

FinAnswer[®] Express California

RETROFIT INCENTIVES



A change can do you good.

 **PACIFIC POWER**

Let's turn the answers on.



Meek's branch manager Sandy Johnson (pictured above) reported that customers are enthusiastic about lighting upgrades at the Yreka store.

Meek's Lumber and Hardware

"Our employees are more productive. It's a better atmosphere to work in."

Sandy Johnson
Branch Manager
Meek's Lumber and Hardware

The old T12 fluorescent lighting at Meek's Lumber and Hardware in Yreka, Calif., was not living up to the company's standards – the lights were dim and consuming more energy than necessary, driving up costs.

At first, branch manager Sandy Johnson considered just replacing a few lamps to see if that would help. Then one of his suppliers told him about our FinAnswer Express incentive program, which Meek's used to help upgrade to T8 fluorescent lamps with electronic ballasts throughout the store.

Meek's received more than \$2,000 in FinAnswer Express incentives for its lighting project. In addition, the building supply retailer has lowered its annual lighting energy usage by 44 percent and will save an estimated \$2,000 in energy costs each year.

FinAnswer[®] Express California

Is it costing more to run your facility than it should?

If your lighting, HVAC and other equipment haven't been upgraded recently, the answer is probably "yes." We have a brilliant solution for you. With FinAnswer[®] Express, one of our energy efficiency programs for California business customers, we can help you upgrade to energy-efficient lighting, comfortable, energy-saving heating and cooling, and other cost-saving measures.

Surprising as it may sound, we'd like to help you use less energy.

Using less will not only save you money, it can enhance your employees' comfort, productivity and efficiency. Good news for your bottom line. And it's good for all of us and the environment. Participating in energy efficiency programs helps shrink our environmental footprint and is one of the lowest cost resources to meet future energy needs. Just how good does it get?

FinAnswer Express includes incentives and technical expertise.

The incentives apply to lighting and other equipment upgrades that increase your electric energy efficiency and exceed code requirements – both retrofits of existing equipment and new construction/major renovation are eligible.* The incentive amount is based on the equipment installed, so see the incentive tables for a complete list of equipment included in the program. Plus, we provide technical expertise to help you weigh your options. You can choose a Pacific Power Energy Efficiency Alliance vendor or an independent energy consultant for technical expertise.

How it works

Lighting retrofits

- Step 1** Please contact us or an Energy Efficiency Alliance vendor if you'd like help getting started.
- Step 2** Obtain an incentive application and catalog from us or your Energy Efficiency Alliance vendor.
- Step 3** Upgrade your lighting.
- Step 4** Submit incentive application and project cost documentation, including invoices with breakdown of materials and labor, and contact us or your Energy Efficiency Alliance vendor for a post-installation inspection.
- Step 5** Receive your incentive check within 45 days of completion of Step 4.

Pre-approval is recommended but not required for lighting retrofits.

Non-lighting retrofits

- Step 1** Obtain an incentive application and catalog from us or your dealer.
- Step 2** Purchase and install a qualifying unit for use at an eligible location.
- Step 3** Submit your incentive application.
- Step 4** Receive your incentive check within 45 days of completion of Step 3.

Pre-approval is recommended but not required for chiller incentive applications.

Doing something not on the list? Please contact us before you start your project. It may qualify for a custom incentive.

To get started

- Inquire online at pacificpower.net/wattsmart.
- Call our energy services hotline toll free at **1-800-222-4335**.
- Email us at energy.expert@pacificpower.net.

A list of Energy Efficiency Alliance vendors as well as incentive applications are available on our website.

For a copy of the approved tariff, visit the California information at pacificpower.net/regulation and go to Schedule A-115.

**Certain restrictions apply for new construction and major renovations since incentives are for upgrades that exceed energy code requirements. See our FinAnswer Express brochure for new construction and major renovations. Pacific Power's Energy FinAnswer® incentive program is available for more comprehensive projects. Customers can receive one incentive per project. Contact us or visit our website for details.*



Dr. Vanston Shaw, Yreka Union School District superintendent, visits a classroom at Jackson Street Elementary. The district is saving energy and money with lighting upgrades made at the school with help of FinAnswer Express.

Yreka Union School District

“We’re sold on it – we’re looking to expand it to other schools.”

Dr. Vanston Shaw
Superintendent
Yreka Union School District

With the help of our FinAnswer Express program, officials at the Yreka Union School District in Siskiyou County are working to reduce energy costs by upgrading to energy-efficient lighting.

At Jackson Street Elementary School, the school district replaced outdated T12 lamps and fixtures with magnetic ballasts in classrooms, the library and other rooms with high-efficiency T8 lamps and fixtures with electronic ballasts.

The upgrades are estimated to save nearly 40,000 kilowatt-hours of electricity and \$3,000 in energy costs annually. Plus, the school district received \$4,335 in incentives from FinAnswer Express to help pay for the project.

Incentives for lighting retrofits

Measure	Category	Eligibility Requirements	Customer Incentive
T8 Fluorescent	Standard	4' lamp ≤ 32 watts, electronic ballast (EB) with ballast factor ≤ 0.88 (See note 3)	\$3/lamp
	Premium	4' CEE qualified reduced wattage or high performance lamp and CEE qualified ballast included on qualified ballast list	\$7/lamp
	Delamp	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.	\$21/lamp removed
	Relamp	Lamp wattage reduction ≥ 3 watts, no ballast retrofit	\$0.25/lamp
	High Bay	4' CEE qualified high performance lamp. Must replace T12HO, incandescent or HID in a high ceiling application	\$20/lamp
T5 Fluorescent	Standard	4" nominal lamp ≤ 28 watts, ballast factor ≤ 1.0	\$5/lamp
	Relamp	Lamp wattage reduction ≥ 3 watts, no ballast retrofit	\$0.25/lamp
	High Bay	4' nominal high output lamp	\$20/lamp
Cold Cathode	Screw-in lamp	All wattages	\$5/lamp
Compact Fluorescent Lamp (CFL)	Hardwired fixture	All wattages	\$5/fixture
Ceramic Metal Halide (CMH)	CMH fixture	All wattages	\$35/fixture
Pulse Start Metal Halide (PSMH)	PSMH fixture	Wattages > 500W	\$60/fixture
	Electronic ballast	Must be used in place of or replace a magnetic ballast	\$20/ballast
Induction	Induction fixture	All wattages. New fixtures only.	\$125/fixture
Light-Emitting Diode (LED)	Integral screw-in lamp	LED must be listed on qualified equipment list	\$10/lamp
	Recessed downlight	LED must be listed on qualified equipment list	\$10/fixture
	Outdoor area and roadway	LED must be listed on qualified equipment list	\$100/fixture
	Parking garage	LED must be listed on qualified equipment list	\$100/fixture
	High and low bay	LED must be listed on qualified equipment list	\$100/fixture

(continued)



Let's turn the answers on.

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Notes for lighting retrofit incentives:

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 4' 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 available at pacificpower.net/wattsmart.

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



Let's turn the answers on.

Incentives for lighting controls and non-general illuminance retrofits

Measure	Category	Eligibility Requirements	Customer Incentive
Lighting Control	Occupancy control	PIR, dual tech or Integral Sensor	\$75/sensor
	Daylighting control	Must control fixtures with qualifying dimming ballast(s)	\$75/sensor
	Advanced daylighting control	Must incorporate both an occupancy sensor and daylighting sensor operating as part of the same control sequence in the same space.	\$150
	Dimming ballast	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.	\$15/ballast
Non-General Illuminance	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

Notes for retrofit lighting controls and non-general illuminance 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.
3. Incentives for advanced daylighting controls may not be combined with other lighting control incentives.

Dual Tech = Sensors combining ultrasonic and passive infrared
 LED = Light-Emitting Diode
 PIR = Passive Infrared



Let's turn the answers on.

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)	≤ 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.
4. **Incentives are not available for NEMA premium efficiency motors purchased on or after December 19, 2010.**

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



Let's turn the answers on.

Incentives for HVAC equipment

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	15.0 SEER 12.5 EER	--	--
	< 65,000 Btu/hr (three phase)	Split system	--	14.0 SEER 12.0 EER	15.0 SEER 12.5 EER
		Single package	--	14.0 SEER 11.6 EER	15.0 SEER 12.0 EER
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	Split system and single package	--	11.5 EER 12.8 IEER	12.0 EER 13.8 IEER
	≥ 135,000 Btu/hr and < 240,000 Btu/hr	Split system and single package	--	11.5 EER 12.3 IEER	12.0 EER 13.0 IEER
	≥ 240,000 Btu/hr and < 760,000 Btu/hr	Split system and single package	--	10.3 EER 11.1 IEER	10.6 EER 12.1 IEER
≥ 760,000 Btu/hr	Split system and single package	--	9.7 EER 10.9 IEER	10.2 EER 11.6 IEER	
Unitary Commercial Air Conditioners, Water Cooled	< 65,000 Btu/hr	Split system and single package	--	14.0 EER	--
	≥ 65,000 Btu/hr and < 135,000 Btu/hr		--	13.8 EER	--
	≥ 135,000 Btu/hr		--	13.8 EER	--
Unitary Commercial Air Conditioners, Evaporatively Cooled	< 65,000 Btu/hr	Split system and single package	--	14.0 EER	--
	≥ 65,000 Btu/hr and < 135,000 Btu/hr		--	13.8 EER	--
	≥ 135,000 Btu/hr		--	13.3 EER	--
Packaged Terminal Air Conditioners (PTAC)	≤ 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	--	--
Packaged Terminal Heat Pumps (PTHP) (Heating & Cooling Mode)	≤ 8,000 Btu/hr	Single package	--	12.2 EER 3.4 COP	--
	> 8,000 Btu/hr and < 10,500 Btu/hr	Single package	--	11.5 EER 3.3 COP	--
	≥ 10,500 Btu/hr and ≤ 13,500 Btu/hr	Single package	--	10.7 EER 3.1 COP	--
	> 13,500 Btu/hr	Single package	--	9.8 EER 3.0 COP	--

(continued)



Let's turn the answers on.

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Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement & Customer Incentive		
			\$25/ton	\$50/ton	\$75/ton
Heat Pumps, Air-Cooled (Cooling Mode)	< 65,000 Btu/hr (single phase)	Split system and single package	15.0 SEER 12.5 EER	--	--
	< 65,000 Btu/hr (three phase)	Split system	--	14.0 SEER 12.0 EER	--
		Single package	--	14.0 SEER 11.6 EER	--
	≥ 65,000 Btu/hr and < 135,000 Btu/hr	Split system and single package	--	11.3 EER 12.3 IEER	--
	≥ 135,000 Btu/hr and < 240,000 Btu/hr	Split system and single package	--	10.8 EER 11.8 IEER	--
	≥ 240,000 Btu/hr	Split system and single package	--	10.3 EER 10.7 IEER	--
Heat Pumps, Air-Cooled (Heating Mode) – See note 2	< 65,000 Btu/hr (single phase)	Split system	8.5 HSPF	--	--
		Single package	8.0 HSPF	--	--
	< 65,000 Btu/hr (three phase)	Split system	--	8.5 HSPF	9.0 HSPF
		Single package	--	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	--
		17°F db/15°F wb outdoor air	--	2.4 COP	--
	≥ 135,000 Btu/hr	47°F db/43°F wb outdoor air	--	3.2 COP	--
17°F db/15°F wb outdoor air		--	2.1 COP	--	
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 2	< 135,000 Btu/hr	68°F Entering Water	--	4.6 COP	--
Heat Pumps, Ground-Source or Groundwater-Source (Heating & Cooling Mode) – See note 2	All sizes	77°F Entering Water	--	ENERGY STAR [®] qualified	--
Equipment Type	Size Category	Sub-Category	Customer Incentive		
Ground-Source or Groundwater-Source Heat Pump Loop	All sizes	Open loop	\$25/ton		
		Closed loop			

(continued)



Let's turn the answers on.

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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 both 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. IPLV may be used to demonstrate compliance with minimum efficiency requirements using an equivalent IEER approved by Pacific Power.
6. Efficiency requirements align with the Unitary Air-conditioning and Unitary Heat Pump Specification maintained by the Consortium for Energy Efficiency and are listed on CEE's website and on the Pacific Power website.

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



Let's turn the answers on.

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	Industry Standard Rating (ISR)	\$0.06/ISR CFM
Indirect-Direct Evaporative Cooling (IDEC)	All sizes	--	Applicable system components must exceed minimum efficiencies required by energy code	See note 3
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 4
Room Air Conditioner	Residential (used in a business)	--	See Home Energy Savings program	See note 6
365/366 Day Programmable Thermostat	All sizes in portable classrooms with mechanical cooling	Must be installed in portable classroom unoccupied during the summer months	365/366 day thermostatic setback capability	\$150/thermostat
Occupancy Based PTHP/PTAC control	All sizes with no prior occupancy based control	--	See note 5	\$50/controller

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 for all equipment listed in the incentive table are available via a post-purchase application process.
3. 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.
4. 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.
5. 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.
6. 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
 PTAC = Packaged Terminal Air Conditioner
 PTHP = Packaged Terminal Heat Pump



Let's turn the answers on.

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 ≤ 0.30 and SHGC ≤ 0.33 (glazing only rating)	\$0.34/square foot
	Assembly	U-factor ≤ 0.30 and SHGC ≤ 0.33 (entire window assembly rating)	\$0.34/square foot
Window Film	Existing windows	See note 5	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 \$0.12/kWh annual energy savings. Energy savings subject to approval by Pacific Power.

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



Let's turn the answers on.

Incentives for food service equipment

Equipment Type	Equipment Category	Minimum Efficiency Requirement	Customer Incentive
Residential Dishwasher	Used in a business	See Home Energy Savings program	See note 2
Commercial Dishwasher (Electric Water Heating Only) (See note 3)	Under counter	ENERGY STAR [®] qualified	\$500
	Stationary rack, single tank, door type		\$1,000
	Single tank conveyor		\$1,500
	Multiple tank conveyor		\$2,000
Electric Insulated Holding Cabinet	Full Size – Tier 1	ENERGY STAR qualified	\$300
	¾ Size – Tier 1		\$250
	½ Size – Tier 1		\$200
	Full Size – Tier 2	Watts/cubic foot ≤ 20 W (See note 4)	\$600
	¾ Size – Tier 2		\$500
	½ 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 (See note 4)	\$350
Electric Griddle	Tier 1	ENERGY STAR Tier 1 qualified	\$250
	Tier 2	ENERGY STAR Tier 2 qualified	\$350
Electric Combination Oven	--	Heavy Load Efficiency ≥ 60%, Idle Energy Rate ≤ 3 kW (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)	Tier 1: Harvest rate < 500 lbs/day	ENERGY STAR qualified	\$125
	Tier 1: Harvest rate ≥ 500 lbs/day		\$150
	Tier 2: Harvest rate < 500 lbs/day	CEE Tier 3 qualified	\$250
	Tier 2: Harvest rate ≥ 500 lbs/day		\$400
Residential Refrigerator	Used in a business	See Home Energy Savings program	See note 2

(continued)



Let's turn the answers on.

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Equipment Type	Equipment Category	Minimum Efficiency Requirement	Customer Incentive
Commercial Glass Door Refrigerator	0 < V < 15	ENERGY STAR qualified	\$100
	15 ≤ V < 30		\$125
	30 ≤ V < 50		\$150
	50 ≤ V		\$175
	Chest configuration		\$75
Commercial Glass Door Freezer	0 < V < 15	ENERGY STAR qualified	\$300
	15 ≤ V < 30		\$325
	30 ≤ V < 50		\$375
	50 ≤ V		\$800
	Chest configuration		\$100
Commercial Solid Door Refrigerator	0 < V < 15	ENERGY STAR qualified	\$50
	15 ≤ V < 30		\$75
	30 ≤ V < 50		\$100
	50 ≤ V		\$125
	Chest configuration		\$75
Commercial Solid Door Freezer	0 < V < 15	ENERGY STAR qualified	\$150
	15 ≤ V < 30		\$175
	30 ≤ V < 50		\$200
	50 ≤ V		\$300
	Chest configuration		\$150
High-Efficiency Refrigerated Beverage Vending Machine (See note 5)	Class A	MDEC = 0.055 × V + 2.56	\$150
	Class B	MDEC = 0.073 × V + 3.16	
LED Case Lighting (Retrofit only)	--	LED replacing fluorescent lamp in refrigerated cases	\$10/linear foot

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. Please 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.**

ASTM = American Society for Testing and Materials
MDEC = Maximum Daily Energy Consumption

CEE = Consortium for Energy Efficiency
V = Volume (cubic feet)



Let's turn the answers on.

Incentives for appliances

Equipment Type	Equipment Category	Minimum Efficiency Requirement	Customer Incentive
High-Efficiency Clothes Washer	Residential (used in a business)	See Home Energy Savings program	
	Commercial (e.g. coin-operated/laundromat) (must have electric water heating)	ENERGY STAR [®] qualified	\$150
		CEE Tier 3 qualified	\$200
Electric Water Heater	Residential (used in a business)	See Home Energy Savings program	
Appliance Recycling	Residential (used in a business)	See Home Energy Savings program	

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.

CEE = Consortium for Energy Efficiency



Let's turn the answers on.

Incentives for agricultural irrigation retrofits

Irrigation Measure	Replace	With	Limitations	Customer Incentive
Sprinkler Pressure Regulators	Worn or faulty regulator	New pressure regulator	Must be same design pressure or less	\$2.75/each
Rotating Low-Pressure or Spray-Type Sprinklers or Low-Pressure Sprinkler Heads	Worn rotating, impact, or spray-type sprinklers	New rotating type, spray heads, or low-pressure sprinkler heads	Must be same design flow or less	\$3 each (up to 70% of measure costs)
Impact Sprinklers	Worn or leaking impact sprinkler	New or rebuilt impact sprinkler	--	\$3 each (up to 70% of measure costs)
Sprinkler Nozzles	Existing worn nozzle	New brass or plastic nozzle	Must be same design flow or less	\$0.25 each
Flow-Controlling Type Nozzles	Existing worn flow-controlling type nozzles	New flow-controlling type nozzles	Must be same design flow or less	\$1.50 each
Riser Caps, Drains and Gaskets for Wheel Lines, Hand Lines, Pivots or Portable Main Lines	Worn and leaking drains and gaskets	New drains and gaskets. Also includes seals and riser caps (dome discs) for valve openers	--	\$1 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/outlet
Repair Leaking Wheel Lines, Hand Lines and Portable Main Lines	Worn and leaking pipe connections	Cut and pipe press or weld repair of leaking pipe connections	Invoice must show number of joints repaired	\$8/joint
Wheel-Line Leveler	Worn or faulty wheel-line leveler	New or rebuilt wheel-line leveler	--	\$0.75 each
Center Pivot Base Boot Gasket	Worn and leaking center pivot base boot gasket	New center pivot base boot gasket	--	\$80 each
Wheel-Line Feed Hose	Worn or leaking wheel-line feed hose	New or rebuilt wheel-line feed hose	--	\$15 each
Wheel-Line Hubs (for Thunderbird type wheel lines)	Worn or leaking hub	New wheel-line hub	--	\$12 each
Irrigation Pump VFD	--	Add VFD to existing irrigation pump motor	--	See note 4

Notes for agricultural irrigation incentives:

1. Irrigation measures that meet the replacement requirements listed in the above table may qualify for the listed incentive. Excepting the irrigation pump VFD measure, fixed in place systems are not eligible for the incentives listed above.
2. 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 is subject to Pacific Power approval.

VFD = Variable Frequency Drive



Let's turn the answers on.

Incentives for dairy/farm equipment

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 to slow the vacuum pump's speed when demand for vacuum is reduced. Incentive available for retrofit only. Replacements of existing automatic milker takeoffs are not eligible for incentives, except where Pacific Power permits as 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
Circulating Fans (See note 2)	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 refrigeration compressor to heat water. Customer must use electricity to heat water.	\$220/condenser kW
High Efficiency Ventilation Systems (See note 2)	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 3
Programmable Ventilation Controller	--	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 for systems without an existing VFD.	\$165/hp

Notes for dairy/farm 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. Fan performance must be rated by an independent testing body in accordance with the appropriate ANSI/AMCA standards.
3. Incentives are paid at \$0.12/kWh annual energy savings + \$50/kV average monthly demand savings. Milk pre-cooler energy and demand savings subject to approval by Pacific Power.
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



Let's turn the answers on.

Incentives for compressed air

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 ≤ 1 psi when new and ≤ 3 psi at element change 2. Particulate filtration is 100% at ≥ 3.0 microns, 99.98% at 0.1 to 3.0 microns, with ≤ 5 ppm liquid carryover 3. Filter is deep-bed "mist eliminator" style, with element life ≥ 5 years 4. Rated capacity of filter is ≤ 500 scfm	1. Compressor system must be ≥ 25 hp and ≤ 75 hp	\$0.80/scfm
Receiver Capacity Addition	Limited or no receiver capacity (≤ 2 gallons per scfm of trim compressor capacity)	Total tank receiver capacity after addition must be > 2 gallons per scfm of trim compressor capacity	1. Compressor system size ≤ 75 hp 2. 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/scfm
Refrigerated Cycling Dryers	Non-cycling refrigerated dryer	Cycling refrigerated dryer	1. Compressor system size ≤ 75 hp 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	VFD-controlled oil-injected screw compressor	1. Single operating compressor ≤ 75 hp 2. Compressor must adjust speed as primary means of capacity control 3. Compressor must not use inlet modulation when demand is below minimum speed air production	\$0.15/kWh annual energy savings (see note 3)
Zero Loss Condensate Drains	Fixed timer drain	Zero loss condensate drain (See note 6)	Drain is designed to function without release of compressed air into the atmosphere (no maximum compressor system size)	\$90 each
Outside Air Intake	Compressor intake drawing air from compressor room	Permanent ductwork between compressor air intake and outdoors	1. Compressor system size ≤ 75 hp 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 outdoor air conditions	\$6/hp

(continued)



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Notes for compressed air incentives:

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.
2. Equipment that meets or exceeds the efficiency requirements listed for the equipment category in the above table may qualify for the listed incentive.
3. 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.
4. Zero loss condensate drains purchased as requirements for other compressed air 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



Let's turn the answers on.

Incentives for other equipment

Equipment Type	Minimum Efficiency Requirements	Customer Incentive
Network PC Power Management Software	<ol style="list-style-type: none">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 savings results.	\$7 per controlled PC (up to 100% of measure costs)
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 other 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. All equipment listed in the table may be eligible for incentives in new construction or retrofit projects.
3. Energy efficiency measure costs for network PC power management software are subject to Pacific Power approval.

PC = Personal Computer



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