
Center Pivot Base Boot Gasket	Worn and leaking center pivot base boot gasket	New center pivot base boot gasket	—	\$80 each
Drains and Gaskets for Wheel Lines, Hand Lines, Pivots or Portable Main Lines	Worn and leaking drains and gaskets	New drains and gaskets (See Note 4)	1. Limited to 2 replacements per irrigated acre	\$1.00 each
Flow Controlling Type Nozzles	Existing brass or worn flow controlling type nozzles	New flow controlling type nozzles	1. Must be same design flow or less 2. Limited to 2 replacements per irrigated acre	\$1.50 each
Sprinkler Nozzles	Existing worn nozzle	New brass or plastic range nozzle	1. Must be same design flow or less 2. Limited to 2 replacements per irrigated acre	\$0.25 each
Gooseneck Elbow with Drop Tube or Boomback	Worn or leaking gooseneck elbow with drop tube or boomback	New gooseneck elbow with drop tube or boomback	—	\$1.00/outlet
Wheel line Hubs (on Thunderbird Wheel Lines)	Worn or leaking hub	New wheel line hub	—	\$12.00 each
Sprinkler Pressure Regulators	Worn or faulty regulator	New Pressure regulator	1. Must be same design pressure or less 2. Limited to 2 replacements per irrigated acre	\$2.75 each
Brass Impact Sprinklers	Worn or leaking brass impact sprinkler	New or rebuilt brass impact sprinkler	1. Limited to 2 replacements per irrigated acre	\$3.00 each (up to 60% of measure costs)
Wheel line Leveler	Worn or faulty wheel line leveler	New or rebuilt wheel line leveler	—	\$0.75 each

Wheel-line Feed Hose	Worn or leaking wheel-line feed hose	New or rebuilt wheel-line feedhose	—	\$15.00 each
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Notes for irrigation incentive table

1. Irrigation measures that meet the replacement requirements listed in the above table may qualify for an incentive.
2. Incentives for all equipment listed in the incentive table are available via a post-purchase application process.
3. All equipment listed in the table will be eligible for incentives only in replacement or retrofit projects.
4. Also includes seals and riser caps (dome discs) for valve openers.
5. For Energy Efficiency Measures where the incentive is limited to 60% of Energy Efficiency Measure costs, Energy Efficiency Measure costs are subject to Pacific Power approval.

Dairy/Farm Equipment Incentives Table

Equipment Type	Equipment Category	Minimum Efficiency Requirements	Customer Incentive
Automatic Milker Takeoffs (Retrofit Only)	--	Equipment must be able to sense milk flow and remove milker when flow reaches a pre-set level. <u>The vacuum pump serving the affected milking units must be equipped with a VFD to slow the vacuum pump's speed when demand for vacuum is reduced. Incentive available for retrofit only. Replacement of existing automatic milker takeoffs are not eligible for incentives, except where Pacific Power permits as a Custom Energy Efficiency Incentive.</u>	\$235 each
Tractor Agricultural Engine Block Heater Timers	--	Timer must be a UL-listed device and rated for a minimum of 15 amps continuous duty.	\$10 each
Circulating Fans (See Note <u>32</u>)	12-23" Diameter	Fans must achieve an efficiency level of 11 cfm/W	\$25/fan
	24-35" Diameter	Fans must achieve an efficiency level of 18 cfm/W	\$35/fan
	36-47" Diameter	Fans must achieve an efficiency level of 18 cfm/W	\$50/fan
	≥48" Diameter	Fans must achieve an efficiency level of 25 cfm/W	\$75/fan
Heat Reclaimers	--	Heat reclaimer must use waste heat from <u>refrigeration</u> compressor to heat water. Customer must use electricity to heat water.	\$220/condenser kW
High-efficiency Ventilation Systems (See Note <u>32</u>)	12-23" Diameter	Fans must achieve an efficiency level of 11 cfm/W	\$45/fan
	24-35" Diameter	Fans must achieve an efficiency level of 13 cfm/W	\$75/fan
	36-47" Diameter	Fans must achieve an efficiency level of 17 cfm/W	\$125/fan
	≥48" Diameter	Fans must achieve an efficiency level of 19.5 cfm/W	\$150/fan
Milk Pre-coolers	--	The equipment must cool milk with well-water before it reaches the bulk cooling tank.	See Note <u>43</u>
Programmable Ventilation Controllers	--	The equipment must control ventilation fans based on temperature or environmental settings.	\$20/fan controlled
Variable Frequency Drives for Dairy Vacuum Pumps (Retrofit Only)	--	The equipment must vary the motor speed in accordance with the air flow needs of the vacuum system. Incentive available for retrofit only; <u>for systems without an existing VFD.</u>	\$165/hp

Notes for dairy/farm equipment incentives table

1. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for ~~an~~ the listed incentive.

~~2. Incentives for all equipment listed in the incentive table are available via a post-purchase application process.~~

~~3~~2. Fan performance must ~~be~~ be rated by an independent testing body in accordance with the appropriate ANSI/AMCA standards.

~~4~~3. Incentives are paid at \$0.12/kWh annual energy savings + \$50/kW average monthly demand savings. Milk Pre-Cooler energy and demand savings subject to approval by Pacific Power.

~~5~~4. Except where noted, all equipment listed in the table will be eligible for incentives in both new construction and retrofit projects.

AMCA = Air Movement & Control Association International, Inc.

ANSI = American National Standards Institute

VFD = Variable Frequency Drive

Compressed Air Incentive Table (Size ≤ 75 Horsepower)

Equipment Category	Replace	With	Limitations	Customer Incentive
Low-Pressure Drop Filters	Standard Coalescing Filter	Rated Low-Pressure Drop Filter where: 1. Pressure Loss at Rated Flow is ≤ 1psi when new and ≤ 3psi at element change 2. Particulate Filtration is 100% at ≥ 3.0 microns and 99.98% at 0.1 to 3.0 microns, <u>with</u> ≤ 5 ppm liquid carryover 3. Filter is of deep-bed "mist eliminator" style, with element life ≥ 5 years 4. Rated capacity of filter is ≤ 500 scfm or less	1. Compressor must be ≥ 25 HP <u>and</u> ≤ <u>75 HP</u>	\$0.80/scfm
Receiver Capacity Addition	Limited or no Receiver Capacity (≤ 2 gallons per scfm of <u>trim</u> compressor capacity)	Receiver -Total tank receiver capacity <u>after addition must be</u> > 2 gallons per scfm of <u>trim</u> compressor capacity	1. <u>Compressor system size < 75 horsepower</u> 2. Compressor -Trim compressor must use load/unload controls without inlet modulation or on/off control. 3. Systems with a VFD or using variable displacement control are not eligible.	\$1.50/gallon above 2 gallons per scfm
Refrigerated Cycling Dryers	Non-Cycling Refrigerated Dryer	Cycling Refrigerated Dryer	1. <u>Compressor system size < 75 horsepower</u> 2. Rated dryer capacity must be ≤ 500 scfm 3. Dryer must operate exclusively in cycling mode and cannot be equipped with the ability to select between cycling and non-cycling mode 4. Refrigeration compressor must cycle off during periods of reduced demand	\$1.50/scfm
VFD Controlled Compressor	Compressor 75 hp or Smaller	<u>≤ 75 hp single operating</u> VFD-Controlled Oil-Injected Screw Compressor	1. <u>Single operating compressor < 75 HP</u> 2. Compressor must adjust speed as primary means of capacity control 3. Compressor must not use inlet modulation when demand is below <u>the</u> minimum speed <u>air production threshold of the VFD compressor</u>	\$0.15/kWh <u>annual energy savings</u> See Note 43
Zero Loss Condensate Drains	Fixed Timer Drain	Zero Loss Condensate Drain (See Note 44)	Drain is designed to function without release of compressed air into the atmosphere. <u>(No maximum compressor size)</u>	\$90 each
Outside Air Intake	Compressor intake drawing air from compressor room	<u>≤ 75 hp compressor where</u> Permanent - <u>permanent</u> ductwork between compressor air intake and outdoors	1. <u>Compressor system size < 75 HP.</u> 2. Ductwork must meet manufacturer's specifications, which may include: (a) ≤ 0.25" W.C. pressure loss at rated flow, and (b) allow use of compressor room air during extremely cold conditions	\$6.00/hp

Notes for compressed air incentive table

1. Eligibility for ~~the above Energy Efficiency Incentives, except Zero Loss Condensate Drains, is limited to customers with compressed air system(s) containing compressors with a total system horsepower less than or equal to 75 hp in size. Incentives is limited to customers with compressed air system(s) containing a single operating compressor less than or equal to 75 hp in size. Multiple compressor systems and compressors larger than 75hp will not be eligible for incentives listed above.~~
2. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for ~~an~~ the listed incentive.
3. ~~Incentives for all equipment listed in the incentive table are available via a post-purchase application process.~~
4. Incentives for VFD-controlled compressors are calculated based on compressor size and other system parameters at \$0.15/kWh annual energy savings. Energy savings subject to approval by Pacific Power.
5. Zero Loss Condensate Drains purchased as requirements for other compressed air ~~measures~~ Energy Efficiency Measures are eligible for incentives.

HP = horsepower

PPM = parts per million

PSI = pounds per square inch

SCFM = Cubic Feet of air per Minute at standard conditions (14.5 psia, 68°F, and 0% relative humidity)

VFD = Variable Frequency Drive

Incentives for Other Energy Efficiency Measures

Equipment Type	Replace	Minimum Efficiency Requirements	Customer Incentive
Network PC Power Management Software	--	1. Installed software must automatically control the power settings of networked personal computers (PC) at the server level 2. The software must manage power consumption for each individual PC 3. The software must include the capability to report energy <u>savings results</u>	\$7 per controlled PC (up to 100% of measure costs)
Smart Plug Strip	--	1. Incentive applies to any plug strip that eliminates idle or stand-by power consumption of connected plug-load appliance through the use of an occupancy sensor, electric load sensor, or timer. 2. <u>Applies only to electric plug-load applications (e.g. computer monitors, desk lamps, etc.)</u>	\$15/qualifying unit
Beverage or refrigerated display machine occupancy sensor	No occupancy sensor control	See Note 4	\$75/sensor

Comment [A3]: Moved to Food Service incentive table

Notes for other energy efficiency measures incentives table

- Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for ~~an~~ the listed incentive.
- ~~Incentives for all equipment listed in the incentive table are available vligible.~~
- ~~52.~~ Energy Efficiency Measure Costs for Network PC Power Management Software are subject to Pacific Power approval.