

## Incentives for lighting (retrofits)

Category		Eligibility Requirements	Customer Incentive
Interior Lighting	Full fixture replacement	With upgrade to advanced controls	\$0.16/kWh
		With upgrade to basic controls	\$0.14/kWh
		Without controls upgrade	\$0.12/kWh
	Fixture retrofit kits	With controls upgrade to basic or advanced controls	\$0.12/kWh
		Without controls upgrade	\$0.10/kWh
	Lamp replacement	Lamp-only replacements	See mid-market incentive table
	Controls-only retrofit	Controls-only upgrade to advanced controls	\$0.16/kWh
Controls-only upgrade to basic controls		\$0.12/kWh	
Exterior Lighting	Full fixture replacement (except street lighting)	With upgrade to advanced dimming controls	\$0.10/kWh
		Without controls upgrade	\$0.06/kWh
	Fixture retrofit kits (except street lighting)	With upgrade to advanced dimming controls	\$0.07/kWh
		Without controls upgrade	\$0.05/kWh
	Lamp replacement (except street lighting)	Lamp-only replacements	See mid-market incentive table
	Street lighting	With upgrade to advanced dimming controls	\$0.07/kWh
		Without controls upgrade	\$0.05/kWh
Controls-only retrofit	Controls-only upgrade to advanced dimming controls	\$0.07/kWh	
Custom Lighting	Custom	Not listed above	\$0.05/kWh

### Notes for lighting retrofit incentives:

- 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. To be eligible for an incentive for a system with controls, the new controls must save energy relative to existing controls.
- 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. Energy efficiency project costs are subject to Pacific Power approval.
- Incentives listed as \$/kWh are paid per kWh annual energy savings as determined by Pacific Power.
- Eligible retrofit lighting equipment is defined in qualified equipment lists posted on the Washington energy efficiency program section at [pacificpower.net/wattsmart](http://pacificpower.net/wattsmart).
- A complete list of lighting equipment not eligible for retrofit incentives is available on the Washington energy efficiency program section at [pacificpower.net/wattsmart](http://pacificpower.net/wattsmart).

To be eligible for energy efficiency project incentives, the project simple payback before incentives must not exceed eight years. Pacific Power may accept a project with a projected payback period in excess of eight years, if project benefits satisfy the Washington Utilities and Transportation Commission's approved cost-effectiveness test as determined by Pacific Power.

## Incentives for non-general illuminance lighting (retrofit only)

Measure	Category	Eligibility Requirements	Customer Incentive
<b>Non-General Illuminance</b>	Exit sign	LED or photoluminescent replacing incandescent or fluorescent	\$15/sign
	LED message center sign	LED replacing existing incandescent signage	\$5/lamp
	LED channel letter sign	LED replacing existing neon or fluorescent signage	\$5/linear foot
	LED marquee/cabinet sign	LED replacing existing fluorescent signage	\$5/linear foot
	LED case lighting – refrigerated case	LED replacing fluorescent lamp in existing refrigerated cases. LED must be listed on qualified equipment list.	\$10/linear foot
	LED case lighting – freezer case		\$10/linear foot
	Refrigerated case occupancy sensor	Installed in existing refrigerated case with LED lighting	\$1/linear foot
	Custom	Not listed above	\$0.12/kWh annual energy savings

### Notes for retrofit non-general illuminance lighting incentives:

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. Energy efficiency project costs and energy savings are subject to approval by Pacific Power.
3. Qualified equipment lists referenced in the table are posted on the Washington energy efficiency program section at [pacificpower.net/wattsmart](http://pacificpower.net/wattsmart).

To be eligible for energy efficiency project incentives, the project simple payback before incentives must not exceed eight years. Pacific Power may accept a project with a projected payback period in excess of eight years, if project benefits satisfy the Washington Utilities and Transportation Commission's approved cost-effectiveness test as determined by Pacific Power.

LED = Light-Emitting Diode

## Incentives for lighting (new construction/major renovation)

Measure	Category	Eligibility Requirements	Customer Incentive
<b>Interior Lighting</b>	Lighting and lighting control	<p>1. The total connected interior lighting power for new construction/major renovation projects must be at least 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 at least 10% lower than common practice as determined by Pacific Power.</p> <p>2. Energy savings are subject to approval by Pacific Power.</p>	\$0.08/kWh annual energy savings
<b>Exterior Lighting</b>	Induction fixture	All wattages. New fixtures only.	\$25/fixture
	LED outdoor pole/roadway, decorative	< 75W; LED must be listed on qualified equipment list	\$25/fixture
	LED outdoor pole/roadway	≤ 200W; LED must be listed on qualified equipment list	\$50/fixture
		> 200W; LED must be listed on qualified equipment list	\$175/fixture
	LED canopy/soffit	LED must be listed on qualified equipment list	\$50/fixture
	LED wall packs	< 50W; LED must be listed on qualified equipment list	\$50/fixture
		≥ 50W; LED must be listed on qualified equipment list	\$50/fixture
	LED flood lights	< 100W; LED must be listed on qualified equipment list	\$50/fixture
		≥ 100W; LED must be listed on qualified equipment list	\$100/fixture
CFL wall packs	All wattages. Hardwired fixtures only.	\$10/fixture	
Custom	Not listed above	\$0.08/kWh annual energy savings	

### Notes for new construction/major lighting incentives:

- Project cost caps of 70 percent and one-year simple payback caps apply to new construction and major renovation projects that are not subject to state energy code. The one-year simple payback cap means incentives will not be available to reduce the simple payback of a project below one year. If required, individual measure incentives will be adjusted downward pro-rata so the project has a simple payback after incentives of one year. To be eligible for energy efficiency project incentives on new construction and major renovation projects that are not subject to state energy code, the project simple payback before incentives must not exceed eight years. Pacific Power may accept a project with a projected payback period in excess of eight years, if project benefits satisfy the Washington Utilities and Transportation Commission's approved cost-effectiveness test as determined by Pacific Power.
- Lighting controls required by or used to comply with the applicable version of the state energy code are not eligible for incentives.

## Incentives for motors

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement	Customer Incentive
<b>Variable Frequency Drives</b> (HVAC fans and pumps)	≤ 100 horsepower	HVAC fans and pumps	See note 2	\$65/horsepower
<b>Green Motor Rewinds</b>	≥ 15 and ≤ 5,000 hp	--	Must meet GMPG standards	\$1/horsepower (See note 3)

### Notes for motor incentives:

1. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for the listed incentive.
2. 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.
3. Green motor rewind motors that are installed or placed in inventory may qualify for an incentive. 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.

GMPG = Green Motors Practices Group

hp = Horsepower

HVAC = Heating, Ventilating and Air Conditioning

VFD = Variable Frequency Drive

## Incentives for HVAC equipment

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement & Customer Incentive		
			\$25/ton	\$50/ton	\$75/ton
<b>Unitary Commercial Air Conditioners, Air-Cooled</b>	< 65,000 Btu/hr (single phase)	Split system and single package	--	CEE Tier 2	--
	All equipment sizes (three phase)	Split system and single package	--	CEE Tier 2	--
<b>Unitary Commercial Air Conditioners, Water Cooled</b>	All equipment sizes	Split system and single package	CEE Tier 1	--	--
<b>Unitary Commercial Air Conditioners, Evaporatively Cooled</b>	All equipment sizes	Split system and single package	--	CEE Tier 1	--
<b>Packaged Terminal Air Conditioners (PTAC)</b>	≤ 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	--	--
<b>Packaged Terminal Heat Pumps (PTHP) (Heating &amp; Cooling mode)</b>	≤ 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	--
<b>Heat Pumps, Air-Cooled (Cooling mode)</b>	< 65,000 Btu/hr (single phase)	Split system and single package	--	CEE Tier 2	--
	< 65,000 Btu/hr (three phase)	Split system and single package	CEE Tier 1	CEE Tier 2	--
	≥ 65,000 Btu/hr (three phase)	Split system and single package		--	--
<b>Heat Pumps, Air-Cooled (Heating mode)</b>	< 65,000 Btu/hr (single phase)	Split system and single package (See note 3)	--	CEE Tier 2	--
	< 65,000 Btu/hr (three phase)	Split system and single package (See note 3)	CEE Tier 1	CEE Tier 2	--
	≥ 65,000 Btu/hr (three phase)	(See note 3)		--	--

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Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement & Customer Incentive		
			\$25/ton	\$50/ton	\$75/ton
<b>Heat Pumps, Water-Source</b> (Cooling mode)	< 135,000 Btu/hr	See note 3	--	CEE Tier I	--
<b>Heat Pumps, Water-Source</b> (Heating mode)	< 135,000 Btu/hr	See note 3	--	CEE Tier I	--
<b>VRF Air-Cooled Heat Pumps</b> (Cooling mode)	< 65,000 Btu/hr	Multisplit system or multisplit system with heat recovery	--	--	15 SEER and 12.5 EER
	≥ 65,000 Btu/hr and < 135,000 Btu/hr		--	--	11.5 EER and 16 IEER
	≥ 135,000 Btu/hr and < 240,000 Btu/hr		--	--	10.9 EER and 15.4 IEER
	> 240,000 Btu/hr		--	--	9.6 EER and 14.3 IEER
<b>VRF Air-Cooled Heat Pumps</b> (Heating mode) (See note 3)	< 65,000 Btu/hr	--	--	--	8.5 HSPF
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	47°Fdb/43° wb outdoor air	--	--	3.4 COP
		17°Fdb/15° wb outdoor air	--	--	2.4 COP
	>135,000 Btu/hr	47°Fdb/43° wb outdoor air	--	--	3.2 COP
17°Fdb/15° wb outdoor air		--	--	2.5 COP	
<b>VRF Water-Cooled Heat Pumps</b> (Cooling mode)	< 135,000 Btu/hr	Multisplit system or multisplit system with heat recovery	--	--	CEE Tier I
<b>VRF Water-Cooled Heat Pumps</b> (Heating mode) (See note 3)	< 135,000 Btu/hr	Multisplit system or multisplit system with heat recovery	--	--	CEE Tier I
<b>Heat Pumps, Ground-Source or Groundwater-Source</b> (Heating & Cooling mode)	All sizes	See note 3	--	ENERGY STAR <sup>®</sup> qualified	--
<b>Ground-Source or Groundwater-Source Heat Pump Loop</b>	All sizes	Open loop	\$25/ton	--	--
		Closed loop			

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## Notes for HVAC equipment incentives:

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. PTHPs can replace electric resistive heating, which must be removed.
3. 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.
4. 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, AHRI Standard 1230 for VRF systems and AHRI Standard 310/380 for PTAC and PTHP units.
5. 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.
6. 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.
7. 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 the Washington energy efficiency program section at [pacificpower.net/wattsmart](http://pacificpower.net/wattsmart).

AHRI = Air-Conditioning, Heating, and Refrigeration Institute  
COP = Coefficient of Performance  
HSPF = Heating Seasonal Performance Factor  
IEER = Integrated Energy Efficiency Ratio  
PTAC = Packaged Terminal Air Conditioner  
SEER = Seasonal Energy Efficiency Ratio

CEE = Consortium for Energy Efficiency  
EER = Energy Efficiency Ratio  
HVAC = Heating, Ventilating and Air-Conditioning  
IPLV = Integrated Part Load Value  
PTHP = Packaged Terminal Heat Pump  
VRF = Variable Refrigerant Flow

## Incentives for other HVAC equipment and controls

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement	Customer Incentive
<b>Evaporative Cooling</b>	All sizes	Direct or indirect	--	\$0.06/cfm
<b>Indirect-Direct Evaporative Cooling (IDEC)</b>	All sizes	--	Applicable system components must exceed minimum efficiencies required by energy code	\$0.15/kWh annual energy savings (See note 2)
<b>Chillers</b>	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	\$0.15/kWh annual energy savings (See note 3)
<b>365/366 Day Programmable or Occupancy-based Thermostat</b>	All sizes in portable classrooms with mechanical cooling	Must be installed in portable classroom unoccupied during summer months	365/366 day thermostatic or occupancy-based set back capability	\$150/thermostat
<b>Occupancy-based PTHP/PTAC Control (Retrofit only)</b>	All sizes with no prior occupancy-based control	--	See note 4	\$50/controller
<b>Evaporative Pre-cooler (Retrofit only)</b>	--	For single air-cooled packaged rooftop or matched split system condensers only	Minimum performance efficiency of 75%. Must have enthalpy controls to control pre-cooler operation. Water supply must have chemical or mechanical water treatment.	\$75/ton of attached cooling capacity (See note 5)
<b>Advanced Rooftop Unit Control</b>	≥ 5 tons and ≤ 10 tons	Must be installed on existing unitary packaged rooftop units (no split-systems), ≥ 5 tons nominal cooling capacity with constant speed supply fans.	Controls must include: - Either a supply fan VFD or multi-speed supply fan motor with controller that meets ventilation and space conditioning needs - Digital, integrated economizer control	\$2,000
	> 10 tons and ≤ 15 tons			\$2,800
	> 15 tons and ≤ 20 tons			\$4,000
	> 20 tons			\$4,500
<b>Smart Thermostat</b>	Residential (used in a business)		See Home Energy Savings program	

### Notes for HVAC equipment and controls incentives:

- Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for the listed incentive.
- Incentives are paid at \$0.15/kWh annual energy savings. IDEC energy savings subject to approval by Pacific Power.
- Incentives are paid at \$0.15/kWh annual energy savings. Chiller energy savings subject to approval by Pacific Power.
- Controller units must include an occupancy-based control and include the capability to set back the zone temperature during extended unoccupied periods and set up the temperature once the zone is occupied.
- Incentives for evaporative pre-coolers 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. Energy efficiency project costs are subject to Pacific Power approval. To be eligible for energy efficiency project incentives, the project simple payback before incentives must not exceed eight years. Pacific Power may accept a project with a projected payback period in excess of eight years, if project benefits satisfy the Washington Utilities and Transportation Commission's approved cost-effectiveness test as determined by Pacific Power.

cfm = cubic feet per minute

IDEC = Indirect-Direct Evaporative Cooling

PTAC = Packaged Terminal Air Conditioner

PTHP = Packaged Terminal Heat Pump



## Incentives for evaporative cooling

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement	Customer Incentive
<b>Evaporative Cooling</b>	All sizes	Direct or indirect	--	\$0.06/cfm
<b>Indirect-Direct Evaporative Cooling (IDEC)</b>	All sizes	--	Applicable system components must exceed minimum efficiencies required by energy code	\$0.15/kWh annual energy savings (See note 2)
<b>Evaporative Pre-cooler (Retrofit only)</b>	--	For single air-cooled packaged rooftop or matched split system condensers only	Minimum performance efficiency of 75%. Must have enthalpy controls to control pre-cooler operation. Water supply must have chemical or mechanical water treatment.	\$75/ton of attached cooling capacity (See note 3)

### Notes for evaporative cooling incentives:

1. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for the listed incentive.
2. Incentives are paid at \$0.15/kWh annual energy savings. IDEC energy savings subject to approval by Pacific Power.
3. Incentives for evaporative pre-coolers 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. Energy efficiency project costs are subject to Pacific Power approval. To be eligible for energy efficiency project incentives, the project simple payback before incentives must not exceed eight years. Pacific Power may accept a project with a projected payback period in excess of eight years, if project benefits satisfy the Washington Utilities and Transportation Commission's approved cost-effectiveness test as determined by Pacific Power.

cfm = cubic feet per minute

IDEC = Indirect-Direct Evaporative Cooling

PTAC = Packaged Terminal Air Conditioner

PTHP = Packaged Terminal Heat Pump

## Incentives for building envelope (retrofits)

Equipment Type	Category	Minimum Efficiency Requirement	Customer Incentive
<b>Cool Roof</b>	--	ENERGY STAR <sup>®</sup> qualified	\$0.05/square foot
<b>Roof/Attic Insulation</b>	--	Minimum increment of R-10 insulation	\$0.08/square foot
<b>Wall Insulation</b>	--	Minimum increment of R-10 insulation	\$0.10/square foot
<b>Windows</b> (See notes 3, 4)	Site-built	U-factor $\leq 0.30$ and SHGC $\leq 0.33$ (glazing only rating)	\$0.34/square foot
	Assembly	U-factor $\leq 0.30$ and SHGC $\leq 0.33$ (entire window assembly rating)	\$0.34/square foot
<b>Window Film</b>	Existing windows	See note 5	\$0.15/kWh annual energy savings (See note 5)

### Notes for building envelope retrofit incentives:

1. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for the listed incentive.
2. Building must be conditioned with mechanical cooling to be eligible for building envelope incentives.
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.
4. Window square footage is determined by the dimensions of the entire window assembly, not just the window glass.
5. Incentives for window film are calculated based on film specifications and window orientation at \$0.15/kWh annual energy savings. Energy savings subject to approval by Pacific Power.

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

## Incentives for building envelope (new construction/major renovation)

Equipment Type	Category	Minimum Efficiency Requirement	Customer Incentive
<b>Windows</b> (See notes 3, 4)	Site-built	U-factor $\leq 0.30$ and SHGC $\leq 0.33$ (glazing only rating)	\$0.34/square foot
	Assembly	U-factor $\leq 0.30$ and SHGC $\leq 0.33$ (entire window assembly rating)	\$0.34/square foot

### Notes for building envelope incentives for new construction/major renovation projects:

1. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for the listed incentive.
2. Building must be conditioned with mechanical cooling to be eligible for envelope incentives.
3. Window square footage is determined by the dimensions of the entire window assembly, not just the window glass.
4. 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.

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

## Incentives for food service equipment

Equipment Type	Equipment Category	Minimum Efficiency Requirement	Customer Incentive
<b>Commercial Dishwasher</b> (High temperature models with electric boosters only)	Under counter	ENERGY STAR <sup>®</sup> qualified	\$100
	Stationary rack, single tank, door type		\$400
	Single tank conveyor		\$1,000
	Multiple tank conveyor		\$500
<b>Electric Insulated Holding Cabinet</b>	Full Size	ENERGY STAR qualified	\$400
	¾ Size		\$300
	½ Size		\$200
<b>Electric Steam Cooker</b>	3-, 4-, 5- and 6-pan or larger sizes – Tier 1	ENERGY STAR qualified	\$130
	3-, 4-, 5- and 6-pan or larger sizes – Tier 2	ENERGY STAR qualified w/Heavy Load Efficiency ≥ 68%	\$300
<b>Electric Convection Oven</b>	--	ENERGY STAR qualified	\$350
<b>Electric Griddle</b>	--	ENERGY STAR Tier 2 qualified	\$150
<b>Electric Combination Oven</b>	6-15 pans	ENERGY STAR qualified	\$1,000
	16-20 pans		\$275
<b>Electric Commercial Fryer</b>	Tier 1	ENERGY STAR qualified	\$200
	Tier 2	ENERGY STAR qualified with Cooking Efficiency ≥ 85%, Idle Energy Rate ≤ 860 watts	\$300
	Tier 1: Harvest rate < 500 lbs/day	ENERGY STAR qualified	\$125
Tier 1: Harvest rate ≥ 500 lbs/day	\$150		
<b>Ice Machines</b> (Air-cooled only)	Tier 2: Harvest rate < 500 lbs/day	CEE Tier 2 qualified	\$250
	Tier 2: Harvest rate ≥ 500 lbs/day		\$400
<b>Demand Controlled Kitchen Ventilation Exhaust Hood</b> (Retrofit only)	Must be installed on commercial kitchen exhaust system	Variable speed motors must be controlled to vary fan speed depending upon kitchen demand, as indicated by connected sensors	\$0.15/kWh annual energy savings (See note 2)
<b>Anti-sweat Heater Controls</b> (Retrofit only)	Low-temp (freezing) cases	Technologies that reduce energy consumption of anti-sweat heaters based on sensing humidity	\$20/linear foot (case length)
	Med-temp (refrigerated) cases		\$16/linear foot (case length)

See Appliances and Lighting sections for additional incentives.

### Notes for food service equipment incentives:

1. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for the listed incentive.
2. Incentives are paid at \$0.15/kWh annual energy savings. Demand controlled kitchen ventilation exhaust hood energy savings subject to approval by Pacific Power.

CEE = Consortium for Energy Efficiency

## Incentives for appliances

Equipment Type	Equipment Category	Minimum Efficiency Requirement	Customer Incentive
<b>High-Efficiency Clothes Washer</b>	Residential (used in a business)	See Home Energy Savings program	
	Commercial (must have electric water heating)	ENERGY STAR <sup>®</sup> qualified	\$100
<b>Heat Pump Water Heater</b>	Residential (used in a business)	See Home Energy Savings program	
<b>Heat Pump Clothes Dryer</b>	Residential (used in a business)	See Home Energy Savings program	
<b>Hybrid Heat Pump Clothes Dryer</b>	Residential (used in a business)	See Home Energy Savings program	

See Food Service Equipment section for additional incentives.

### Notes for appliance incentives:

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

## Incentives for office equipment

Equipment Type	Replace	Minimum Efficiency Requirement	Customer Incentive
Smart Plug Strip	--	<ol style="list-style-type: none"><li>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.</li><li>2. Applies only to electric plug-load applications (e.g. computer monitors, desk lamps, etc.)</li></ol>	\$15/qualifying unit

### Notes for office equipment incentives:

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

## Incentives for wheel line, hand line or other portable systems (retrofit only)

Irrigation Measure	Replace	With	Limitations	Customer Incentive
<b>New rotating sprinkler replacing worn or leaking impact or rotating sprinkler</b>	Leaking or malfunctioning impact or rotating sprinkler	Rotating sprinkler	<ol style="list-style-type: none"> <li>1. Fixed-in-place (solid set) systems not eligible.</li> <li>2. Incentives limited to two sprinklers per irrigated acre.</li> </ol>	\$2.50 each
<b>New or rebuilt impact sprinkler replacing worn or leaking impact sprinkler</b>	Leaking or malfunctioning impact sprinkler	New or rebuilt impact sprinkler	<ol style="list-style-type: none"> <li>1. New nozzle shall be included in new or rebuilt sprinkler.</li> <li>2. Rebuilt sprinkler shall meet or exceed manufacturer's specifications.</li> <li>3. Fixed-in-place (solid set) systems not eligible.</li> <li>4. Incentive limited to two sprinklers per irrigated acre.</li> </ol>	\$2.25 each
<b>New nozzle replacing worn nozzle of same design flow or less on existing sprinkler</b>	Worn nozzle	New nozzle of same design flow or less	<ol style="list-style-type: none"> <li>1. Flow rate shall not be increased.</li> <li>2. All nozzles on the wheel line or hand line shall be replaced.</li> <li>3. Fixed-in-place (solid set) systems not eligible.</li> <li>4. Incentive limited to two nozzles per irrigated acre.</li> </ol>	\$0.50 each
<b>New flow-control nozzle for impact sprinkler replacing existing nozzle or worn flow-control nozzle of same design flow or less</b>	Worn flow-controlling type nozzle	New flow-control type nozzle	<ol style="list-style-type: none"> <li>1. Nozzle to be replaced may be fixed orifice or flow-control type.</li> <li>2. New flow-control nozzle shall have a flow rating equal to or less than the flow rating of the existing nozzle at 40 psi.</li> <li>3. All nozzles on the wheel line or hand line shall be replaced.</li> <li>4. Fixed-in-place (solid set) systems not eligible.</li> <li>5. Incentive limited to two nozzles per irrigated acre.</li> </ol>	\$2.75 each
<b>New gasket replacing leaking gasket, including main line valve or section gasket, seal or riser cap (dome disk)</b>	Leaking gasket	New gasket, including main line valve or section gasket, seal or riser cap (dome disk)	<ol style="list-style-type: none"> <li>1. New gasket must replace leaking gasket.</li> <li>2. Fixed-in-place (solid set) systems not eligible.</li> <li>3. Incentive limited to two gaskets per irrigated acre.</li> </ol>	\$2 each
<b>New drain replacing leaking drain</b>	Leaking drain	New drain, including drains on pivots and linears	<ol style="list-style-type: none"> <li>1. New drain must replace leaking drain.</li> <li>2. Fixed-in-place (solid set) systems not eligible.</li> <li>3. Incentive limited to two drains per irrigated acre.</li> </ol>	\$3 each
<b>Cut and press or weld repair of leaking wheel line, hand line or portable main line</b>	Leak in wheel line, hand line or portable main line	Cut and pipe press or weld repair	Invoice must show number of leaks repaired	\$10/repair
<b>New or rebuilt wheel line leveler replacing leaking or malfunctioning leveler</b>	Replace leaking or malfunctioning leveler	New or rebuilt leveler	<ol style="list-style-type: none"> <li>1. Applies to leaking or malfunctioning levelers only.</li> <li>2. For rebuilds, invoice must show number of rebuild kits purchased and installed.</li> </ol>	\$3 each

(continued)

## Irrigation incentives for pivot and linear systems (retrofit only)

Irrigation Measure	Replace	With	Limitations	Customer Incentive
<b>Low-pressure sprinkler (e.g. rotating, wobbling, multi-trajectory spray) replacing impact sprinkler</b>	Impact sprinkler	New low-pressure sprinkler (on-board nozzle is considered part of the sprinkler, not a separate item with additional incentive)	New sprinkler is of same design flow or less	\$3 each
<b>Low-pressure sprinkler (e.g. rotating, wobbling, multi-trajectory spray) replacing worn low-pressure sprinkler</b>	Worn low-pressure sprinkler (e.g. rotating, wobbling, multi-trajectory spray)	New low-pressure sprinkler (on-board nozzle is considered part of the sprinkler, not a separate item with additional incentive)	New sprinkler is of same design flow or less	\$1.50 each
<b>Pressure regulator</b>	Worn pressure regulator. May also add regulator where there had been none before.	New pressure regulator of same design pressure or less.	New regulator must be of same design pressure or less	\$3 each
<b>Gooseneck as part of conversion to low-pressure system</b>	--	New gooseneck as part of conversion to low-pressure system	Gooseneck shall be used to convert existing center pivot with sprinkler equipment mounted on top of the pivot to low-pressure sprinklers with regulators on new drop tubes.	\$0.50/outlet
<b>Drop tube (3 ft. minimum length)</b>	Leaking drop tube	New drop tube (3 ft. minimum length) OR add new drop tube as part of conversion to low-pressure system	Drop tube or hose extension shall extend below the pivot lower brace or shall be a minimum of 3 ft. in length, whichever is greater.	\$2/drop tube

(continued)

## Irrigation incentives for any type of system

(retrofit or new construction, including non-agricultural irrigation applications)

Irrigation Measure	Replace	With	Limitations	Customer Incentive
<b>Irrigation pump VFD</b>	--	Add variable frequency drive to existing or new irrigation pump	<ol style="list-style-type: none"> <li>1. Pumps serving any type of irrigation water transport or distribution system are eligible – wheel lines, hand lines, pivots, linears, fixed-in-place (solid set).</li> <li>2. Both retrofit and new construction projects are eligible.</li> </ol>	\$0.15/kWh annual savings

### Notes for irrigation incentives:

1. Equipment that meets or exceeds the requirements above may qualify for the listed incentive.
2. Except for the pump VFD measure, incentives listed here are available only for retrofit projects where new equipment replaces existing equipment (i.e. new construction is not eligible).
3. Except for the pump VFD measure, equipment installed in fixed-in-place (solid set) systems is not eligible. Incentive is limited to two units per irrigated acre.
4. 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. Energy savings and energy efficiency project costs are subject to Pacific Power approval.

To be eligible for energy efficiency project incentives, the project simple payback before incentives must not exceed eight years. Pacific Power may accept a project with a projected payback period in excess of eight years, if project benefits satisfy the Washington Utilities and Transportation Commission's approved cost-effectiveness test as determined by Pacific Power.

VFD = Variable Frequency Drive



## Incentives for farm and dairy

Equipment Type	Equipment Category	Minimum Efficiency Requirement	Customer Incentive
<b>Automatic Milker Takeoffs</b> (Retrofit only)	--	Equipment must be able to sense milk flow and remove milker when flow reaches a pre-set level. The vacuum pump serving the affected milking units must be equipped with a VFD. Incentive is available for adding automatic milker takeoffs to existing milking systems, not for takeoffs on a brand new system where there was none before. Replacement of existing automatic milker takeoffs is not eligible for this listed incentive but may qualify for a custom energy efficiency incentive.	\$235 each
<b>Agricultural Engine Block Heater Timers</b>	--	Timer must be a UL-listed device and rated for a minimum of 15 amps continuous duty.	\$10 each
<b>High Efficiency Circulating Fans</b> (See note 2)	12-23" diameter	Fan must achieve an efficiency level of 11 cfm/W	\$25/fan
	24-35" diameter	Fan must achieve an efficiency level of 18 cfm/W	\$35/fan
	36-47" diameter	Fan must achieve an efficiency level of 18 cfm/W	\$50/fan
	≥ 48" diameter	Fan must achieve an efficiency level of 25 cfm/W	\$75/fan
<b>Heat Recovery</b>	--	Heat recovery unit must use heat rejected from milk cooling refrigeration system to heat water. Customer must use electricity for water heating.	\$0.15/kWh annual energy savings
<b>High Efficiency Ventilation Fans</b> (See note 2)	12-23" diameter	Fan must achieve an efficiency level of 11 cfm/W	\$45/fan
	24-35" diameter	Fan must achieve an efficiency level of 13 cfm/W	\$75/fan
	36-47" diameter	Fan must achieve an efficiency level of 17 cfm/W	\$125/fan
	≥ 48" diameter	Fan must achieve an efficiency level of 19.5 cfm/W	\$150/fan
<b>Milk Pre-Coolers</b> (Retrofit only)	--	The equipment must cool milk with well-water before it reaches the bulk cooling tank.	\$0.15/kWh annual energy savings
<b>Programmable Ventilation Controllers</b>	--	Controller must control ventilation fans based on temperature or other applicable factors such as humidity, odor concentration, etc.	\$20/fan controlled
<b>Variable Frequency Drives for Dairy Vacuum Pumps</b> (Retrofit only)	--	VFD must vary motor speed based on target vacuum level. Incentive available for retrofit only (i.e. new construction and replacement of existing VFD not eligible).	\$165/hp
<b>Potato or Onion Storage Fan VFD</b>	--	Add variable frequency drive to existing or new fan in potato or onion storage	\$175/hp

### Notes for farm and dairy incentives:

1. Equipment that meets or exceeds the efficiency requirements above may qualify for the listed incentive.
2. Fan performance must be rated by an independent testing body in accordance with the appropriate ANSI/AMCA standards.
3. Incentives are capped at 70 percent of the energy efficiency project costs and incentives will not be available to reduce the energy efficiency project simple payback below one year. Energy savings and energy efficiency project costs are subject to Pacific Power approval. To be eligible for energy efficiency project incentives, the project simple payback before incentives must not exceed eight years. Pacific Power may accept a project with a projected payback period in excess of eight years, if project benefits satisfy the Washington Utilities and Transportation Commission's approved cost-effectiveness test as determined by Pacific Power.
4. Except where noted, all equipment listed in the table is eligible for incentives in both new construction and retrofit projects.

AMCA = Air Movement and Control Association International, Inc.  
ANSI = American National Standards Institute  
cfm = cubic feet per minute

hp = horsepower  
VFD = Variable Frequency Drive  
W = watt

## Incentives for compressed air

Equipment Category	Replace	With	Limitations	Customer Incentive
<b>Receiver Capacity Addition</b>	Limited or no receiver capacity ( $\leq 2$ gallons per scfm of trim compressor capacity)	Total receiver capacity after addition must be $> 2$ gallons per scfm of trim compressor capacity	<ol style="list-style-type: none"> <li>Compressor system size <math>\leq 75</math> hp, not counting backup compressor(s)</li> <li>Trim compressor must use load/unload control, not inlet modulation or on/off control</li> <li>Systems with VFD compressor or using variable displacement compressor are not eligible.</li> </ol>	\$3/gallon above 2 gallons per scfm
<b>Cycling Refrigerated Dryers</b>	Non-cycling refrigerated dryer	Cycling refrigerated dryer	<ol style="list-style-type: none"> <li>Rated dryer capacity must be <math>\leq 500</math> scfm</li> <li>Dryer must operate exclusively in cycling mode and cannot be equipped with the ability to select between cycling and non-cycling mode.</li> <li>Refrigeration compressor must cycle off during periods of reduced demand</li> </ol>	\$2/scfm
<b>VFD Controlled Compressor</b>	Fixed-speed compressor	$\leq 75$ hp VFD-controlled oil-injected screw compressor operating in system with total compressor capacity $\leq 75$ hp, not counting backup compressor capacity	<ol style="list-style-type: none"> <li>Total compressor capacity in upgraded system is <math>\leq 75</math> hp, not counting backup compressor capacity.</li> <li>Compressor must adjust speed as primary means of capacity control</li> </ol>	\$0.15/kWh annual energy savings
<b>Zero Loss Condensate Drains</b>	Timer drain	Zero loss condensate drain (See note 4)	Drain is designed to function without release of compressed air into the atmosphere. Any size system is eligible – there is no restriction on compressor size.	\$100 each
<b>Outside Air Intake</b>	Compressor intake drawing air from compressor room	$\leq 75$ hp compressor where permanent ductwork between compressor air intake and outdoors	Ductwork must meet manufacturer's specifications, which may include: (a) $\leq 0.25$ " W.C. pressure loss at rated flow, and (b) allow use of compressor room air during extremely cold outside air conditions	\$6/hp

### Notes for compressed air incentives:

- Equipment that meets or exceeds the efficiency requirements above may qualify for the listed incentive.
- Except for the zero loss condensate drain measure, eligibility for incentives is limited to compressed air systems with total compressor capacity of 75 hp or less, not including backup compressor capacity that does not normally run.
- 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. Energy savings and energy efficiency project costs are subject to Pacific Power approval. To be eligible for energy efficiency project incentives, the project simple payback before incentives must not exceed eight years. Pacific Power may accept a project with a projected payback period in excess of eight years, if project benefits satisfy the Washington Utilities and Transportation Commission's approved cost-effectiveness test as determined by Pacific Power.
- Zero loss condensate drains purchased as an integral part of another measure are eligible for the incentive shown above.

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 wastewater and other refrigeration

Equipment Type	Replace	With	Customer Incentive
<b>Adaptive Refrigeration Control</b>	Conventional controls (defrost timeclock, space thermostat, evaporator fan control, if any, thermal expansion valve in some instances)	Adaptive refrigeration controller and, in some instances, electric expansion valve	\$0.15/kWh annual energy savings
<b>Fast Acting Door</b>	Manually operated door, automatic door with long cycle time, strip curtain, or entryway with no door in refrigerated/conditioned space	Fast acting door	\$0.15/kWh annual energy savings
<b>Wastewater – Low Power Mixer</b>	Excess aeration capacity	Extended range circulator	\$0.15/kWh annual energy savings

### Notes for wastewater and other refrigeration incentives:

1. Equipment that meets or exceeds the efficiency requirements above may qualify for the listed incentive.
2. Incentives are capped at 70 percent in energy efficiency project costs and incentives will not be available to reduce the energy efficiency project simple payback below one year. Energy savings and energy efficiency project costs are subject to Pacific Power approval. To be eligible for energy efficiency project incentives, the project simple payback before incentives must not exceed eight years. Pacific Power may accept a project with a projected payback period in excess of eight years, if project benefits satisfy the Washington Utilities and Transportation Commission's approved cost-effectiveness test as determined by Pacific Power.