

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	\$0.10/kWh
Without controls upgrade		\$0.06/kWh	
Controls-only retrofit	Controls-only upgrade to advanced dimming controls	\$0.07/kWh	
Non-General Illuminance	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 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.
- Incentives are capped at 70 percent of energy efficiency project costs and 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.
- [Qualified equipment lists](#) referenced in the table are posted on the California energy efficiency program section of Pacific Power's website.
- A complete list of [lighting equipment not eligible for retrofit incentives](#) is available on the California energy efficiency program section of Pacific Power's website.

INCENTIVES FOR LIGHTING (NEW CONSTRUCTION/MAJOR RENOVATION)

MEASURE	CATEGORY	ELIGIBILITY REQUIREMENTS	CUSTOMER INCENTIVE
Interior Lighting*	Lighting and lighting control	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. 2. Energy savings are subject to approval by Pacific Power.	\$0.08/kWh annual energy savings
Exterior Lighting	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	
Custom	Not listed above	\$0.08/kWh annual energy savings	

*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 the 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.

Lighting controls required by or used to comply with the applicable version of the state energy code are not eligible for incentives.

LED = Light-Emitting Diode

INCENTIVES FOR MOTORS

EQUIPMENT TYPE	SIZE CATEGORY	SUB-CATEGORY	MINIMUM EFFICIENCY REQUIREMENT	CUSTOMER INCENTIVE
Electronically Commutated Motor (Retrofit only)	≤ 1 horsepower	Refrigeration application	--	\$0.50/watt
		HVAC application	--	\$50/horsepower
Variable Frequency Drives (HVAC fans and pumps) (Retrofit only)	≤ 100 horsepower	HVAC fans and pumps	See note 2	\$65/horsepower
Green Motor Rewinds	≥ 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 energy code are not eligible for incentives. Savings will only be realized for installations where a variable load is present.
3. 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. Green motor rewind motors that are installed or placed in inventory may qualify for an incentive.

ECM = Electronically Commutated Motor
 GMPG = Green Motors Practices Group
 HVAC = Heating, Ventilation and Air-Conditioning
 VFD = Variable Frequency Drive

INCENTIVES FOR HVAC EQUIPMENT

EQUIPMENT TYPE	SIZE CATEGORY	SUB-CATEGORY	MINIMUM EFFICIENCY REQUIREMENT	CUSTOMER INCENTIVE
Unitary Commercial Air Conditioners, Air-Cooled	< 65,000 Btu/hr	Split system and single package	16 SEER 12.5 EER	\$50/ton
			17 SEER 13.3 EER	\$75/ton
			18 SEER 14 EER	
	≥ 65,000 and < 135,000 Btu/hr	Single package	15 IEER 13 EER	\$50/ton
			12.3 IEER 11 EER	
	≥ 760,000 Btu/hr		13.8 IEER 12 EER	
All equipment sizes	Split system and single package	CEE Tier 2	\$50/ton	
		CEE Advanced Tier	\$75/ton	
Unitary Commercial Air Conditioners, Water-Cooled	< 65,000 Btu/hr	Single package	14 EER	\$25/ton
	≥ 65,000 Btu/hr			
	All equipment sizes	Single system and split package	CEE Tier I	\$25/ton
Unitary Commercial Air Conditioners, Evaporative-Cooled	< 65,000 Btu/hr	Single package	14 EER	\$50/ton
	≥ 65,000 Btu/hr			
	All equipment sizes	Single system and split package	CEE Tier I	\$50/ton
Packaged Terminal Air Conditioners (PTAC)	≤ 8,000 Btu/hr	Single package	12.2 EER	\$25/ton
	> 8,000 Btu/hr and < 10,500 Btu/hr		11.9 EER	
	≥ 10,500 Btu/hr and ≤ 13,500 Btu/hr		10.7 EER	
	> 13,500 Btu/hr		9.9 EER	
Packaged Terminal Heat Pumps (PTHP) (Heating & Cooling mode)	≤ 8,000 Btu/hr	Single package	12.2 EER 3.4 COP	\$50/ton
	> 8,000 Btu/hr and < 10,500 Btu/hr		11.5 EER 3.3 COP	
	≥ 10,500 Btu/hr and ≤ 13,500 Btu/hr		10.7 EER 3.1 COP	
	> 13,500 Btu/hr		9.8 EER 3.0 COP	

(continued)

(continued)

Heat Pump, Air-Cooled (Heating & Cooling Mode)	< 65,000 Btu/hr	Single package (See note 3)	16 SEER 8.5 HSPF	\$50/ton
			17 SEER 9 HSPF	
		Split system (See note 3)	16 SEER 9 HSPF	\$50/ton
	17 SEER 9.4 HSPF			
All equipment sizes	Split system and single package (See note 3)	CEE Tier 2	\$50/ton	
Heat Pumps, Water-Source (Heating & Cooling Mode)	All equipment sizes	(See note 3)	14 EER 4.6 COP	\$50/ton

MINIMUM EFFICIENCY REQUIREMENT & CUSTOMER INCENTIVE					
EQUIPMENT TYPE	SIZE CATEGORY	SUB-CATEGORY	\$25/TON	\$50/TON	\$75/TON
VRF Air-Cooled Heat Pumps (Cooling mode)	All equipment sizes	Multisplit system or multisplit system with heat recovery	--	--	CEE Tier I
VRF Air-Cooled Heat Pumps (Heating mode)	All equipment sizes	Multisplit system or multisplit system with heat recovery (See note 3)	--	--	CEE Tier I
VRF Water-Cooled Heat Pumps (Cooling mode)	< 135,000 Btu/hr	Multisplit system or multisplit system with heat recovery	--	--	CEE Tier I
VRF Water-Cooled Heat Pumps (Heating mode)	< 135,000 Btu/hr	Multisplit system or multisplit system with heat recovery (See note 3)	--	--	CEE Tier I
Heat Pumps, Ground-Source or Groundwater-Source (Heating & Cooling mode)	All sizes	(See note 3)	--	ENERGY STAR [®] qualified	--
Ground-Source or Groundwater-Source Heat Pump Loop	All sizes	--	\$25/ton	--	--

(continued)

(continued)

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 310/380 for PTAC and PTHP units, and AHRI Standard 1230 for VRF systems.
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 in the Consortium for Energy Efficiency Commercial Unitary Air-Conditioning and Heat Pump Specification effective January 16, 2009.
7. Efficiency requirements align with the Unitary Air-Conditioning and Heat Pump Specification maintained by the Consortium for Energy Efficiency (CEE) for equipment with heating sections other than electric resistance. CEE minimum efficiency requirements are listed on the California energy efficiency program section at 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, Ventilation 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
Evaporative Cooling	All sizes	Direct or indirect	--	\$0.06/cfm
Indirect-Direct Evaporative Cooling (IDEC)	All sizes	--	Applicable system components must exceed minimum efficiencies required by energy code	\$0.15/kWh annual energy savings (See note 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	\$0.15/kWh annual energy savings (See note 3)
365/366 Day Programmable or Occupancy-based Thermostat	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
Occupancy-based PTHP/PTAC Control	All sizes with no prior occupancy-based control	--	See note 4	\$50/controller
Evaporative Pre-cooler (Retrofit only)	--	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)
Advanced Rooftop Control Unit (Existing RTU)	≥ 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: 1. Either a supply fan VFD or multi-speed supply fan motor with controller that meets ventilation and space conditioning needs 2. Digital, integrated economizer control	\$2,000
	> 10 tons and ≤ 15 tons			\$2,800
	> 15 tons and ≤ 20 tons			\$4,000
	> 20 tons			\$4,500
Advanced Rooftop Unit Control (Existing RTU, DCV Only)	≥ 5 tons and ≤ 10 tons	Must be installed on existing unitary packaged rooftop units (no split-systems), ≥ 5 tons nominal cooling capacity	Controls must include: 1. Digital, integrated economizer control with either an existing supply fan VFD or an existing multi-speed supply fan motor and controller that meets ventilation and space conditioning needs	\$500
	> 10 tons and ≤ 15 tons			\$600
	> 15 tons and ≤ 20 tons			\$700
	> 20 tons			\$800
Advanced Rooftop Unit Control (New RTU)	≥ 5 tons and ≤ 10 tons	Must be installed on new unitary packaged rooftop units (no split-systems), ≥ 5 tons nominal cooling capacity	Controls must include: 1. Either a supply fan VFD or multi-speed supply fan motor with controller that meets ventilation and space conditioning needs 2. Digital, integrated economizer control	\$1,400
	> 10 tons and ≤ 15 tons			\$2,000
	> 15 tons and ≤ 20 tons			\$2,800
	> 20 tons			\$3,200

(continued)

(continued)

Notes for HVAC equipment and controls 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 are paid at \$0.15/kWh annual energy savings. Chiller energy savings subject to approval by Pacific Power.
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. 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.

CFM = cubic feet per minute

DCV = Demand-Controlled Ventilation

HVAC = Heating, Ventilation and Air-Conditioning

IDEC = Indirect-Direct Evaporative Cooling

PTAC = Packaged Terminal Air Conditioner

PTHP = Packaged Terminal Heat Pump

RTU = Rooftop Unit

INCENTIVES FOR EVAPORATIVE COOLING

EQUIPMENT TYPE	SIZE CATEGORY	SUB-CATEGORY	MINIMUM EFFICIENCY REQUIREMENT	CUSTOMER INCENTIVE
Evaporative Cooling	All sizes	Direct or indirect	--	\$0.06/cfm
Indirect-Direct Evaporative Cooling (IDEC)	All sizes	--	Applicable system components must exceed minimum efficiencies required by energy code	\$0.15/kWh annual energy savings (See note 2)
Evaporative Pre-cooler (Retrofit only)	--	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 HVAC equipment and controls 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.

cfm = cubic feet per minute
 HVAC = Heating, Ventilation and Air-Conditioning
 IDEC = Indirect-Direct Evaporative Cooling

INCENTIVES FOR BUILDING ENVELOPE (RETROFITS)

EQUIPMENT TYPE	CATEGORY	MINIMUM EFFICIENCY REQUIREMENT	CUSTOMER INCENTIVE
Roof/Attic Insulation	Climate Zone 16 only	Minimum increment of R-10 insulation	\$0.08/square foot
Wall Insulation	Climate Zone 16 only	Minimum increment of R-10 insulation	\$0.10/square foot
Windows (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
Window Film	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
Roof/Attic Insulation	Climate Zone 16 only	Assembly U-value exceeds code by $\geq 20\%$	\$0.04/square foot
Wall Insulation	Climate Zone 16 only	Assembly U-value exceeds code by $\geq 20\%$	\$0.05/square foot
Windows (See note 4)	Assembly	U-factor ≤ 0.30 and SHGC ≤ 0.24 (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
Commercial Dishwasher (High temperature models with electric boosters only)	Under counter	ENERGY STAR [®] qualified	\$100
	Stationary rack, single tank, door type		\$400
	Single tank conveyor		\$1,000
	Multiple tank conveyor		\$500
Electric Insulated Holding Cabinet	$V \geq 28$	ENERGY STAR qualified	\$700
	$13 \leq V < 28$		\$300
	$V < 13$		\$200
Electric Steam Cooker	All sizes	ENERGY STAR qualified	\$840
Electric Convection Oven	Full size	ENERGY STAR qualified	\$200
Electric Griddle	--	ENERGY STAR Tier 2 qualified	\$150/linear ft
Electric Combination Oven	6-15 pans	ENERGY STAR qualified	\$750
	16-20 pans		\$350
Ice Machines (Air-cooled only)	Harvest rate ≤ 300 lbs/day	ENERGY STAR qualified	\$100
	Harvest rate 301 – 500 lbs/day	ENERGY STAR qualified	\$150
	Harvest rate 501 – 1,000 lbs/day	ENERGY STAR qualified	\$200
	Harvest rate 1,001 – 1,500 lbs/day	ENERGY STAR qualified	\$300
	Harvest rate $> 1,500$	ENERGY STAR qualified	\$500
Demand Controlled Kitchen Ventilation Exhaust Hood (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)
Anti-sweat Heater Controls (Retrofit only)	Low-Temp (Freezing) Cases	Controls 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 section for additional incentives.

Notes for food service equipment 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. Demand controlled kitchen ventilation exhaust hood energy savings subject to approval by Pacific Power.

ASTM = American Society for Testing and Materials

CEE = Consortium for Energy Efficiency

MDEC = Maximum Daily Energy Consumption

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

INCENTIVES FOR APPLIANCES

EQUIPMENT TYPE	EQUIPMENT CATEGORY	MINIMUM EFFICIENCY REQUIREMENT	CUSTOMER INCENTIVE
High-Efficiency Clothes Washer	Residential (Used in a business)	See Wattsmart Homes program	
	Commercial (Coin-operated/Laundromat) (Must have electric water heating and/or electric clothes dryer)	ENERGY STAR [®] qualified	\$100
Heat Pump Water Heater	Residential (Used in a business)	See Wattsmart Homes 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 [Wattsmart Homes](#) program for efficiency requirements and incentives (if available) for listed residential appliances used in a business.

INCENTIVES FOR OFFICE EQUIPMENT

EQUIPMENT TYPE	MINIMUM EFFICIENCY REQUIREMENT	CUSTOMER INCENTIVE
Smart Plug Strip	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.	\$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.
2. Equipment listed in the table may be eligible for incentives in new construction or retrofit projects.

IRRIGATION INCENTIVES FOR WHEEL LINE, HAND LINE OR OTHER PORTABLE WATER DISTRIBUTION SYSTEMS (RETROFIT ONLY)

IRRIGATION MEASURE	REPLACE	WITH	LIMITATIONS	CUSTOMER INCENTIVE
New rotating sprinkler replacing worn or leaking impact or rotating sprinkler	Leaking or malfunctioning impact or rotating sprinkler	Rotating sprinkler	1. Fixed-in-place (solid set) systems not eligible. 2. Incentives limited to two sprinklers per irrigated acre.	\$3 each
New impact sprinkler replacing worn or leaking impact sprinkler	Leaking or malfunctioning impact sprinkler	New impact sprinkler	1. New nozzle shall be included in new sprinkler. 2. Fixed-in-place (solid set) systems not eligible. 3. Incentive limited to two sprinklers per irrigated acre.	\$3 each
New nozzle replacing worn nozzle of same design flow or less on existing sprinkler	Worn nozzle	New nozzle (including flow control nozzles) of same design flow or less	1. Flow rate shall not be increased. 2. Fixed-in-place (solid set) systems not eligible. 3. Incentive limited to two nozzles per irrigated acre.	\$0.50 each
Cut and press or weld repair of leaking wheel line, hand line or portable main line	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
New or rebuilt wheel line leveler replacing leaking or malfunctioning leveler	Leaking or malfunctioning leveler	New or rebuilt leveler	1. Applies to leaking or malfunctioning levelers only. 2. For rebuilds, invoice must show number of rebuild kits purchased and installed.	\$3 each
New gasket replacing leaking gasket, including mainline valve or section gasket, seal, or riser cap (dome disc)	Leaking gasket	New gasket, including mainline valve or section gasket, seal, or riser cap (dome disc)	1. New gasket must replace leaking gasket 2. Fixed-in-place (solid set) systems not eligible 3. Incentive limited to two gaskets per irrigated acre	\$2 each
New drain replacing leaking drain	Leaking drain	New drain, including drains on pivots and linears	1. New drain must replace leaking drain 2. Fixed-in-place (solid set) systems not eligible 3. Incentive limited to two drains per irrigated acre	\$2 each

(continued)

IRRIGATION INCENTIVES FOR PIVOTS AND LINEAR WATER DISTRIBUTION SYSTEMS (RETROFIT ONLY)

IRRIGATION MEASURE	REPLACE	WITH	LIMITATIONS	CUSTOMER INCENTIVE
Pressure regulator	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
Low-pressure sprinkler (e.g. rotating, wobbling, multi-trajectory spray) replacing impact sprinkler	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
Low-pressure sprinkler (e.g. rotating, wobbling, multi-trajectory spray) replacing worn low-pressure sprinkler	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

IRRIGATION INCENTIVES FOR ANY TYPE OF SYSTEM (RETROFIT OR NEW CONSTRUCTION, INCLUDING NON-AGRICULTURAL IRRIGATION APPLICATIONS)

IRRIGATION MEASURE	REPLACE	WITH	LIMITATIONS	CUSTOMER INCENTIVE
Irrigation pump VFD	--	Add variable frequency drive to existing or new irrigation pump	<ol style="list-style-type: none"> 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). 2. Both retrofit and new construction projects are eligible. 3. 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 	\$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.

VFD = Variable Frequency Drive

INCENTIVES FOR FARM AND DAIRY

EQUIPMENT TYPE	EQUIPMENT CATEGORY	MINIMUM EFFICIENCY REQUIREMENT	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. 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
Agricultural Engine Block Heater Timers	--	Timer must be a UL-listed device and rated for a minimum of 15 amps continuous duty.	\$10 each
High-Efficiency Circulating Fans (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
Heat Recovery	--	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
High-Efficiency Ventilation Fan (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
Milk Pre-Coolers (Retrofit only)	--	The equipment must cool milk with well-water before it reaches the bulk cooling tank.	\$0.15/kWh annual energy savings
Programmable Ventilation Controller	--	The controller must control ventilation fans based on temperature or other applicable factors such as humidity, odor concentration, etc.	\$20/fan controlled
Variable Frequency Drive for Dairy Vacuum Pumps (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
Potato or Onion Storage Fan VFD	--	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.
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
 VFD = Variable Frequency Drive
 w = watt

INCENTIVES FOR COMPRESSED AIR

EQUIPMENT CATEGORY	REPLACE	WITH	LIMITATIONS	CUSTOMER INCENTIVE
Receiver Capacity Addition	Limited or no receiver capacity (≤ 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"> Compressor system size ≤ 75 hp, not counting backup compressor(s). Trim compressor must use load/unload control, not inlet modulation or on/off control. Systems with VFD compressor or using variable displacement compressor as trim compressor are not eligible. 	\$3/gallon above 2 gallons per scfm
Cycling Refrigerated Dryer	Non-cycling refrigerated dryer	Cycling refrigerated dryer	<ol style="list-style-type: none"> Rated dryer capacity must be ≤ 500 scfm. Dryer must operate exclusively in cycling mode and cannot be equipped with the ability to select between cycling and non-cycling mode. Refrigeration compressor must cycle off during periods of reduced demand. 	\$2/scfm
VFD Controlled Compressor	Fixed-speed compressor	≤ 75 hp VFD-controlled oil-injected screw compressor operating in system with total compressor capacity ≤ 75 hp, not counting backup compressor capacity	<ol style="list-style-type: none"> Total compressor capacity in upgraded system is ≤ 75 hp, not counting backup compressor. Compressor must adjust speed as primary means of capacity control. 	\$0.15/kWh annual energy savings
Zero Loss Condensate Drain	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
Outside Air Intake	Compressor drawing intake air from compressor room	Permanent ductwork between compressor air intake and outdoors	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 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 zero loss condensate drain, 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.
- 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
Adaptive Refrigeration Control	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
Fast Acting Door	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
Wastewater – Low Power Mixer	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.