



ADVICE LETTER SUMMARY

ENERGY UTILITY



MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No.: PacifiCorp (U 901 E)

Utility type:

- ELC GAS WATER
 PLC HEAT

Contact Person: Pooja Kishore

Phone #: (503) 813-7314

E-mail: californiadockets@pacificorp.com

E-mail Disposition Notice to: californiadockets@pacificorp.com

EXPLANATION OF UTILITY TYPE

ELC = Electric GAS = Gas WATER = Water
 PLC = Pipeline HEAT = Heat

(Date Submitted / Received Stamp by CPUC)

Advice Letter (AL) #: 742-E

Tier Designation: 1

Subject of AL: 2024 Energy Efficiency Program Changes

Keywords (choose from CPUC listing):

AL Type: Monthly Quarterly Annual One-Time Other:

If AL submitted in compliance with a Commission order, indicate relevant Decision/Resolution #: D.21-12-034

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL: n/a

Summarize differences between the AL and the prior withdrawn or rejected AL: n/a

Confidential treatment requested? Yes No

If yes, specification of confidential information:

Confidential information will be made available to appropriate parties who execute a nondisclosure agreement. Name and contact information to request nondisclosure agreement/ access to confidential information:

Resolution required? Yes No

Requested effective date: 7/15/24

No. of tariff sheets: n/a

Estimated system annual revenue effect (%): n/a

Estimated system average rate effect (%): n/a

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: n/a

Service affected and changes proposed¹: n/a

Pending advice letters that revise the same tariff sheets: n/a

¹Discuss in AL if more space is needed.

Protests and all other correspondence regarding this AL are due no later than 20 days after the date of this submittal, unless otherwise authorized by the Commission, and shall be sent to:

CPUC, Energy Division
Attention: Tariff Unit
505 Van Ness Avenue
San Francisco, CA 94102
Email: EDTariffUnit@cpuc.ca.gov

Name: Pooja Kishore
Title: Regulatory Manager
Utility Name: PacifiCorp
Address: 825 NE Multnomah St., Suite 2000
City: Portland State: Oregon
Telephone (xxx) xxx-xxxx: (503) 813-7314
Facsimile (xxx) xxx-xxxx:
Email: californiadockets@pacificorp.com

Name:
Title:
Utility Name:
Address:
City: State: Wyoming
Telephone (xxx) xxx-xxxx:
Facsimile (xxx) xxx-xxxx:
Email:

ENERGY Advice Letter Keywords

Affiliate	Direct Access	Preliminary Statement
Agreements	Disconnect Service	Procurement
Agriculture	ECAC / Energy Cost Adjustment	Qualifying Facility
Avoided Cost	EOR / Enhanced Oil Recovery	Rebates
Balancing Account	Energy Charge	Refunds
Baseline	Energy Efficiency	Reliability
Bilingual	Establish Service	Re-MAT/Bio-MAT
Billings	Expand Service Area	Revenue Allocation
Bioenergy	Forms	Rule 21
Brokerage Fees	Franchise Fee / User Tax	Rules
CARE	G.O. 131-D	Section 851
CPUC Reimbursement Fee	GRC / General Rate Case	Self Generation
Capacity	Hazardous Waste	Service Area Map
Cogeneration	Increase Rates	Service Outage
Compliance	Interruptible Service	Solar
Conditions of Service	Interutility Transportation	Standby Service
Connection	LIEE / Low-Income Energy Efficiency	Storage
Conservation	LIRA / Low-Income Ratepayer Assistance	Street Lights
Consolidate Tariffs	Late Payment Charge	Surcharges
Contracts	Line Extensions	Tariffs
Core	Memorandum Account	Taxes
Credit	Metered Energy Efficiency	Text Changes
Curtable Service	Metering	Transformer
Customer Charge	Mobile Home Parks	Transition Cost
Customer Owned Generation	Name Change	Transmission Lines
Decrease Rates	Non-Core	Transportation Electrification
Demand Charge	Non-firm Service Contracts	Transportation Rates
Demand Side Fund	Nuclear	Undergrounding
Demand Side Management	Oil Pipelines	Voltage Discount
Demand Side Response	PBR / Performance Based Ratemaking	Wind Power
Deposits	Portfolio	Withdrawal of Service
Depreciation	Power Lines	

June 14, 2024

VIA ELECTRONIC FILING

California Public Utilities Commission
Energy Division
Tariff Unit, 4th Floor
505 Van Ness Avenue
San Francisco, CA 94102
Email: edtariffunit@cpuc.ca.gov

**Re: PacifiCorp (U 901-E) Advice Letter No. 742-E
2024 Energy Efficiency Program Changes**

PacifiCorp, d/b/a Pacific Power (PacifiCorp or Company), hereby submits this Advice Letter 742-E as required by California Public Utilities Commission (CPUC or Commission) Decision (D.) 21-12-034, Ordering Paragraph 3, directing PacifiCorp to file a Tier 1 Advice letter on program changes. The filing provides information on changes to existing programs for 2024 to align with (electronic technical resource manual) eTRM statewide workpapers as of September 1, 2023, and make other improvements such as increasing Wattsmart Business participation over 2023 levels.

Background

On October 7, 2022, PacifiCorp submitted Advice Letter 697-E requesting the approval of the budget for the 2023-2024 energy efficiency program funding levels, in compliance with D.21-12-034. On December 19, 2022, the Commission issued a disposition letter approving PacifiCorp's Biennial Budget Advice Letter for 2023-2024 Energy Efficiency Programs (2023-2024 BBAL).¹ In the conclusion in this disposition, "ED staff encourages PacifiCorp use PY2023-2024 to learn about additional savings opportunities in their EE portfolio and work towards overachieving their program savings targets in PY2025-2026."

On March 30, 2023, PacifiCorp submitted Tier 1 Advice letter 714-E for program changes for 2023 that were outlined in the 2023-2024 BBAL.

On May 8, 2023, the Commission issued a disposition letter accepting Advice Letter 714-E and the Home Energy Savings and Wattsmart Business program changes were effective June 15, 2023.

On April 2, 2024, PacifiCorp filed its 2023 Annual Report on Energy Efficiency Programs (2023 Annual Report). Wattsmart Business participation in 2023 was less than projected in the 2023-2024 BBAL. PacifiCorp noted this on page 11 of the 2023 Annual Report: "The Wattsmart Business team downloaded the statewide workpapers from the eTRM as of September 1, 2023, and began work in 2023 on program changes for 2024 to align with new and updated statewide

¹ Advice Letter 697-E.

workpapers and to seek ways to improve program performance such as by increasing lighting incentives. This work was underway as of the end of 2023 and will be completed in 2024.”

On May 24, 2024, PacifiCorp emailed a draft of this filing for review and comment by Energy Division Staff. In addition to the draft filing, PacifiCorp provided tables with estimated energy savings compared to the Approved Target, estimated expenditures compared to the Approved Budget, and projected equity and administrative expenses as a percent of overall projected expenditures. The email included a request for comments by June 7, 2024, and a proposed schedule for filing. PacifiCorp followed up and did not receive a response and proceeded with the filing.

The changes for 2024 for PacifiCorp’s existing programs, Home Energy Savings and Wattsmart Business, are described in the enclosed attachments, which include an explanation of the changes as well as incentive tables marked in redline to show the changes relative to the current programs. Also provided for each program is an eTRM alignment review.

Cost-effectiveness analysis for the programs with the changes was reviewed using the model used for the 2023-2024 BBAL. The resource acquisition portfolio (Wattsmart Business) with the program changes is projected to not be cost effective from both the Total Resource Cost and Program Administrator Cost perspectives (TRC and PAC <1.0). However, the projected cost-effectiveness is an improvement from results in the 2023 Annual Report. The Company anticipates these program changes will help improve cost-effectiveness moving forward and reflect an upward trend in benefit/cost ratios. Home Energy Savings, an equity program, is not required to meet the TRC of 1.0 requirement.

Upon receipt of a disposition letter on this Advice letter, PacifiCorp will post notices of the changes on its website at least 45 days prior to the effective date of the changes.

PROTEST

Anyone wishing to protest this filing may do so only electronically. Protests must be received no later than July 5, 2024. Protests should be submitted to the CPUC Energy Division at:

E-mail: EDTariffUnit@cpuc.ca.gov

In addition, protests and all correspondence regarding this advice letter should also be sent electronically to the attention of:

Pooja Kishore
Regulatory Affairs Manager
E-mail: californiadockets@pacificorp.com

Joseph Dallas
Senior Attorney
E-mail: joseph.dallas@pacificorp.com

There are no restrictions on who may file a protest, but the protest shall set forth specifically the grounds upon which it is based and shall be submitted expeditiously.

EFFECTIVE DATE

In accordance with the Decision D.21-12-034, Ordering Paragraph 3, this advice letter filing is submitted as a Tier 1 filing. PacifiCorp respectfully requests a disposition on or before July 15, 2024, so a notice of the program changes can be posted on the company's website on or before July 18, 2024, and the program changes can be effective within 45 days.

In addition, PacifiCorp respectfully requests that all data requests regarding this matter be addressed to:

By email (preferred): datarequest@pacificorp.com

By regular mail: Data Request Response Center
PacifiCorp
825 NE Multnomah Street, Suite 2000
Portland, OR 97232

NOTICE

In accordance with General Order 96-B, Section 4, a copy of this Advice Letter will be served electronically or via U.S. mail to parties shown on the GO 96-B service list and on the service list for A.20-12-018, copies of which are attached. A request for change of address in the GO 96-B service list should be directed by electronic mail to californiadockets@pacificorp.com. Advice letter filings may also be accessed electronically at www.pacificpower.net/regulation.

PacifiCorp respectfully requests that all data requests regarding this matter be addressed to (with a copy to the Company's counsel):

By email (**preferred**): datarequest@pacificorp.com

By regular mail: Data Request Response Center
PacifiCorp
825 NE Multnomah, Suite 2000
Portland, OR 97232

Company Counsel: Joe Dallas
Senior Attorney
Pacific Power
825 NE Multnomah, Suite 2000
Portland, OR 97232
Telephone: (503) 813-5701
E-mail: joseph.dallas@pacificorp.com

Please direct any informal questions to Pooja Kishore, Regulatory Affairs Manager, at (503) 813-7314.

Sincerely,



Matthew McVee
Vice President, Regulatory Policy and Operations

Enclosures

Attachments:

- Attachment A: Home Energy Savings (HES) Program
 - CA_HES_Planned_Modifications for 2024_ Exhibit 1 and 2.docx
 - Explains the changes for Home Energy Savings, includes incentive tables redlined to show changes relative to the current program
 - Exhibit 3 eTRM Alignment Review HES program changes for 2024.docx
 - Explains alignment with eTRM/statewide workpapers for Home Energy Savings measures
- Attachment B: Wattsmart Business Program
 - PacifiCorp CA Wattsmart Business Planned changes for 2024.docx
 - Explains the changes for Wattsmart Business
 - Exhibit A CA Wattsmart Business incentive tables effective 6-15-2023_changes for 2024 redlined.docx
 - Incentive tables redlined to show changes relative to the current program
 - Exhibit B CA 2024 Lighting Project Incentive Analysis
 - Exhibit C Wattsmart Business eTRM alignment review_2024 program changes.docx
 - Explains alignment with eTRM/statewide workpapers for Wattsmart Business listed measures
- Attachment C: Cost Effectiveness analysis for the programs with changes:
 - Attachment C.1_PCorp CA BBAL PY2024 - WSB with Portfolio Costs Summary.docx (resource acquisition)
 - Attachment C.2_PCorp CA BBAL PY2024 - Portfolio Memo.docx (equity and resource acquisition)

cc: Service List for GO 96-B
Service List for A.20-12-018

Attachment A
Home Energy Savings Program

PacifiCorp's Planned Changes to Home Energy Savings Program in California Proposed Effective Date of September 1, 2024

PacifiCorp (Pacific Power) is planning modifications to the Home Energy Savings energy efficiency incentive program, which is offered through Schedule D-118. The planned changes are intended to continue to update the program based on new/updated statewide energy efficiency workpapers as of September 1, 2023, to continue to achieve efficiency targets provided through an equity-based program. The proposed changes are intended to align with the 2023 change from a resource acquisition program to an equity program.

Schedule D-118 includes the basic program elements: customer eligibility, use of a program administrator for delivery, the seasonal nature of selected incentive offers, and that current incentive levels may change. Specific details on all aspects of the program including incentive levels, eligible equipment specifications and dates for incentive availability are managed by the program administrator using a dedicated [program web site](#)¹ with links from the [Pacific Power web site](#).

Consistent with the change process for the Home Energy Savings program approved in Decision D.21-12-034 on December 16, 2021, the program changes for 2024 will be filed in a Tier 1 Advice Letter, and following a disposition on the Tier 1 Advice Letter, notice of the changes will be posted on the program website 45 days prior to implementation. Proposed changes to the incentive tables are included in Exhibit 1.

Background

Home Energy Savings, an equity program, is available to residential customers in the Company's California service territory and offers incentives for prescriptive measures which improve energy efficiency. The current Program offers incentives for energy efficient appliances, water heating, Heating, Ventilation, and Air Conditioning (HVAC), and new homes packages. Incentives are available for both existing homes and new homes. The Program was first approved by the California Public Utilities Commission on February 29, 2008.² The program was modified on April 12, 2010, June 12, 2014, August 26, 2019, September 24, 2020, March 15, 2021, March 28, 2022, and again on June 15, 2023, to maintain participation, incorporate changing codes and standards, and most recently to shift Home Energy Savings to an equity program in California.

In 2024, the Home Energy Savings program will continue to run as an equity program and will continue to offer incentives for central brushless fan motors, clothes dryers, ductless heat pumps, heat pump conversions, refrigerators and freezers, room air cleaners, room air conditioners, and smart connected power strips. The higher cost HVAC measures will have enhanced incentives for qualifying hard-to-reach and Tribal customers, and eligibility will be defined on the program website. The customer eligibility language is provided below:

¹ <https://wattsmartsavings.net/california-residential/>

² Decision 08-01-041 dated January 31, 2008.

“California residential customers eligible for California Alternative Rates for Energy (CARE) and/or customers residing on tribal lands are eligible for enhanced HVAC incentives.”

In addition to offering enhanced incentives for certain hard-to-reach customers, the Home Energy Savings equity program will continue to target subsets of the Company’s residential customers as follows:

- Target non-English speaking customers with Spanish program materials.
- Utilize focused lead generation developed in consultation with Tribes to engage Tribal customers.
- Coordinate with local organizations to educate other underserved and minority groups about the program and offerings.
- Target multifamily tenants by direct mail, using the multifamily residential rate code.

The program will continue the energy savings kits offering to a subset of customers meeting hard-to-reach and/or Tribal criteria in 2024. The program plans to continue engaging customers residing on Tribal lands, before offering the kits to a broader set of hard-to-reach customers. An estimated 300 energy savings kits were delivered for this initiative in 2023, and an additional 300 kits are planned in 2024. Kit measures will continue to include products that are easy to self-install and include four LED bulbs, a showerhead, two bath aerators, and a kitchen aerator. The kit will also include informational inserts to educate customers about additional energy saving opportunities.

Description of Planned Home Energy Savings Changes

The program modifications are summarized below in Tables 1-8 with complete details provided in the revised incentive tables, which are provided in Exhibits 1 and 2.³ All changes reflect alignment with current statewide workpapers in the eTRM.

In addition to these ongoing initiatives, the program will make the following changes to Home Energy Savings offerings:

- Add Schedule DT to serve customers participating in time-of-use
- Modify heat pump water heater efficiency requirements based on updated workpaper values
- Modify the central brushless fan motor measure incentive to match the updated workpaper normalizing unit of sq-ft of conditioned floor area of the site where the motor is being replaced.

³ Exhibit 1 contains the Home Energy Savings program incentive tables, which were originally provided as part of Exhibit J in A.07-07-011 and further modified using the program change process described in Schedule D-118. The incentive tables currently in effect are marked to show the planned changes.

Cost-Effectiveness

Cost effectiveness analysis for the program was previously provided as part of PacifiCorp's 2023-2024 Biennial Budget Advice Letter (Advice 697-E or 2023-2024 BBAL) filed October 7, 2022. The 2023-2024 BBAL also includes a comprehensive description of the Company-specific model used for the analysis. This same model was updated for the planned 2024 program changes. The portfolio segment for Home Energy Savings is Equity, so the program is not required to meet a Total Resource Cost test performance standard.

Electronic Technical Reference Manual (eTRM) Alignment Review

As described in Application 20-12-018,⁴ upcoming program changes will be defined as part of budget advice letter preparation. Each budget advice letter will align with statewide workpapers available on the eTRM website (<http://www.caltf.org/etrm-overview>) as of September 1 of a filing year. Decision 21-12-034 changed the frequency of budget advice letters from annual to biennial. The last biennial budget advice letter was filed in 2022 for 2023-2024 and with the last program change in 2023, measures were aligned with the eTRM as of September 1, 2022. This program change for 2024 includes updates based on a review of the eTRM as of September 1, 2023. The tables in Exhibit C include each listed Home Energy Savings measure, whether it is a deemed measure, the relevant measure in the eTRM statewide workpapers, and information about alignment of the Home Energy Savings measure and the eTRM measure.

Evaluation Plan

The Company offers the Home Energy Savings program in its other service territories. Evaluations are conducted at the program level with reports prepared for each state. Consistent evaluation plans throughout PacifiCorp's system-wide territory reduce administrative costs for the program. The most recent evaluation⁵ was for the 2021-2022 program.

Exhibits Provided

Exhibit 1 - HES Explanation of Planned Modifications

Exhibit 2 - HES Incentive Tables – Red-lined

Exhibit 3 - Home Energy Savings Electronic Technical Reference Manual (eTRM)
Alignment Review

Cost-Effectiveness analysis –
Attachment C.1_PCorp CA BBAL PY2024 - WSB with Portfolio Costs
Summary.docx (resource acquisition)

⁴ See page 23 of Application 20-12-018, approved in Decision D.21-12-034.

⁵ Available in the Demand-Side Management Annual Reports section on this page - <https://www.pacificorp.com/environment/demand-side-management.html>

Exhibit 1 - Explanation of Changes

Applicable Section

Description of Change	Reason for Change
<p>Modify the list of eligible rate schedules in the “Applicable” section to add Schedule DT.</p>	<p>Adding Schedule DT since this is a new option for residential customers. Any customers billed at this rate will pay the Schedule S-191 public purpose charge that funds the Company’s energy efficiency programs, and these customers should be eligible for the program.</p> <p>The company plans to file to change the Schedule D-118 tariff to remove the list and indicate that the list will be maintained and available on the website (in the Exhibit 1 document). This will allow revisions to the list of eligible rate schedules to be included in the program change filings and avoid the need for two filings when there is a need to modify the list of eligible rate schedules.</p>

Table 2 – Water Heating Incentive Table Modifications

Program Modifications – Water Heating Incentives			
Measure Name	Description of Changes	Current Offering	Revised Offerings
Heat Pump Water Heater	Revise efficiency requirements, separate out customer and market partner incentives.	<u>Qualification:</u> <ul style="list-style-type: none"> > 45 and ≤ 55 gallons: 3.09 or 3.31 UEF Measure is available in single family, multifamily, and manufactured home installations as either new construction or normal replacement. <u>Customer/Market Partner Incentive:</u> <ul style="list-style-type: none"> Up to \$400 	<u>Qualification:</u> <ul style="list-style-type: none"> > 45 and ≤ 55 gallons: 3.30, 3.50. or 3.75 UEF Measure is available in single family, multifamily, and manufactured home installations as either new construction or normal replacement. <u>Customer/Market Partner Incentive:</u> <ul style="list-style-type: none"> \$400

I

Table 4 – HVAC Incentive Table Modifications

Program Modifications – HVAC Incentives			
Measure Name	Description of Changes	Current Offering	Revised Offerings
Central Brushless Fan Motor	Revise incentive offering.	<u>Qualification:</u> <ul style="list-style-type: none"> Must replace a permanent split capacitor (PSC) or shaded pole residential fan (blower) motor. Measure is available in single family, multifamily, and manufactured home installations as normal replacement <u>Customer Incentive:</u> <ul style="list-style-type: none"> \$15/ton 	<u>Qualification:</u> <ul style="list-style-type: none"> Must replace a permanent split capacitor (PSC) or shaded pole residential fan (blower) motor. Measure is available in single family, multifamily, and manufactured home installations as normal replacement <u>Customer Incentive:</u> <ul style="list-style-type: none"> \$0.10/sq-ft conditioned floor area

Exhibit 2

California Home Energy Savings Program – Changes to the current incentives marked in redline form Measures, Incentives, and Qualifications

Applicable:

To new and existing residential customers in all territory served by Pacific Power in the state of California billed on Schedule D, DL-6, DS-8, DM-9, DT or NEM-35. Landlords who own rental properties served by Pacific Power in the state of California where the tenant is billed on Schedule D, DL-6, DS-8, DM-9, or NEM-35 also qualify for this program.

General Notes

- Incentive cannot exceed the total price of a product or service.
- All work must be installed per local, state, and federal building codes and requirements.

Per unit incentives for specific Energy Efficiency Measures (EEMs) are listed in the program incentive tables below. Current incentives can be found at <https://wattsmartsavings.net/california-residential/>.

Table 1 - Appliance Incentives Table

Measure	Qualifications	Customer Incentive
Clothes Washer	<ul style="list-style-type: none">• ENERGY STAR certified• Measure is available in single family, multifamily, and manufactured home installations as either new construction or normal replacement.	\$20
Clothes Dryer	<ul style="list-style-type: none">• ENERGY STAR® certified• Measure is available in single family, multifamily, and manufactured home installations as either new construction or normal replacement.	\$50
Refrigerator or Freezer	<ul style="list-style-type: none">• Must be on ENERGY STAR® qualifying list.• Measure is available in single family, multifamily, and manufactured home installations as normal replacement.	\$20
Room Air Cleaner	<ul style="list-style-type: none">• Must meet clean air delivery rate (CADR) to watt ratio listed on program website.• Measure is available in single family, multifamily, and manufactured home installations as either new construction or normal replacement.	\$40

Smart Connected Power Strip	<ul style="list-style-type: none"> • Must meet Tier 2 connected advanced power strip specifications as listed on program website. • Measure is available in single family, multifamily, and manufactured home installations as add-on equipment. 	\$30
-----------------------------	--	------

Notes for appliance incentive table:

- See additional installation requirements and qualifying models on the program website.
- Incentives for appliances apply to mid/upstream and/or downstream. Only one incentive will be provided per qualifying measure.
- Incentives for appliance measures may be paid to the customer, retailer, and/or manufacturer and may be split between customer, retailer, and/or manufacturer.
- Incentives are not available for coin-operated clothes washers.

Table 2 - Water Heating Incentives Table

Measure	Qualifications	Customer Incentive	Market Partner Incentive
Heat Pump Water Heater	<ul style="list-style-type: none"> • > 45 and ≤ 55 gallons: 3.30, 3.50, or 3.75 UEF • Measure is available in single family, multifamily, and manufactured home installations as either new construction or normal replacement. 	Customer Install: \$400	Customer Install: \$0
		Contractor Install: \$200	Contractor Install: \$200
Smart Pump	<ul style="list-style-type: none"> • High performance circulator pump must have variable speed controls to accommodate demand. • Pump must utilize an electronically commutated motor, have an integrated variable frequency drive, and have onboard pump controlling logic with self-optimizing programming to allow the pump to learn and operate at the best efficiency point on the pump curve. • Measure is available in single family or multifamily domestic hot water applications as either new construction or normal replacement. • Hydronic heating applications are excluded from this measure. 	\$75	
Faucet Aerator/Flow Control Valve	<ul style="list-style-type: none"> • The existing faucet must have a flow rate of at least 2.2 gallons per minute (gpm) and must not have an aerator installed. • Measure is available in single family, manufactured, or multifamily homes as add-on equipment. 	\$5	

	<ul style="list-style-type: none"> • Kitchen sink aerators/flow control valves (FCVs) must reduce flow rate to 1.5 gpm or less. • Lavatory sink aerators/FCVs must reduce flow rate to 1.2 gpm or less. • This measure is not applicable to new faucets that meet or exceed 2016 CA Appliance Efficiency Regulations (Title 20) code requirement of 1.2 gpm flow rate for lavatory faucet and 1.8 gpm flow rate for kitchen faucet. 	
Low Flow Showerhead	<ul style="list-style-type: none"> • Measure is available in single family, manufactured, or multifamily homes as normal replacement or new construction. • The showerhead must be 1.7 gpm or less. 	\$4
Flow Restriction Valve	<ul style="list-style-type: none"> • Measure is available in single family, manufactured, or multifamily homes as add-on equipment. • Flow restriction valve must be 1.7 gpm or less. 	\$30

Notes for water heating incentive table:

- Market partner incentives for all water heating measures apply to upstream or midstream.
- Home where measure is installed must have electrically heated domestic hot water
- See additional installation requirements on the program website.
- Acronyms:
FCV: Flow control valve
GPM: Gallons per minute
UEF: Uniform Energy Factor

Table 3 - New Homes Incentives Table

Measure	Qualifications	Customer Incentive
New Homes Whole Home Performance Path	To align with the California Advanced Homes Program, the Program will offer incentives to builders based on the new homes' percentage improvement beyond Title 24, beginning at 15% better than code and increasing. The home's performance will be modeled and verified by independent third parties and the models will be delivered to the program for final savings and incentives calculations. See program website details.	Up to \$5,000

Notes for new homes incentive table:

- Incentives for all New Homes measures apply to downstream or mid/upstream. Only one incentive will be provided per home.
- Incentives may be paid to the customer, builder, and/or Rater and may be split between customer, builder, and/or Rater. The sum of the incentive payments per unit will be clearly displayed on the program website with applicable dates. The end use portion of the incentive may be changed.
- See additional installation requirements on the program website.

Table 4 – HVAC Incentives Table

Measure	Qualifications	Incentive
Smart Thermostat	<ul style="list-style-type: none"> • ENERGY STAR® certified. • Home must have a ducted heat pump as its primary heating source. • Measure is available in single family, multifamily, and manufactured home installations as normal replacement. 	\$50
Central Brushless Fan Motor	<ul style="list-style-type: none"> • Must replace a permanent split capacitor (PSC) or shaded pole residential fan (blower) motor. • Measure is available in single family, multifamily, and manufactured home installations as normal replacement. 	\$0.10/sq-ft conditioned floor area
Ductless Heat Pump – Multifamily	<ul style="list-style-type: none"> • Minimum 9.0 HSPF. • The previous primary heat source must have been a permanently installed electric resistance heating system. • Measure is available in multifamily home installations as normal replacement. 	\$1,000
Ductless Heat Pump – Multifamily Hard-to-Reach		\$1,500
Ductless Heat Pump replacing Forced Air Furnace	<ul style="list-style-type: none"> • Minimum 9.0 HSPF. • The previous primary heat source must have been a permanently installed electric forced air furnace. • Measure is available in single family and manufactured home installations as normal replacement. 	\$1,500
Ductless Heat Pump replacing Forced Air Furnace Hard-to-Reach		\$2,000

Ductless Heat Pump replacing Zonal heat	<ul style="list-style-type: none"> • Minimum 9.0 HSPF. • The previous primary heat source must have been a permanently installed zonal electric heating system. 	\$1,500
Ductless Heat Pump replacing Zonal heat Hard-to-Reach	<ul style="list-style-type: none"> • Measure is available in single family and manufactured home installations as normal replacement. 	\$2,000
Heat Pump Conversion	<ul style="list-style-type: none"> • Minimum 9.0 HSPF. • The previous primary heat source must have been a permanently installed electric resistance heating system. • Measure is available in single family, multifamily, and manufactured home installations as normal replacement. 	\$2,500
Room Air Conditioner	<ul style="list-style-type: none"> • ENERGY STAR® certified • Measure is available in single family, multifamily, and manufactured home installations as either new construction or normal replacement. 	\$10

Notes for HVAC incentives table:

- Maximum of one smart thermostat per household.
- See additional installation requirements on the program website.
- Enhanced “Hard-to-Reach” incentives are available for customers meeting requirements listed on the program website.

Definitions

British Thermal Unit (Btu): It is approximately the amount of energy needed to heat 1 pound of water from 39° to 40° Fahrenheit.

Consortium for Energy Efficiency (CEE): A consortium of US and Canadian gas and electric efficiency program administrators. Members work to unify program approaches across jurisdictions to increase the success of efficiency in markets. CEE members define one or more tiers of energy performance for a particular product or service. A specification is an advanced level of energy performance, higher than is normal in a market, for a residential, commercial, or industrial product or service.

Cubic Feet per Minute (CFM): A measurement of the velocity at which air flows into or out of a space.

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

DEER (Database for Energy Efficiency Resources): is a California Energy Commission and California Public Utilities Commission-sponsored database designed to provide well-documented estimates of energy and peak demand savings values, measure costs, and effective useful life all with one data source.

Direct Install: Installation of an Energy Efficiency Measure directly by the Company, Program, or a Program-approved contractor or other 3rd party.

Downstream: Payment of incentive made by the Company to a customer, owner, contractor or other approved third party for the purchase or installation of an Energy Efficiency Measure pursuant to an approved energy efficiency incentive application.

Energy Efficiency Incentive: Payments of money made by Company to Owner or Customer or other approved party for installation of an Energy Efficiency Measure pursuant to an approved Energy Efficiency Incentive Application or Invoice.

Energy Factor (EF): Indicates a water heater's overall energy efficiency based on the amount of hot water produced per unit of fuel consumed over a typical day. The higher the energy factor, the more efficient the water heater. This is an older measure of water heater efficiency that is being phased out and replaced with Uniform Energy Factor (UEF).

Heating Seasonal Performance Factor (HSPF): The efficiency of heat pumps measured by the ratio of Btu heat output over the heating season to watt-hours of electricity used. The higher the number, the greater the efficiency.

Heating, Ventilation and Air Conditioning (HVAC): Refers to technology of indoor environmental comfort.

Light-emitting Diode (LED): A semiconductor light source.

Manufactured Homes (mobile homes): A type of prefabricated housing that is largely assembled in factories and transported to the site of use. Units are at least 320 square feet and installed with a permanent chassis to assure the initial and continued transportability of the home.

Mid-Market: An approved third party (typically a contractor, retailer, or manufacturer) who installs Energy Efficiency Measures on the real property or sells Energy Efficiency Measures to a Customer.

Modified Energy Factor (MEF): Measures energy consumption of the total laundry cycle (washing and drying). It indicates how many cubic feet of laundry can be washed and dried with one kWh of electricity; the higher the number, the greater the efficiency.

NEEA: Northwest Energy Efficiency Alliance.

New Home: A newly constructed single-family residence or a complete remodel of an existing structure into a new living space.

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

Regional Technical Forum (RTF): Part of the Northwest Power & Conservation Council, the RTF is an advisory committee established in 1999 to develop standards to verify and evaluate conservation savings.

R-Value: Indicates insulation's resistance to heat flow. The higher the R-value, the greater the insulating effectiveness.

Seasonal Energy Efficiency Ratio (SEER): The efficiency of air conditioners, measured by the cooling output in Btu during a typical cooling-season, divided by the total electric energy input in watt-hours during the same period. The higher the unit's SEER rating, the more energy efficient it is.

Uniform Energy Factor (UEF): The newest measure of water heater overall efficiency. The higher the UEF value is, the more efficient the water heater.

Upstream: Payment of incentive made by the Company directly to a manufacturer, retailer, or other pre-approved vendor to apply a pre-purchase discount for customers.

Home Energy Savings Electronic Technical Reference Manual (eTRM) Alignment Review

As described in Application A.20-12-018,¹ upcoming program changes will be defined as part of budget advice letter preparation. Each budget advice letter will align with statewide workpapers available on the eTRM website (<http://www.caltf.org/etrm-overview>) as of September 1 of a filing year. The tables below include each Home Energy Savings measure, the relevant measure in the eTRM statewide workpapers, and information about alignment of the Home Energy Savings measure and the eTRM measure.

Appliance Incentives Table

Wattsmart HES Measure	Wattsmart HES Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Sunset Date	Aligned with eTRM Measure	Explanation of Variance	Source
Clothes Washers	✓		✓	Active		Yes		SWAP004-03 Clothes Washer, Residential
Clothes Dryer	✓		✓	Active		Yes		SWAP003-04 Clothes Dryer, Residential
Refrigerator or Freezer	✓		✓	Active		Yes		SWAP001-05 Refrigerator or Freezer, Residential
Room Air Cleaner	✓		✓	Active		Yes		SWAP008-02 Room Air Cleaner, Residential
Smart Connected Power Strip	✓		✓	Active		Yes		SWAP010-01 Smart Connected Power Strip

¹ See page 23 of Application 20-12-018, approved in D.21-12-034.

Water Heating Incentives Table

Wattsmart HES Measure	Wattsmart HES Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Sunset Date	Aligned with eTRM Measure	Explanation of Variance	Source
Heat Pump Water Heater	✓		✓	Active		Yes		SWWH014-04 Heat Pump Water Heater
Smart Pump	✓		✓	Active		Yes		SWWH022-01 Smart Pump, Residential
Faucet Aerator/Flow Control Valve	✓		✓	Active		Yes		SWWH001-03 Faucet Aerator, Residential
Low Flow Showerhead	✓		✓	Active		Yes		SWWH002-03 Low-Flow Showerhead, Residential
Flow Restriction Valve	✓		✓	Active		Yes		SWWH002-03 Low-Flow Showerhead, Residential

New Homes Incentives Table

Wattsmart HES Measure	Wattsmart HES Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Sunset Date	Aligned with eTRM	Explanation of Variance	Source
New Homes Whole Home Performance Path		✓		1		N/A	Savings are compared to a referenced home meeting title 24 requirements.	

Notes

1. Measure has not been defined in eTRM.

HVAC Incentives Table

Wattsmart HES Measure	Wattsmart HES Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Sunset Date	Aligned with eTRM Measure	Explanation of Variance	Source
Smart Thermostat	✓		✓	Active		Yes		SWHC039-06 Smart Thermostat, Residential
Central Brushless Fan Motor	✓		✓	Active		Yes		SWHC038-03 Brushless Fan Motor Replacement, Residential

Wattsmart HES Measure	Wattsmart HES Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Sunset Date	Aligned with eTRM Measure	Explanation of Variance	Source
Ductless Heat Pump - Multifamily	✓			1		N/A	The program aligns with the Regional Technical Forum (RTF) deemed savings values.	Workbook: Ductless Heat Pumps for Multifamily v2.0 https://rtf.nwcouncil.org/measure/ductless-heat-pumps-multifamily/
Ductless Heat Pump – Multifamily Hard-to-Reach	✓			1		N/A	The program aligns with the Regional Technical Forum (RTF) deemed savings values.	Workbook: Ductless Heat Pumps for Multifamily v2.0 https://rtf.nwcouncil.org/measure/ductless-heat-pumps-multifamily/
Ductless Heat Pump replacing Forced Air Furnace	✓			1		N/A	The program aligns with the Regional Technical Forum (RTF) deemed savings values.	Workbook: Ductless Heat Pumps for Forced Air Furnace SF and MH v4.0 https://rtf.nwcouncil.org/measure/ductless-heat-pump-forced-air-furnace-sf-and-mh/
Ductless Heat Pump replacing Forced Air Furnace Hard-to-Reach	✓			1		N/A	The program aligns with the Regional Technical Forum (RTF) deemed savings values.	Workbook: Ductless Heat Pumps for Forced Air Furnace SF and MH v4.0 https://rtf.nwcouncil.org/measure/ductless-heat-pump-forced-air-furnace-sf-and-mh/
Ductless Heat Pump replacing Zonal heat	✓			1		N/A	The program aligns with the Regional Technical Forum (RTF) deemed savings values.	Workbook: Ductless Heat Pumps for Zonal Heat v6.0 https://rtf.nwcouncil.org/measure/ductless-heat-pumps-zonal-heat-sf/
Ductless Heat Pump replacing Zonal heat Hard-to-Reach	✓			1		N/A	The program aligns with the Regional Technical Forum (RTF) deemed savings values.	Workbook: Ductless Heat Pumps for Zonal Heat v6.0 https://rtf.nwcouncil.org/measure/ductless-heat-pumps-zonal-heat-sf/

Wattsmart HES Measure	Wattsmart HES Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Sunset Date	Aligned with eTRM Measure	Explanation of Variance	Source
Heat Pump Conversion	✓			1		N/A	The program aligns with the Regional Technical Forum (RTF) deemed savings values.	Workbook: Air Source Heat Pump Upgrades and Conversions SF v6.1 https://rtf.nwcouncil.org/measure/air-source-heat-pump-upgrades-sf/
Room Air Conditioner	✓		✓	Active		Yes		SWAP007-02 Room Air Conditioner, Residential

Notes

1. Measure has not been defined in eTRM statewide workpaper and has not been expired in eTRM

Attachment B
Wattsmart Business Program

Planned Changes to Wattsmart Business - California Proposed Effective Date – September 1, 2024

PacifiCorp (Pacific Power) is planning modifications to the Wattsmart Business energy efficiency incentive program, which is offered through Schedule A-140. The planned changes are intended to increase participation, improve cost-effectiveness relative to 2023 results, and continue to update the program based on new/updated statewide energy efficiency workpapers as of September 1, 2023, to continue to improve consistency with other California energy efficiency programs. These changes are part of an effort to implement improvements ahead of the next Biennial Budget Advice Letter (BBAL) due September 2024.

Consistent with the change process for the Wattsmart Business program approved in Decision D.21-12-034 on December 16, 2021, the program changes for 2024 will be filed in a Tier 1 Advice letter, and, following a disposition on the Tier 1 Advice letter, notice of the changes will be posted on the program website¹ 45 days prior to implementation. Proposed changes to the incentive tables are included in Exhibit A.

Background

Wattsmart Business, a resource acquisition program, is available to the Company's commercial, industrial and irrigation customers in California² and offers incentives and technical assistance for prescriptive/listed, custom, and energy management measures. Incentives are available for both retrofit projects and new construction/major renovation projects.

The program in California was last updated in June 2023. The prescriptive/listed measures in the program periodically require updates to maintain alignment with energy code, standards, third-party specifications, California's Electronic Technical Reference Manual (eTRM) statewide workpapers, and market data that change over time. The program performance in 2023 and the need to increase participation and cost-effectiveness are also major factors behind the changes. As part of this set of program changes, the Company is incorporating the appropriate updates for 2024.

Description of Planned Wattsmart Business Changes

These changes are intended to:

- Increase and expand lighting incentives to increase participation.
- Introduce vendor incentives for lighting and small business lighting to encourage vendors to propose more lighting projects in Pacific Power's California service area.
- Align with [statewide workpapers in the eTRM](#),³ including removal, addition, or modification of measures.

¹ <https://www.pacificpower.net/savings-energy-choices/business/wattsmart-efficiency-incentives-california.html>

² The Wattsmart Business program is available in California, Washington, Idaho, Utah and Wyoming with some variation by state.

³ <http://www.caltf.org/etrm-overview>

- Introduce measure offerings for UL type B LED Mogul Base Lamp HID Retrofits for Outdoor Area/Pole and Decorative Fixtures
- Add Schedule AT-29 to the list of rate schedules eligible for the program and remove Schedule LS-58.
- Make other minor changes.

Explanation of Changes

The planned program changes are listed and explained in the tables below. For additional details, refer to the revised Wattsmart Business incentive tables and information, attached as Exhibit A. Exhibit A is marked in redline form to show the planned changes relative to the current program⁴

Applicable – Exhibit A, page 1	
Description of Change	Reason for Change
Modify the list of eligible rate schedules in the “Applicable” section to add Schedule AT-29 and remove Schedule LS-58.	<p>Adding Schedule AT-29 since this is a new option for business customers. Any customers billed at this rate will pay the Schedule S-191 public purpose charge that funds the Company’s energy efficiency programs, and these customers should be eligible for the program.</p> <p>Remove Schedule LS-58 from the list since it was canceled.</p> <p>The company plans to file to change Schedule A-140 tariff to remove the list and to indicate this list will be maintained and available on the website (in the Exhibit A document). This will allow revisions to the list of eligible rate schedule to be included in the program change filings and avoid the need for two filings when there’s a need to modify the list of eligible rate schedules.</p>

Retrofit Lighting, Exhibit A, page 4-5		
Measure	Description of Change	Reason for Change
T8 TLED Lamp – UL Type A	Revise to incentivize UL Type A/B lamp when configured as UL Type A or Type B	UL Type A/B lamp can be configured to function as either UL Type A or Type B. The statewide workpaper SWLG 009-04 and SWLG018-03 has deemed savings for either configuration.
T8 TLED Lamp – UL Type B		
Interior Lighting (site-specific) – Controls only upgrade to Advanced Controls	Remove measure	Incentives will be available for controls only upgrades to Advanced Controls via the “Custom” interior lighting site specific measure.

⁴ For reference, the current program and incentive tables can be found at https://www.pacificpower.net/content/dam/pcorp/documents/en/pacificpower/savings-energy-choices/wattsmart-business/california/CA_wattsmartBusiness_Definitions_Incentive_Tables_Information.pdf

Interior Lighting – Custom	Increase incentive by approximately 25%	Increasing the incentive is expected to increase participation. For more information on this change, please refer to Exhibit B, Lighting Project Incentive Analysis.
Interior Lighting — Custom with Advanced Controls	Add new measure	Advanced controls are more costly to install than lamps and basic controls; a higher incentive is created to encourage customer participation.
Exterior Lighting – deemed measures UL Type B LED Mogul Base Lamp	Add new measures	Add new retrofit lighting measures from statewide workpaper SWLG020-01 to expand lighting options and increase participation.
Exterior Lighting – site specific measures	Add new measure	Add a new offering to expand lighting options and increase participation.

HVAC Equipment Incentives, Exhibit A, page 7-8		
Measure	Description of Change	Reason for Change
Packaged Terminal Heat Pumps	Add heating mode efficiency requirement	The latest statewide workpaper now lists heating mode efficiency requirement in addition to cooling mode requirement.
Heat Pump, Air Cooled, replacing electric resistance heating	Change the minimum efficiency requirement from CEE to ENERGY STAR Simplify the incentive table by consolidating heating mode and cooling mode requirements	The ENERGY STAR light commercial heating & cooling specification took effect January 1, 2023, and requires higher efficiency than most CEE tiers in addition to addressing the new M1 testing procedure for small heat pumps. However, the ENERGY STAR specification only addresses heat pumps less than 240,000 Btu/hr. Larger heat pumps may be eligible for the program’s custom non-lighting incentive.

Food Service Equipment Incentives, Exhibit A, pages 10-11		
Measure	Description of Change	Reason for Change
Electric Griddle	Specify that electric griddles must be single sided to be eligible for incentives	Deemed savings from statewide workpaper SWFS004-01 Commercial Griddle is only applicable to single-sided griddle.

Appliance Incentives, Exhibit A, page 12		
Measure	Description of Change	Reason for Change
Heat Pump Water Heater	Modify minimum efficiency requirement	The latest statewide workpaper SWWH031-03 has deemed savings for heat pump water starting with 3.30 UEF. The program minimum

		efficiency requirement is modified to align with the statewide workpaper.
Appliance measures	Add notes	Add notes to clarify requirements for incentives.

Enhanced Incentives for Small Business Lighting (Retrofit), Exhibit A, pages 18		
Measure	Description of Change	Reason for Change
T8 TLED Lamp – UL Type A T8 TLED Lamp – UL Type B	Revise to incentivize UL Type A/B lamp when configured as UL Type A or Type B	UL Type A/B lamp can be configured to function as either UL Type A or Type B. The statewide workpaper has deemed savings for either configuration.

Electronic Technical Reference Manual (eTRM) Alignment Review

As described in Application 20-12-018,⁵ upcoming program changes will be defined as part of budget advice letter preparation. Each budget advice letter will align with statewide workpapers available on the eTRM website (<http://www.caltf.org/etrm-overview>) as of September 1 of a filing year. Decision 21-12-034 changed the frequency of budget advice letters from annual to biennial. The last biennial budget advice letter was filed in 2022 for 2023-2024 and with the last program change in 2023, measures were aligned with the eTRM as of September 1, 2022. This program change for 2024 includes updates based on a review of the eTRM as of September 1, 2023. The tables in Exhibit C include each listed Wattsmart Business measure, whether it is a deemed measure, the relevant measure in the eTRM statewide workpapers, and information about alignment of the Wattsmart Business measure and the eTRM measure.

Vendor Incentives

To encourage participation in the Wattsmart Business program and to increase participation in select measures and for targeted customers, vendor incentives may be offered to Wattsmart Business vendors in good standing for qualifying projects. These incentives will be first come, first served until funding is exhausted, with per vendor caps for specific measures, such as lighting, to provide motivation for vendors to complete multiple projects. Initially, vendor incentives will be available for lighting and small business lighting projects and begin at the same time as the 2024 program changes.

Transition Plan for Projects in Progress

For projects where pre-approval is required (e.g., custom measures), the version of the program that applies is based on the incentive offer issue date.

⁵ See page 23 of Application 20-12-018, approved in Decision D.21-12-034.

For projects where pre-approval is not required, the version of the program is based on the equipment purchase order/invoice date for the first item(s) purchased for the project.

Cost-Effectiveness

Cost effectiveness analysis for the program was previously provided as part of PacifiCorp's 2023-2024 Biennial Budget Advice Letter (Advice 697-E or 2023-2024 BBAL) filed October 7, 2022. The 2023-2024 BBAL also includes a comprehensive description of the Company-specific model used for the analysis as well as a description of cost-effectiveness challenges. This same model was updated for the planned 2024 program changes.

The 2023 Annual Report showed that the Wattsmart Business program achieved a total resource cost and program administrator cost benefit/cost ratio of 0.55 and 0.64 for each respective test. With the planned 2024 changes, the Wattsmart Business program forecast total resource cost and program administrator cost benefit/cost ratios are not anticipated to meet or exceed 1.0 in 2024. However, the program (including portfolio costs) is forecasted to improve its cost benefit ratios relative to 2023 results to a total resource benefit/cost ratio of 0.88 and a program administrator cost/benefit ratio of 0.94.

Not including portfolio costs, the program is forecasted to have a total resource benefit/cost ratio of 0.97 and a program administrator cost/benefit ratio of 1.05.

Evaluation Plan

The Company offers Wattsmart Business in its other service areas. Evaluations are conducted at the program level with reports prepared for each state. Consistent evaluation plans throughout PacifiCorp's system-wide territory reduce administrative costs for the program. The most recent evaluation⁶ was for the 2020-2021 program and was completed in December 2022.

Exhibits Provided

Exhibit A – CA Wattsmart Business incentive tables effective 6-15-2023_with proposed changes for 2024 marked in redline form.

Exhibit B – Lighting Project Incentive Analysis

Exhibit C – Wattsmart Business eTRM alignment review

Cost-Effectiveness analysis

- Attachment C.1_PCorp CA BBAL PY2024 - WSB with Portfolio Costs Summary.docx (resource acquisition)
- Attachment C.2_PCorp CA BBAL PY2024 - Portfolio Memo.docx (equity and resource acquisition)

⁶https://www.pacificorp.com/content/dam/pcorp/documents/en/pacificorp/environment/dsm/california/California_2018-2019_WSB_Evaluation_Final.pdf

Wattsmart Business

APPLICABLE:

To new and existing service under the Company's General Service Schedules A-25, A-32, A-36, AT-29, AT-47, AT-48, LS-53, OL-42, and PA-20 in all territory served by the Company in the State of California including non-residential facilities on Schedule NEM-35.

Incentives for Measures Listed in the Incentive Tables

Per unit incentives are listed in the program incentives tables for specific Energy Efficiency Measures (EEMs) and are subject to the incentive caps below. Incentives are subject to change and current incentives can be found on the California energy efficiency program section of the Pacific Power website.

Custom Incentives

Energy efficiency measures not listed in the incentive tables may be eligible for a custom incentive. Pacific Power will complete an analysis of the measure cost and electric energy savings and determine whether to offer a custom incentive and the incentive amount.

Energy Management Incentives

Non-capital improvements to operations and maintenance within a qualifying facility may be eligible for an Energy Management Incentive. Pacific Power will partner with the customer to complete an analysis of the electric energy savings of potential energy management measures and determine whether to offer an Energy Management Incentive and the incentive amount.

Energy Project Manager Co-funding

Pacific Power may fund an additional \$0.025 per kilowatt-hour (kWh) of verified Wattsmart Business annual energy savings, up to 100 percent of the Energy Project Manager's salary. Salary is based on a letter from the Customer/Owner's human resources or accounting department stating the base annual salary and an appropriate overhead percentage and will be subject to approval by Pacific Power.

Baseline Adjustments

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

INCENTIVES:^{1,2,3}

Category		Incentive	Percent Project Cost Cap ⁴	1-Year Simple Payback Cap for Projects ⁵	Other Limitations
Prescriptive Incentives (Listed Measures)	Lighting – Retrofit (deemed measures)		None	No	
	Lighting – Retrofit (site-specific measures)	See incentive lists	80%	Yes	See incentive lists
	Lighting – New Construction/Major Renovation (Facilities where energy code applies)		None	No	
	Lighting – New Construction/Major Renovation (Facilities where energy code does not apply)		80%	Yes	
	Motors		None	No	
	HVAC		None	No	
	Food Service		None	No	
	Appliances		None	No	
	Irrigation		None	No	
	Farm and Dairy		80%	Yes	
	Compressed Air		80%	Yes	
	Wastewater and other Refrigeration		80%	Yes	
Enhanced Incentives for Small Businesses	Lighting – Retrofit		See incentive lists	90%	
Custom Non-Lighting Incentives for qualifying measures not on the prescriptive list. ⁶		\$0.15 per annual kWh savings	80%	Yes	N/A
Energy Management		\$0.02 per kWh annual savings	N/A	No	N/A
Energy Project Manager Co-Funding		\$0.025 per kWh annual savings	100% of salary and eligible overhead	No	Minimum savings goal posted on Pacific Power website ⁷

¹ The Customer or Owner may receive only one financial incentive from Pacific Power per measure. Financial incentives include energy efficiency incentive payments and energy management payments. Energy Project Manager Co-Funding is available in addition to the project incentives.

² Incentives for prescriptive measures are restricted to the amounts shown on the website.

³ The following applies to Custom Non-Lighting and Listed Measures where kWh savings is determined using site-specific inputs (not deemed) – To be eligible for incentives, there must be evidence of program influence on the project. Accelerated Replacement measures must have a preponderance of evidence showing program influence to be eligible for incentives.

⁴ All EEM Costs are subject to Pacific Power review and approval prior to making an Energy Efficiency Incentive Offer. All final EEM Costs are subject to Pacific Power review and approval prior to paying an Energy Efficiency Incentive per the terms of the Energy Efficiency Incentive Offer Letter or approved Application. Pacific Power review and approval of EEM Costs may require additional documentation from the Customer or Owner.

⁵ 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.

⁶ Project Cost and 1-Year Simple Payback Caps do not apply to New Construction and Major Renovation projects that are subject to state energy code.

⁷ Customers may aggregate accounts to achieve minimum requirements.

Incentive Tables

Below are the current incentive tables for Wattsmart Business in California.

Retrofit Lighting Incentive Table

Measure	Category	Eligibility Requirements		Incentive
Interior Lighting – deemed measures	T8 TLED Lamp – UL Type A (Accelerated Replacement) (see note 5)	LED must be listed on qualified equipment list and must be replacing a linear fluorescent lamp in an interior application or parking garage		\$4/lamp
	T8 TLED Lamp – UL Type B (Accelerated Replacement) (see note 5)	LED must be listed on qualified equipment list and must be replacing a linear fluorescent lamp in an interior application or parking garage		\$5/lamp
	T8 TLED Lamp – UL Type B (Normal Replacement) (see note 5)	LED must be listed on qualified equipment list and must be replacing a linear fluorescent lamp in an interior application or parking garage		\$1/lamp
	T8 TLED Lamp – UL Type C (Normal Replacement)	LED must be listed on qualified equipment list and must be replacing a linear fluorescent lamp in an interior application or parking garage	Fixture with 2 T8 TLED Type C Lamps	\$6/fixture
Fixture with 3 T8 TLED Type C Lamps			\$8/fixture	
Fixture with 4 T8 TLED Type C Lamps			\$10/fixture	
Interior Lighting – site specific measures	Custom	Not listed above		\$0.25/kWh annual energy savings
	Custom with Advanced Controls	Not listed above		\$0.30/kWh annual energy savings
Exterior Lighting - deemed measures	UL Type B LED Mogul Base Lamp (Normal Replacement)	LED must be listed on a qualified product list and be replacing a lamp in an outdoor area, roadway luminaire, or outdoor decorative luminaire	Replacing an HPS lamp < 100 W	\$4/lamp \$8/lamp \$18/lamp
			Replacing an HPS lamp ≥ 100 and < 250 W	
			Replacing an HPS lamp ≥ 250 W	
	UL Type B LED Mogul Base Lamp (Accelerated Replacement)	LED must be listed on a qualified product list and be replacing a lamp in an outdoor area, roadway luminaire, or outdoor decorative luminaire	Replacing an HPS or PSMH lamp < 100 W	\$10/lamp \$30/lamp \$50/lamp
			Replacing an HPS or PSMH lamp ≥ 100 and < 250 W	
			Replacing an HPS or PSMH lamp ≥ 250 W	
Exterior Lighting – site specific measures	Custom	Not listed above		\$0.15/kWh annual energy savings

Notes for retrofit lighting 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 80 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.
3. Qualified equipment lists referenced in the table are posted on the California energy efficiency program section of Pacific Power’s website.
4. 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.
5. UL Type A/B lamps may be eligible for UL Type A or Type B incentives when configured as the respective lamp type.
6. Product must meet the technical requirements listed on the current DesignLights Consortium (DLC) qualified product list (QPL) for its corresponding product category.
7. Listed incentives for LED Ambient Fixtures and Retrofit Kits were available through December 31, 2020. Effective January 1, 2021, these measures are eligible for the custom interior lighting incentive.

LPW = Lumens Per Watt

TLED = Tubular Light-Emitting Diode

UL = Underwriters Laboratories

HPS = High-pressure Sodium

PSMH = Pulse Start Metal Halide

New Construction/Major Renovation Lighting Incentive Table

Measure	Category	Eligibility Requirements	Incentive
Interior Lighting*	Lighting and Lighting Control	Custom	\$0.15/kWh annual energy savings

*Project Cost Caps of 80% and 1-Year Simple Payback Caps apply to New Construction and Major Renovation projects that are not subject to state energy code. The 1-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.

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

Motor Incentives Table

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement	Customer Incentive
Electronically Commutated Motors (Accelerated Replacement)	≤ 1/2 horsepower	Replacing SP evaporator fan motor in walk-in freezer/cooler	--	\$200
Variable-Speed Drives (HVAC fans) (Add-On Equipment)	≤ 100 horsepower	HVAC fans	See Note 2	\$120/horsepower
Green Motor Rewinds	≥ 15 and ≤ 5,000 hp	--	Must meet GMPG Standards	\$1/horsepower (See note 3)

Notes for motor incentives table:

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 VSD incentives. VSD must be applied to the existing HVAC supply or return air system. VSDs 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.

GMPG = Green Motors Practices Group

HVAC = Heating, Ventilation and Air Conditioning

SP = Shaded Pole

VSD = Variable Speed Drive

HVAC Equipment Incentive Table

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement	Customer Incentive
Packaged Terminal Air Conditioners (PTAC) (Normal Replacement)	≤ 7,000 Btu/hr	Single package	11.29 EER	\$100/ton
	> 7,000 Btu/hr and ≤ 15,000 Btu/hr		10.27 EER	
	> 15,000 Btu/hr and < 24,000 Btu/hr		9.25 EER	
Packaged Terminal Air Conditioners (PTAC) (New Construction)	≤ 7,000 Btu/hr		14.28 EER	
	> 7,000 Btu/hr and ≤ 15,000 Btu/hr		12.84 EER	
	> 15,000 Btu/hr and < 24,000 Btu/hr		11.4 EER	
Packaged Terminal Heat Pumps (PTHP) (Cooling and Heating Mode) (Normal Replacement)	≤ 7,000 Btu/hr	Single package	11.17 EER 3.26 COP	\$100/ton
	> 7,000 Btu/hr and ≤ 15,000 Btu/hr		10.15 EER 3.13 COP	
	> 15,000 Btu/hr and < 24,000 Btu/hr		9.13 EER 3.01 COP	
Packaged Terminal Heat Pumps (PTHP) (Cooling and Heating Mode) (New Construction)	≤ 7,000 Btu/hr		14.28 EER 4.01 COP	
	> 7,000 Btu/hr and ≤ 15,000 Btu/hr		12.84 EER 3.76 COP	
	> 15,000 Btu/hr and < 24,000 Btu/hr		11.4 EER 3.50 COP	
Heat Pump, Air Cooled, replacing electric resistance heating (Cooling and Heating Mode) (Retrofit Only) (see note 5)				
	<240,000 Btu/hr	Split system and single package	ENERGY STAR Qualified	\$300/ton

Notes for HVAC equipment incentive table

1. Equipment that meets or exceeds the efficiency requirements listed for the size category in the above table may qualify for the listed incentive. Equipment must meet all listed efficiency requirements to qualify for the listed incentives.
2. 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 and capacities are specified in terms of net cooling capacity at AHRI standard conditions as determined by AHRI Standard 210/240 for units <65,000 Btu/hr, AHRI Standard 340/360 for units ≥65,000 Btu/hr, and AHRI Standard 310/380 for PTAC and PTHP units.

5. Equipment must meet ENERGY STAR part load efficiency requirements (SEER/SEER2 or IEER). Equipment does not need to meet ENERGY STAR full load efficiency requirements (EER), as long as the part load efficiency requirement is also specified for the equipment in ENERGY STAR. If ENERGY STAR only lists full load efficiency requirements (EER), then equipment must meet this standard. Additionally, the equipment must meet or exceed state or federal full load efficiency standards, whichever is more stringent.

AHRI = Air-Conditioning, Heating, and Refrigeration Institute

EER = Energy Efficiency Ratio

HVAC = Heating, Ventilation and Air-Conditioning

IEER = Integrated Energy Efficiency Ratio

PTAC = Packaged Terminal Air Conditioner

PTHP = Packaged Terminal Heat Pump

SEER/SEER2 = Seasonal Energy Efficiency Ratio

Other HVAC Equipment and Controls Incentive Table

Equipment Type	Size Category	Sub-Category	Minimum Efficiency Requirement	Customer Incentive
Enhanced Ventilation Controls for RTUs - Heat Pump (Add-On Equipment)	All Sizes	Add VFD	VFD must be added to an existing packaged single-zone direct expansion (DX) HVAC unit with a functioning economizer and no existing VFD. The VFD must operate at two discrete speeds based on ventilation and cooling or heating demand. Additional efficiency measures must be added, as indicated.	\$90/ton
		Add VFD and ADEC		\$110/ton
		Add VFD and NEMA Premium Motor		\$120/ton
		Add VFD and PMM		\$130/ton
		Add VFD, ADEC, and CO2 Sensor		\$160/ton
		Add VFD, NEMA Premium Motor, ADEC, and CO2 Sensor		\$190/ton
		Add VFD PMM, ADEC, and CO2 Sensor		\$200/ton
Classroom HVAC Occupancy Sensor (Normal Replacement)	--	--	Equipment must have unoccupied setback temperature control for closed hours and when classroom is unoccupied	\$20/ton
Air-Cooled Screw Chiller, Path B (Normal Replacement or New Construction) (See Note 3)	< 150 tons	Tier 1	10.4 EER; 17.7 IPLV	\$25/ton
		Tier 2	10.4 EER; 19.0 IPLV	\$50/ton
	150 - 300 tons	Tier 1	10.4 EER; 18.0 IPLV	\$25/ton
		Tier 2	10.4 EER; 19.3 IPLV	\$50/ton

Notes for other HVAC equipment and controls incentive table

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. Enhanced Ventilation Controls – Heat Pump does not apply if the rooftop unit has a fully operational and/or non-snapdisc sensor and is adjusted to the appropriate changeover setpoint based on the number of thermostat stages available for cooling. This measure does not apply if the unoccupied supply fan operation is already set to “Auto” or intermittent. Measure is applicable for all nonresidential buildings served by unitary direct expansion (DX) and split systems that do not serve process or refrigeration loads.
3. Air-Cooled Screw Chillers must exceed the minimum efficiency requirements set forth by Title 24 Part 6 in both full load and integrated part load conditions under Path B, as laid out in the minimum efficiency requirements section of the table, in order to qualify for an incentive.
4. HVAC occupancy sensor measure is only eligible for installation in an educational relocatable classroom conditioned with a heat pump.

ADEC = Advanced Digital Economizer Control

EER = Energy Efficiency Ratio

HVAC = Heating, Ventilating and Air-Conditioning

IPLV = Integrated Part Load Value

NEMA = National Electrical Manufacturers Association

PMM = Permanent Magnet Motor

PTHP = Packaged Terminal Heat Pump

PTAC = Packaged Terminal Air Conditioner

RTU = Rooftop Unit

VFD = Variable Frequency Drive

Food Service Equipment Incentives Table

Equipment Type	Equipment Category	Minimum Efficiency Requirement	Customer Incentive
Undercounter Commercial Dishwasher (High Temperature models Only)	Tier 1	ENERGY STAR Qualified	\$300
	Tier 2		\$450
Electric Steam Cooker	All Sizes	ENERGY STAR Qualified	\$1,000
Electric Convection Oven	Half Size Electric	ENERGY STAR Qualified	\$700
	Full Size Electric		\$900
Electric Griddle	Single-sided	ENERGY STAR Qualified	\$300/linear ft
Electric Combination Oven	< 15 pans	Must meet idle energy rate, cooking energy efficiency, and production capacity as listed on program website.	\$2,000
	15-28 pans		\$2,200
	> 28 pans		\$3,500
Electric Deck Oven	All Sizes	Must meet idle energy rate and heavy load cooking efficiency as listed on program website.	\$3,000
Electric Fryer	All Sizes	ENERGY STAR Qualified	\$500
High Performance Conveyor Toaster	All Sizes	Must meet energy per sandwich requirement listed on the program website.	\$500
Ice Machines - Ice Maker Head (Air-Cooled Only)	Harvest Rate < 300 lbs./day	ENERGY STAR Qualified	\$150
	Harvest Rate 300 – 799 lbs./day		\$250
	Harvest Rate 800 – 1,499 lbs./day		\$400
	Harvest Rate ≥ 1,500 lbs./day		\$450
Ice Machines – Remote Condensing Unit (Air Cooled Only)	Harvest Rate < 988 lbs./day	ENERGY STAR Qualified	\$400
	Harvest Rate ≥ 988 lbs./day		\$450
Ice Machines – Self-Contained Unit (Air Cooled Only)	Harvest Rate < 110 lbs./day	ENERGY STAR Qualified	\$100
	Harvest Rate 110 – 199 lbs./day		\$150
	Harvest Rate ≥ 200 lbs./day		\$200

Ultra Low Temperature Freezer (See Note 5)	$24 \leq V \leq 29$	ENERGY STAR Qualified	\$1,200
Demand Controlled Kitchen Ventilation Exhaust Hood (New Construction) (See Note 2)	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.	\$2,000/hp
Commercial Hand-Wrap Machine	--	Measure must use either a mechanical or optical control system	\$300
Reach-In Refrigerator or Freezer	$0 < V < 15$	ENERGY STAR Qualified	\$25
	$15 \leq V < 30$		\$50
	$30 \leq V < 50$		\$75
	$50 \leq V$		\$100
Anti-Sweat Heater Controls (Add-On Equipment) (See Note 4)	Low-Temp (Freezing) Cases	Controls that reduce energy consumption of anti-sweat heaters based on sensing humidity.	\$50/linear foot (case length)
	Med-Temp (Refrigerated) Cases		\$50/linear foot (case length)

Notes for food service equipment incentive table

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. Demand controlled kitchen ventilation on exhaust hoods required by or used to comply with the applicable version of the energy code are not eligible for incentives.
3. All food service equipment measures are available in normal replacement or new construction applications except where measure application type is specified.
4. Anti-Sweat Heater Controls incentives are not eligible for multiplex systems majorly upgraded or installed after July 1, 2014. This measure cannot be used in conjunction with new refrigeration display case with doors or with special doors with low/no anti-sweat heat on low-temperature display cases.
5. Ultra Low Temperature Freezer measure is only eligible in the following existing building types: Education – University, Health/Medical – Hospital, Manufacturing – Biotech, and Manufacturing – Pharmaceuticals.
6. Used or rebuilt food service equipment is not eligible for an incentive.

ASTM = American Society for Testing and Materials

MDEC = Maximum Daily Energy Consumption

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

Appliance Incentives Table

Equipment Type	Equipment Category	Minimum Efficiency Requirement	Customer Incentive
High-Efficiency Clothes Washer (Normal Replacement or New Construction)	Installed in multifamily common area	ENERGY STAR commercial clothes washer	\$50
Heat Pump Water Heater (Normal Replacement or New Construction)	> 45 to ≤ 55 gallons	3.30 UEF	\$500

Notes for appliance incentive table

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.

UEF = Uniform Energy Factor

Irrigation Incentives – Measures 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. Incentive limited to two sprinklers per irrigated acre.	\$1 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.	\$1 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
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, the invoice must show the number of rebuild kits purchased and installed.	\$1 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 gaskets per irrigated acre.	\$2 each

**Irrigation Incentives – Measures for Pivots and Linear Water Distribution Systems
(Retrofit Only)**

Irrigation Measure	Replace	With	Limitations	Customer Incentive
Pivot and linear sprinkler package replacement, high pressure	Worn impact sprinkler	New impact sprinkler or rotator, including nozzle	Design flow shall not be increased	\$7 each
Pivot and linear sprinkler package replacement, MESA	Worn low pressure sprinkler and regulator	New low-pressure sprinkler, including nozzle, and regulator	Applicable to MESA-configured center pivots and linears. Design flow rate shall not be increased.	\$4 each
Pivot and linear sprinkler package replacement, LESA/LEPA/MDI	Worn low pressure sprinkler and regulator	New low-pressure sprinkler, including nozzle, and regulator	Applicable to LESA/LEPA/MDI-configured center pivots and linears. Design flow rate shall not be increased.	\$2 each
Pivot and linear upgrade from high pressure to MESA	Conversion of center pivot or linear move from high pressure (impact) sprinklers on top.	Conversion of center pivot or linear move to MESA configuration	Incentive is per drop. Design flow rate shall not be increased.	\$6 each
Pivot and linear upgrade from high pressure to LESA/LEPA/MDI	Conversion of center pivot or linear move from high pressure (impact) sprinklers on top.	Conversion of center pivot or linear move to LESA/LEPA/MDI configuration	Incentive is per drop. Design flow rate shall not be increased.	\$7 each
Pivot and linear upgrade from MESA to LESA/LEPA/MDI	Conversion of center pivot or linear move from MESA configuration	Conversion of center pivot or linear move to LESA/LEPA/MDI configuration	Incentive is per drop. Design flow rate shall not be increased.	\$5 each

Irrigation Incentives – Measures for Any Type of System (Retrofit or New Construction)

Irrigation Measure	Replace	With	Limitations	Customer Incentive
Booster Pump VFD, <=150 hp		Add variable frequency drive to existing or new irrigation pump (Add On Equipment or New Construction)	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. Pump must operate at least 1,000 hours/year and must discharge into pressurized irrigation system (i.e. not flood).	\$37/hp

Notes for irrigation incentive tables:

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.

LESA/LEPA/MDI = Low-Elevation Spray Application/ Low Energy Precision Application/ Mobile Drip Irrigation

MESA = mid-elevation spray application

VFD = Variable Frequency Drive

Farm and Dairy Equipment Incentives

Equipment Type	Equipment Category	Minimum Efficiency Requirements	Customer Incentive
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
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
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

Notes for farm and dairy incentives table

1. Equipment that meets or exceeds the efficiency requirements above may qualify for the listed incentive.
2. Incentives are capped at 80 percent of Energy Efficiency Project Costs and incentives will not be available to reduce Energy Efficiency Project simple payback below one year. Energy savings and Energy Efficiency Project Costs are subject to Pacific Power approval.
3. 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

VFD = Variable Frequency Drive

cfm = cubic feet per minute

W = Watt

Compressed Air Incentives Table

Equipment Category	Replace	With	Limitations	Customer Incentive
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	1. Total compressor capacity in upgraded system is ≤75 hp, not counting backup compressor. 2. Compressor must adjust speed as primary means of capacity control.	\$0.15/kWh annual energy savings

Notes for compressed air incentive table

1. Equipment that meets or exceeds the efficiency requirements above may qualify for the listed incentive.
2. Incentives are capped at 80 percent of Energy Efficiency Project Costs, and incentives will not be available to reduce Energy Efficiency Project simple payback below one year. Energy savings and Energy Efficiency Project Costs are subject to Pacific Power approval.

hp = horsepower

VFD = variable frequency drive

Incentives for Wastewater and Other Refrigeration Energy Efficiency Measures

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 other energy efficiency measures incentives table

1. Equipment that meets or exceeds the efficiency requirements above may qualify for the listed incentive.
2. Incentives are capped at 80 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.

Enhanced Incentives for Small Businesses – Lighting (Retrofit only)

Customer Eligibility Requirements	Equipment Eligibility Requirement		Customer Incentive
T8 TLED Lamp – UL Type A (Accelerated Replacement) (see note 3)	LED must be listed on qualified equipment list and must be replacing a linear fluorescent lamp in an interior application or parking garage		\$6/lamp
T8 TLED Lamp – UL Type B (Accelerated Replacement) (see note 3)	LED must be listed on qualified equipment list and must be replacing a linear fluorescent lamp in an interior application or parking garage		\$7.50/lamp
T8 TLED Lamp – UL Type B (Normal Replacement) (see note 3)	LED must be listed on qualified equipment list and must be replacing a linear fluorescent lamp in an interior application or parking garage		\$1.50/lamp
T8 TLED Lamp – UL Type C (Normal Replacement)	LED must be listed on qualified equipment list and must be replacing a linear fluorescent lamp in an interior application or parking garage	Fixture with 2 T8 TLED Type C Lamps	\$7/fixture
		Fixture with 3 T8 TLED Type C Lamps	\$10/fixture
		Fixture with 4 T8 TLED Type C Lamps	\$13/fixture
Interior Lighting – site specific measures	Custom (not listed above)		\$0.35/kWh annual energy savings

Notes for other enhanced incentives for small business – lighting (retrofit only) table

1. Equipment that meets or exceeds the efficiency requirements above may qualify for the listed incentive.
2. Incentives are capped at 90 percent of Energy Efficiency Project Costs. Energy savings and Energy Efficiency Project Costs are subject to Pacific Power approval.
3. UL Type A/B lamps may be eligible for UT Type A or Type B incentives when configured as the respective lamp type.

Wattsmart Business - California - Definitions

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

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

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

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

Energy Efficiency Measure (EEM) Cost:

- New Construction/Major Renovation: EEM Cost is the total installed cost of energy efficiency equipment or system minus the cost of the code compliance/common practice equipment or system.
- Retrofit: EEM Cost is the total installed cost of the energy efficiency equipment or modification.

In the case of New Construction, Major Renovations, and Retrofits, EEM Costs shall mean the Owner or Customer's reasonable costs incurred (net of any discounts, rebates or incentives other than Energy Efficiency Incentives from Pacific Power, or other consideration that reduces the final actual EEM Cost incurred by the Owner or Customer) to purchase and install EEMs at the Owner's or Customer's facility. If the Owner or Customer installs the EEM then the cost of installation shall be equal to the Owner's or Customer's actual labor costs for such installation.

Energy Efficiency Project: One or more EEM(s) at a Non-residential Facility⁸with similar one year payback limitations covered by one Energy Efficiency Incentive Application.

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

Energy Management Offer Letter: An offer made by Pacific Power and acknowledged by Owner or Customer and Pacific Power providing for Pacific Power to furnish Energy Management Incentives for an Energy Management Project.

Energy Management Incentive: Payments of money made by Pacific Power to Owner or Customer for implementation of an Energy Management Measure pursuant to an executed Energy Management Offer Letter.

⁸ Measures at multiple Non-residential Facilities may be included in one Incentive Application or Offer Letter for convenience; however, project incentive caps (if any) are applied per individual Non-residential Facility.

Energy Management Measure (EMM): an operational improvement which, when implemented in an eligible facility, results in electric savings compared to current operations as determined by Pacific Power.

Energy Management Project: One or more EMM(s) at a Non-residential Facility covered by one Energy Management Offer Letter.

Energy Project Manager: an employee or direct contractor of the Customer who will manage electrical energy efficiency projects that deliver savings toward the Customer/Owner's energy savings goal.

Energy Project Manager Co-funding: funding towards the Energy Project Manager agreed upon full value salary that is solely attributable to electrical energy efficiency work.

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

Measure Application Types (MAT): The California Public Utilities Commission recognizes the following standard categories of measure application types used to determine baseline, cost, and energy savings calculations:

New Construction (NC): The New Construction (NC) MAT is used where equipment is installed in either a new area or an area that has been subject to major renovation, to expand the capacity of existing systems, or to serve a new load. The NC MAT is used where there is no reference operation for existing conditions, such as with new construction, expansions, added load, a change in the function of the space (e.g. office to laboratory), or a substantial change (e.g. ~30% or more) in design occupancy. For NC measures, the baseline is the Standard Practice, or Code baseline in place at the time the project commenced.

Normal Replacement, including Replace and Burnout (NR): The Normal Replacement (NR) MAT is used where existing equipment (including Add-On Equipment) has either failed, no longer meets current or anticipated needs, or is planned to be replaced for reasons unrelated to the program. For NR measures, the baseline is the Standard Practice, or Code baseline in place at the time the project commenced. The NR MAT may be applied to any measure or program, with certain exceptions, and without a burden of proof.

Accelerated Replacement (AR): The Accelerated Replacement (AR) MAT is used for the replacement of existing equipment that could and would remain operational without program intervention. It is used in direct contrast to the NR MAT, which is used when existing equipment either could not or would not remain operational. Early retirement (non-capacity expansion) measures and replacement of "operating equipment that when broken, non-functional, or unable to provide the intended service is typically repaired" can be classified as AR. New construction and capacity expansion cannot be classified as AR.

AR measures are required to demonstrate both (1) the continued viability of the existing equipment and (2) the program influence on the decision to retire the system early. Evidence that the equipment

could have remained operational only addresses viability; evidence indicating that the equipment **would** have remained in operation addresses both criteria. Assessment of evidence for and against both viability and influence are referred to as a “preponderance of evidence (POE) based assessment”. The POE may be assessed at the measure, project, or program level. The POE determination is based on the most convincing evidence and its probable truth or accuracy, not on the amount of evidence presented.

Add-On Equipment (AOE): The Add-On Equipment MAT is used for installations of new equipment onto pre-existing equipment, improving the nominal efficiency of the host system. The existing host system must be operational without the AOE equipment, continue to operate as the primary service equipment for the existing load, and be able to fully meet the existing load at all times without the add-on component. The add-on equipment must not be able to operate on its own. The actual energy reduction occurs at the host equipment, not at the add-on component, although any add-on component energy usage must be subtracted from the host savings. AOE may use a Code, Standard Practice, or Existing Conditions baseline. The replacement of broken or poorly performing add-on equipment is considered through the NR MAT, not the AOE MAT.

Building Weatherization, shell and related components (BW): The Building Weatherization (BW) MAT is used for non-mechanical building efficiency improvements such as windows, insulation, and air sealing. BW measures use an existing condition baseline; however, the use of a Code or Standard Practice baseline is permitted.

Behavioral (BRO-Bhv), Retro commissioning (BRO-RCx), Operational (BRO-Op): The Behavioral, Retro commissioning, and Operational (BRO) MAT is used for measures that either restore or improve energy efficiency and that can be reasonably expected to produce multi-year savings. By definition, BRO measures result in performance that does not exceed the nominal (rated or original) efficiency of the pre-existing condition. BRO measures may use a Code, Standard Practice, or Existing Conditions baseline.

Savings from correcting deferred maintenance, performance restoration, and operational characteristics are considered within the BRO category. In the case of either normal or accelerated equipment replacement, separate claims should be made for energy savings related to the equipment replacement and energy savings related to operational factors and updating maintenance.

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

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

Non-residential Facility: A Customer site that is served by Pacific Power and meets the applicability requirements listed above.

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

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

Exhibit B – Lighting Project Incentive Analysis

The analysis described below supports the following California Wattsmart Business program changes for 2024:

Retrofit Lighting, Exhibit A, page 4-5		
Measure	Measure	Measure
Interior Lighting – Custom	Increase incentive by approximately 25%	Increasing the incentive is expected to increase participation.

Data included in the analysis

The analysis includes 112 California Wattsmart Business retrofit lighting projects completed between January 1, 2021, and December 31, 2023. Projects that received enhanced small business lighting incentives are included in this analysis.

Sharp drop in participation in 2023

The majority of Wattsmart Business lighting vendors for the program in California are located in southern Oregon, and they continue to focus on the generous program offers that are obtainable through Energy Trust of Oregon. In many circumstances, Oregon customers are paying as little as one dollar per new LED fixture purchased including High Bays, interior fixtures, and exterior fixtures. Some vendors stated that it is not worth their time to travel into Pacific Power’s service area in California and continued to provide feedback that higher program incentives, coupled with more eligible measures, would more compel them to resume work in the area.

The program outreach team continues the efforts to encourage in-region electrical vendors to participate in the Wattsmart Business program and have performed lighting audits and prepared lighting calculator estimates. However, unappealing rate of return/simple paybacks deter customers from moving forward with efficiency upgrades. In addition, electrical vendors in Pacific Power’s service area in California have stated that service and emergency-type work yield a higher margin than pursuing lighting retrofit projects. Vendors that have expressed an interest in participating in Pacific Power’s service area in California were also asked to share inflation impacts specific to lighting products. Feedback provided from distributor (Platt Electric Supply) and installation contractor (LED Concepts) is that they have seen an increase in lighting and electrical components ranging from 10 to 20 percent over the last two years due to shipping and transportation costs. The incentive increase could help offset the impacts of inflation.

Year-over-Year Summary (Typical)			
	2021	2022	2023
Total project count	37	65	2
Total kWh savings	694,078	999,748	90,493

Avg cost \$/kWh	\$0.38	\$0.41	\$0.18
Avg inc \$/kWh	\$0.20	\$0.22	\$0.10

Year-over-Year Summary (Small Business)			
	2021	2022 ¹	2023
Total project count	8	0	0
Total kWh savings	63,132	0	0
Avg cost \$/kWh	0.56	n/a	n/a
Avg inc \$/kWh	\$0.34	n/a	n/a

Vendor Feedback:

When asked “what would entice you to participate in the Wattsmart Business program?”, electrical vendors provide three recurring responses:

1. Bring back incentives for high bay fixtures and exterior fixtures.
2. Increase program incentives.
3. Vendor incentives may be helpful.

Recommendation:

Increase the current lighting incentives, expand the eligible measures, and offer vendor incentives.

Customers often make decisions regarding elective lighting retrofit projects based on payback after incentives. Current typical and small business lighting incentives usually cover 50 and 60 percent of total project cost respectively. In 2023, the program encountered 12 potential lighting projects that ultimately went unexecuted likely due to cost and payback time. The proposed incentive increase, coupled with new, higher savings lighting measures being added to the program, is expected make projects more cost-effective for customers by bringing down simple payback by 10 percent from 3.44 years to 3.1 years.

2023 Unexecuted Proposed Projects (Typical and Small Business)	
Total projects	12
Avg Simple Payback (SPB)	3.44 years
Avg cost \$/kWh	\$1.06

¹ The small business offer was removed from the program effective 9/24/2020 and re-introduced effective 6/15/2023.

Review of other utility offers:

A direct comparison between the Pacific Power offerings and those of other utilities is difficult due to varying differences in incentive structure and project eligibility requirements. While incentives among different California utilities are similar, incentives offered by Energy Trust of Oregon (ETO) are much higher and for more eligible lighting technologies.

Lighting Measure	Pacific Power Wattsmart Business - CA Incentives (Current)	Pacific Power Wattsmart Business - CA Incentives (Proposed for 2024)	SDGE	SCE	Energy Trust of Oregon
T8 TLED Lamp UL Type A and B (AR, NR)	\$1-\$5 per lamp	No change		\$2-\$5 per lamp	\$3-\$12 per lamp
T8 TLED Lamp UL Type C (NR)	\$6-\$10 per lamp				
High/low-bay LED	N/A	N/A			\$120-\$355 per fixture
Controls-only upgrade to Advanced Controls	\$0.16/kWh	No change			\$30-\$60 per sensor
Interior Lighting — Custom (fixture, kits, etc)	\$0.20/kWh	\$0.25/kWh			\$30-\$55 per fixture
Custom Interior Lighting w/ Advanced Controls	\$0.20/kWh	\$0.30/kWh			\$60-\$100 per fixture
UL Type B LED Mogul Base Lamp (NR)	N/A	\$4-\$18 per lamp	\$2-\$288 per Lamp		\$30-\$60 per lamp
UL Type B LED Mogul Base Lamp (AR)		\$20-\$50 per lamp			
Exterior LED Kit/Fixture	N/A	N/A			\$20-\$425 per kit/fixture

Street lighting	N/A	N/A			\$45-\$350 per fixture
Small business lighting	TLED: \$6/lamp - \$13/fixture Custom: \$0.35/kWh	No change			Free lighting upgrades of lamps, fixtures, and controls

Exhibit C – Wattsmart Business Electronic Technical Reference Manual (eTRM) Alignment Review

The tables below include each listed Wattsmart Business measure in the program as of the 2024 program changes, whether it is a deemed measure, the relevant measure in the eTRM statewide workpapers, and information about alignment of the Wattsmart Business measure and the eTRM measure as of September 1, 2023.

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
Interior T8 TLED Lamp – UL Type A	✓		✓	Active		Yes		SWLG009-04 LED, Tube
Interior T8 TLED Lamp – UL Type B	✓		✓	Active		Yes		SWLG018-03 Type B and C LED Tube
Interior T8 TLED Lamp – UL Type C	✓		✓	Active		Yes		SWLG018-03 Type B and C LED Tube
Custom Interior Lighting		✓		1		N/A	Savings are calculated on a site-specific basis (using a calculator tool) per CPUC guidelines for the appropriate measure application type.	
Custom Interior Lighting with Advanced Controls		✓		1		N/A	Savings are calculated on a site-specific basis (using a calculator tool) per CPUC guidelines for the appropriate measure application type.	

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
UL Type B LED Mogul base lamp	✓		✓	Active		Yes		SWLG020-01 UL type B LED Mogul Base Lamp HID Retrofits for Outdoor Area/Pole and Decorative Fixtures
Custom Exterior Lighting		✓		1		N/A	Savings are calculated on a site-specific basis (using a calculator tool) per CPUC guidelines for the appropriate measure application type.	

Notes:

1. Measure has not been defined in eTRM statewide workpapers and has not been expired in eTRM.

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
Interior Lighting and Lighting Control		✓		1		N/A	New construction/ major renovation lighting savings are calculated on a site-specific basis (using a calculator tool) using code or industry standard practice as the baseline.	

Notes:

1. Measure has not been defined in eTRM statewide workpapers and has not been expired in eTRM.

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
Electronically Commutated Motors	✓		✓	Active		Yes		SWCR004-02 EC Motor Retrofit for a Walk-In Cooler or Freezer
Variable-Speed Drives (HVAC fans)	✓		✓	Active		Yes		SWHC018-03 Variable Speed Drive for HVAC Fan Controls
Green Motor Rewinds	✓			1		N/A	The program aligns with Regional Technical Forum (RTF) deemed savings values.	Workbook: Industrial and Agricultural Green Motor Rewind v5.2 https://rtf.nwcouncil.org/measure/green-motor-rewind

1. Notes: Measure has not been defined in eTRM statewide workpapers and has not been expired in eTRM.

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
Packaged Terminal Air Conditioners (PTAC)	✓		✓	Active		Yes		SWHC027-03 Package Terminal Air Conditioner or Heat Pump, Under 24 kBtuh
Packaged Terminal Heat Pumps (PTHP)	✓		✓	Active		Yes		SWHC027-03 Package Terminal Air Conditioner or Heat Pump, Under 24 kBtuh
Heat Pumps, Air-Cooled, replacing electric resistance heating (Retrofit only)		✓		1		N/A	Program savings are calculated using site specific metrics including installed equipment efficiencies and size.	

1. Notes: Measure has not been defined in eTRM statewide workpapers and has not been expired in eTRM.

Other HVAC Equipment and Controls Incentives

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
Enhanced Ventilation Controls for RTUs – Heat Pump	✓		✓	Active		Yes		SWHC023-03 Enhanced Ventilation for Packaged HVAC
Classroom HVAC Occupancy Sensor	✓		✓	Active		Yes		SWHC012-02 HVAC Occupancy Sensor, Classroom
Air-Cooled Screw Chiller, Path B	✓		✓	Active		Yes		SWHC052-02 Air-Cooled Chiller, Path B

Food Service Incentives

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
Undercounter Commercial Dishwasher	✓		✓	Active		Yes		SWFS018-04 Undercounter Dishwasher, Commercial
Electric Steam Cooker	✓		✓	Active		Yes		SWFS005-03 Commercial Steam Cooker
Electric Convection Oven	✓		✓	Active		Yes		SWFS001-03 Convection Oven, Commercial
Electric Griddle	✓		✓	Active		Yes		SWFS004-01 Commercial Griddle – Electric & Gas
Electric Combination Oven	✓		✓	Active		Yes		SWFS003-03 Combination Oven, Commercial
Electric Deck Oven	✓		✓	Active		Yes		SWFS009-02 Commercial Deck Oven - Electric
Electric Fryer	✓		✓	Active		Yes		SWFS011-05 Fryer, Commercial
High Performance Conveyor Toaster	✓		✓	Active		Yes		SWFS023-02 Conveyor Toaster, Commercial
Ice Machines (Air-Cooled Only)	✓		✓	Active		Yes		SWFS006-02 Commercial Ice Machine
Ultra Low Temperature Freezer	✓		✓	Active		Yes		SWCR017-02 Ultra Low Temperature Freezer

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
Demand Controlled Kitchen Ventilation Exhaust Hood	✓		✓	Active		Yes		SWFS012-01 Exhaust Hood Demand Controlled Ventilation, Commercial
Commercial Hand-Wrap Machine	✓		✓	Active		Yes		SWFS010-02 Commercial Hand-Wrap Machine, Electric
Reach-In Refrigerator or Freezer	✓		✓	Active		Yes		SWCR018-03 Reach-In Refrigerator or Freezer, Commercial
Anti-Sweat Heater Controls	✓		✓	Active		Yes		SWCR001-03 Anti-Sweat Heater Controls

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
High-Efficiency Clothes Washer (Normal Replacement or New Construction)	✓		✓	Active		Yes		SWAP004-03 Clothes Washer Residential
Heat Pump Water Heater	✓		✓	Active		Yes		SWWH031-02 Heat Pump Water Heater, Commercial

Irrigation Incentives

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
New rotating sprinkler replacing worn or leaking impact or rotating sprinkler	✓			Note 1		NA	Measure aligns with RTF deemed UES value for Western Oregon and Washington. (From AgIrrigationHardwareMaintenance_v6_1.xlsx July 18, 2023). Note: RTF approved version 6.0 of the Agricultural Irrigation Hardware Maintenance measures April 18, 2022, and then approved version 6.1 July 18,2023, which leaves the measures unchanged, but updates cost effectiveness to use Procost version 5.08.	https://rtf.nwco.uncil.org/measure/irrigation-hardware-maintenance
New impact sprinkler replacing worn or leaking impact sprinkler	✓			Note 1		NA	Measure aligns with RTF deemed UES value for Western Oregon and Washington. (From AgIrrigationHardwareMaintenance_v6_1.xlsx July 18, 2023). Note: RTF approved version 6.0 of the Agricultural Irrigation Hardware Maintenance measures April 18, 2022, and then approved version 6.1 July 18,2023, which leaves the measures unchanged, but updates cost effectiveness to use Procost version 5.08.	https://rtf.nwco.uncil.org/measure/irrigation-hardware-maintenance

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
New nozzle replacing worn nozzle of same design flow or less on existing sprinkler	✓			Note 1		NA	Measure aligns with RTF deemed UES value for Western Oregon and Washington. (From AgIrrigationHardwareMaintenance_v6_1.xlsx July 18, 2023). Note: RTF approved version 6.0 of the Agricultural Irrigation Hardware Maintenance measures April 18, 2022, and then approved version 6.1 July 18,2023, which leaves the measures unchanged, but updates cost effectiveness to use Procost version 5.08.	https://rtf.nwco.uncil.org/measure/irrigation-hardware-maintenance
New or rebuilt wheel line leveler replacing leaking or malfunctioning leveler	✓			Note 1		NA	Measure aligns with RTF deemed UES value for Western Oregon and Washington. (From AgIrrigationHardwareMaintenance_v6_1.xlsx July 18, 2023). Note: RTF approved version 6.0 of the Agricultural Irrigation Hardware Maintenance measures April 18, 2022, and then approved version 6.1 July 18,2023, which leaves the measures unchanged, but updates cost effectiveness to use Procost version 5.08.	https://rtf.nwco.uncil.org/measure/irrigation-hardware-maintenance

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
New gasket replacing leaking gasket, including mainline valve or section gasket, seal, or riser cap (dome disc)	✓			Note 1		NA	Measure aligns with RTF deemed UES value for Western Oregon and Washington. (From AgIrrigationHardwareMaintenance_v6_1.xlsx July 18, 2023). Note: RTF approved version 6.0 of the Agricultural Irrigation Hardware Maintenance measures April 18, 2022, and then approved version 6.1 July 18,2023, which leaves the measures unchanged, but updates cost effectiveness to use Procost version 5.08.	https://rtf.nwco.uncil.org/measure/irrigation-hardware-maintenance
New drain replacing leaking drain	✓			Note 1		NA	Measure aligns with RTF deemed UES value for Western Oregon and Washington. (From AgIrrigationHardwareMaintenance_v6_1.xlsx July 18, 2023). Note: RTF approved version 6.0 of the Agricultural Irrigation Hardware Maintenance measures April 18, 2022, and then approved version 6.1 July 18,2023, which leaves the measures unchanged, but updates cost effectiveness to use Procost version 5.08.	https://rtf.nwco.uncil.org/measure/irrigation-hardware-maintenance

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
Pivot and linear sprinkler package replacement, high pressure	✓			Note 1		NA	Measure aligns with RTF deemed UES value for Western Oregon and Washington. (From AgIrrigationHardwareUpgrades_v2_3. xlsx July 17, 2023) Note: Irrigation Hardware Upgrades version 2.2, adopted May 26, 2022, was updated July 17, 2023, to version 2.3, which leaves the measures unchanged, but updates cost effectiveness to use Procost version 5.08.	https://rtf.nwco.uncil.org/measure/irrigation-hardware-upgrades
Pivot and linear sprinkler package replacement, MESA	✓			Note 1		NA	Measure aligns with RTF deemed UES value for Western Oregon and Washington. (From AgIrrigationHardwareUpgrades_v2_3. xlsx July 17, 2023) Note: Irrigation Hardware Upgrades version 2.2, adopted May 26, 2022, was updated July 17, 2023, to version 2.3, which leaves the measures unchanged, but updates cost effectiveness to use Procost version 5.08.	https://rtf.nwco.uncil.org/measure/irrigation-hardware-upgrades

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
Pivot and linear sprinkler package replacement, LESA/LEPA/MDI	✓			Note 1		NA	Measure aligns with RTF deemed UES value for Western Oregon and Washington. (From AgIrrigationHardwareUpgrades_v2_3. xlsx July 17, 2023) Note: Irrigation Hardware Upgrades version 2.2, adopted May 26, 2022, was updated July 17, 2023, to version 2.3, which leaves the measures unchanged, but updates cost effectiveness to use Procost version 5.08.	https://rtf.nwco.uncil.org/measure/irrigation-hardware-upgrades
Pivot and linear upgrade from high pressure to MESA	✓			Note 1		NA	Measure aligns with RTF deemed UES value for Western Oregon and Washington. (From AgIrrigationHardwareUpgrades_v2_3. xlsx July 17, 2023) Note: Irrigation Hardware Upgrades version 2.2, adopted May 26, 2022, was updated July 17, 2023, to version 2.3, which leaves the measures unchanged, but updates cost effectiveness to use Procost version 5.08.	https://rtf.nwco.uncil.org/measure/irrigation-hardware-upgrades

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
Pivot and linear upgrade from high pressure to LESA/LEPA/MDI	✓			Note 1		NA	Measure aligns with RTF deemed UES value for Western Oregon and Washington. (From AgIrrigationHardwareUpgrades_v2_3. xlsx July 17, 2023) Note: Irrigation Hardware Upgrades version 2.2, adopted May 26, 2022, was updated July 17, 2023, to version 2.3, which leaves the measures unchanged, but updates cost effectiveness to use Procost version 5.08.	https://rtf.nwco.uncil.org/measure/irrigation-hardware-upgrades
Pivot and linear upgrade from MESA to LESA/LEPA/MDI	✓			Note 1		NA	Measure aligns with RTF deemed UES value for Western Oregon and Washington. (From AgIrrigationHardwareUpgrades_v2_3. xlsx July 17, 2023) Note: Irrigation Hardware Upgrades version 2.2, adopted May 26, 2022, was updated July 17, 2023, to version 2.3, which leaves the measures unchanged, but updates cost effectiveness to use Procost version 5.08.	https://rtf.nwco.uncil.org/measure/irrigation-hardware-upgrades
Booster Pump VFD <=150 hp	✓		✓	Active		Yes		SWWP002-01

Notes:

1. Measure has not been defined in eTRM statewide workpapers and has not been expired in eTRM or DEER.

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
Heat recovery		✓		Note 1		NA	Savings calculation is based on site-specific inputs	
Milk pre-coolers (Retrofit only)		✓		Note 1		NA	Savings calculation is based on site-specific inputs	
Variable frequency drive for dairy vacuum pumps (retrofit only)		✓		Note 1		NA	Savings calculation is based on site-specific inputs	

Notes:

1. Measure has not been defined in eTRM statewide workpapers and has not been expired in eTRM or DEER.

Compressed Air Incentives

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
VFD controlled compressor		✓		Note 1		NA	Savings calculation is based on site-specific inputs	

Notes:

1. Measure has not been defined in eTRM statewide workpapers and has not been expired in eTRM or DEER. (There is a statewide workpaper for adding a VFD to an existing compressor up to 25hp. The Pacific Power measure is for a new compressor designed for VFD operation and equipped with the VFD.)

Wastewater and Other Refrigeration Incentives

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
Adaptive refrigeration controller		✓		Note 1		NA	Savings calculation is based on site-specific inputs	
Fast-acting door		✓		Note 1		NA	Savings calculation is based on site-specific inputs	
Wastewater – low power mixer		✓		Note 1		NA	Savings calculation is based on site-specific inputs	

Notes:

1. Measure has not been defined in eTRM statewide workpapers and has not been expired in eTRM or DEER.

Enhanced Incentives for Small Business - Lighting (Retrofit) Table

Wattsmart Business Measure	Wattsmart Business Measure Type		eTRM Measure Information			Alignment Review		
	Deemed	Other	Deemed	Status	Expiration Date	Aligned with eTRM Measure	Explanation of Variance	Source
T8 TLED Lamp – UL Type A (Accelerated Replacement)	✓		✓	Active		Yes		SWLG009-04 LED, Tube
T8 TLED Lamp – UL Type B (Accelerated Replacement)	✓		✓	Active		Yes		SWLG018-03 Type B and C LED Tube
T8 TLED Lamp – UL Type B (Normal Replacement)	✓		✓	Active		Yes		SWLG018-03 Type B and C LED Tube
T8 TLED Lamp – UL Type C (Normal Replacement)	✓		✓	Active		Yes		SWLG018-03 Type B and C LED Tube
Interior Lighting – site-specific measures		✓		1		N/A	Savings are calculated on a site-specific basis (using a calculator tool) per CPUC custom project guidelines for the appropriate measure application type.	

1. Notes: Measure has not been defined in eTRM statewide workpapers and has not been expired in eTRM.

Attachment C
2024 Cost Effectiveness

**PacifiCorp Cost-effectiveness Summary of 2024 Program Changes
Wattsmart Business Cost-effectiveness with Portfolio Costs Included**
Resource Acquisition Program (Wattsmart Business)

This document summarizes the modified Biennial Budget Advice Letter (BBAL) cost-effectiveness modeling for California. These modifications represent the program changes described in PacifiCorp (U 901-E) Advice Letter No. 742-E; each scenario is analyzed using modeled assumptions provided by PacifiCorp. These scenarios utilize the following assumptions:

- **Scenarios:** Ran cost-effectiveness for program year 2024.
- **Avoided Costs:** PacifiCorp’s analysis uses the avoided costs from the BBAL cost-effectiveness model for Advice Letter 697-E submitted for PacifiCorp’s Energy Efficiency Portfolio in Program Years 2023-2024. The *CPUC Avoided Costs* are applied against California and sector specific end-use load shapes.
- **Energy Rates:** Utilized the rates provided for PY2020 and applied an escalation of 2.16% to arrive at estimated energy rates for PY2024.
- **Line Loss Factors:** Sector specific line loss factors utilized throughout the analysis.

This memo will begin by addressing the inputs used in the analysis of the California BBAL. The cost-effectiveness inputs are as follows:

Table 1 - Utility Inputs

Parameter	PY2024
Discount Rate	6.88%
Commercial Line Loss	8.63%
Industrial Line Loss	8.53%
Irrigation Line Loss	8.78%
Commercial Energy Rate (\$/kWh) ¹	\$0.1476
Industrial Energy Rate (\$/kWh) ¹	\$0.1119
Irrigation Energy Rate (\$/kWh) ¹	\$0.1402
Energy-to-Capacity Conversion Factor	0.000734699
Inflation Rate	2.16%

¹ Future rates determined using a 2.16% annual escalator.

Table 2 –Wattsmart Business Program – Portfolio Level Costs

Expense	PY2024
Portfolio - Administrative Costs	\$16,743
Portfolio - Direct Implementation - non-incentives	\$17,668
Portfolio - IOUs administered marketing, education, and outreach	\$0
Portfolio - Program Evaluation	\$42,816
Total Costs	\$77,227

Table 3 –Program Costs for the Wattsmart Business Program Without Portfolio Level Costs Included

Program	Administrative Costs	Direct Implementation - non-incentives	IOUs administered marketing, education, and outreach	Program Evaluation	Incentives	Total Utility Costs	Gross Customer Costs
Wattsmart Business	\$26,000	\$340,207	\$18,674	\$0	\$304,143	\$689,024	\$492,784

Table 4 – Program Savings for the Wattsmart Business Program

Program	Gross kWh Savings	Realization Rate	Adjusted Gross kWh Savings	Net to Gross Ratio	Net kWh Savings	Measure Life
Wattsmart Business	1,221,193	97%	1,188,279	65%	774,447	9

Table 5 - Benefit/Cost Ratios for the Wattsmart Business Program with Portfolio Costs

Program	PTRC	TRC	UCT	RIM	PCT
Wattsmart Business	0.97	0.88	0.94	0.43	3.19

Table 6 provides cost-effectiveness results for the overall Wattsmart Business Program without Portfolio Level Costs included.

Program	PTRC	TRC	UCT	RIM	PCT
Wattsmart Business	1.07	0.97	1.05	0.45	3.19

Table 7 provides cost-effectiveness results for the overall Wattsmart Business Program with Portfolio Level Costs.

Table 7 – Wattsmart Business Program Level Cost-Effectiveness Results with Portfolio Costs - PY2024

Cost-Effectiveness Test	Levelized \$/kWh	Levelized \$/kW	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	\$0.1340	\$182.40	\$804,488	\$778,848	-\$25,641	0.97
Total Resource Cost Test (TRC) No Adder	\$0.1340	\$182.40	\$804,488	\$708,043	-\$96,445	0.88
Program Administrator Cost (PAC)	\$0.1251	\$170.25	\$750,919	\$708,043	-\$42,876	0.94
Rate Impact Test (RIM)			\$1,642,880	\$708,043	-\$934,837	0.43
Participant Cost Test (PCT)			\$492,784	\$1,572,179	\$1,079,394	3.19
Total System Benefits						\$705,973
Lifecycle Revenue Impacts (\$/kWh)						\$0.0000097123
Discounted Participant Payback (years)						1.78

Table 7 provides cost-effectiveness results for the measure categories for the Wattsmart Business Program.

Table 8 – WSB Program Measure Category Level Cost-Effectiveness Results - PY2024

Delivery Channel	Measure Category	P-TRC Benefits (\$)	P-TRC Costs (\$)	P-TRC Test	TRC Benefits (\$)	TRC Costs (\$)	TRC Test	Utility PV Benefits (\$)	Utility PV Costs (\$)	Utility Cost Test	Ratepayer PV Benefits (\$)	Ratepayer PV Costs (\$)	RIM Test	Participant PV Benefits (\$)	Participant PV Cost (\$)	PCT Test
ascade Energy - Trade ally/project facilitation	Compressed air	\$7,511	\$7,462	1.01	\$6,828	\$7,462	0.92	\$6,828	\$6,696	1.02	\$6,828	\$13,561	0.50	\$13,505	\$4,716	2.86
ascade Energy - Trade ally/project facilitation	Compressed air	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
ascade Energy - Trade ally/project facilitation	Farm and Dairy	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
ascade Energy - Trade ally/project facilitation	Farm and Dairy	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
ascade Energy - Trade ally/project facilitation	Industrial - Energy Management	\$2,557	\$5,934	0.43	\$2,325	\$5,934	0.39	\$2,325	\$6,018	0.39	\$2,325	\$8,411	0.28	\$4,348	\$461	9.44
ascade Energy - Trade ally/project facilitation	Industrial - Energy Management	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
ascade Energy - Trade ally/project facilitation	Irrigation - Energy Management	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
ascade Energy - Trade ally/project facilitation	Irrigation - irrigation systems	\$76,838	\$100,942	0.76	\$69,853	\$100,942	0.69	\$69,853	\$71,492	0.98	\$69,853	\$150,655	0.46	\$161,624	\$91,584	1.76
ascade Energy - Trade ally/project facilitation	Irrigation - water distribution equipment	\$8,067	\$11,319	0.71	\$7,333	\$11,319	0.65	\$7,333	\$7,151	1.03	\$7,333	\$15,445	0.47	\$13,165	\$8,675	1.52
ascade Energy - Trade ally/project facilitation	Refrigeration	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
ascade Energy - Trade ally/project facilitation	Refrigeration	\$9,912	\$11,679	0.85	\$9,011	\$11,679	0.77	\$9,011	\$10,015	0.90	\$9,011	\$21,950	0.41	\$23,126	\$8,165	2.83
ascade MA	Energy management	\$7,716	\$9,644	0.80	\$7,015	\$9,644	0.73	\$7,015	\$9,844	0.71	\$7,015	\$18,313	0.38	\$17,739	\$1,200	14.78
ascade MA	Energy management	\$10,296	\$14,466	0.71	\$9,360	\$14,466	0.65	\$9,360	\$14,766	0.63	\$9,360	\$24,399	0.38	\$20,467	\$1,800	11.37
ascade MA	Energy management	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
ascade MA	Site specific commercial	\$42,804	\$30,488	1.40	\$38,913	\$30,488	1.28	\$38,913	\$30,088	1.29	\$38,913	\$75,515	0.52	\$102,855	\$24,800	4.15
ascade MA	Site specific industrial	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
ascade MA	Site specific industrial	\$109,490	\$101,324	1.08	\$99,536	\$101,324	0.98	\$99,536	\$94,024	1.06	\$99,536	\$188,065	0.53	\$225,582	\$89,600	2.52
ascade MA	Site specific irrigation	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Trade Ally Lighting	Lighting	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Trade Ally Lighting	Lighting	\$346,113	\$232,163	1.49	\$314,648	\$232,163	1.36	\$314,648	\$207,412	1.52	\$314,648	\$642,373	0.49	\$602,637	\$128,897	4.68
Trade Ally Non-Lighting	Appliances	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Trade Ally Non-Lighting	Food Service	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Trade Ally Non-Lighting	Food Service Equipment	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Trade Ally Non-Lighting	HVAC	\$101,614	\$105,012	0.97	\$92,377	\$105,012	0.88	\$92,377	\$126,392	0.73	\$92,377	\$239,302	0.39	\$263,183	\$89,367	2.94
Trade Ally Non-Lighting	Motors	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Trade Ally Non-Lighting	Motors	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Trade Ally Non-Lighting	Motors	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Trade Ally Non-Lighting	Refrigeration	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Trade Ally Non-Lighting	Water Heating	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00

PacifiCorp Cost-effectiveness Summary of 2024 Program Changes Wattsmart Business Cost-effectiveness with Portfolio Costs Included

Resource Acquisition and Equity Programs

This document summarizes the modified Biennial Budget Advice Letter (BBAL) cost-effectiveness modeling for California. These modifications represent the program changes described in PacifiCorp (U 901-E) Advice Letter No. 742-E; each scenario is analyzed using modeled assumptions provided by PacifiCorp. These scenarios utilize the following assumptions:

- **Scenarios:** Ran cost-effectiveness for program year 2024.
- **Avoided Costs:** PacifiCorp's analysis uses the avoided costs from the BBAL cost-effectiveness model for Advice Letter 697-E submitted for PacifiCorp's Energy Efficiency Portfolio in Program Years 2023-2024. The *CPUC Avoided Costs* are applied against California and sector specific end-use load shapes.
- **Energy Rates:** Utilized the rates provided for PY2020 and applied an escalation of 2.16% to arrive at estimated energy rates for PY2024.
- **Line Loss Factors:** Sector specific line loss factors utilized throughout the analysis.

This memo will begin by addressing the inputs used in the analysis of the California BBAL. The cost-effectiveness inputs are as follows:

Table 1 - Utility Inputs

Parameter	PY2024
Discount Rate	6.88%
Commercial Line Loss	8.63%
Industrial Line Loss	8.53%
Irrigation Line Loss	8.78%
Commercial Energy Rate (\$/kWh) ¹	\$0.1476
Industrial Energy Rate (\$/kWh) ¹	\$0.1119
Irrigation Energy Rate (\$/kWh) ¹	\$0.1402
Energy-to-Capacity Conversion Factor	0.000734699
Inflation Rate	2.16%

¹ Future rates determined using a 2.16% annual escalator.

Table 2 –Portfolio Level Costs

Expense	Total PY2024	C&I PY 2024	Residential PY 2024
Portfolio - Administrative Costs	\$25,115	\$16,743	\$8,372
Portfolio - Direct Implementation - non-incentives	\$18,500	\$17,668	\$832
Portfolio - IOUs administered marketing, education, and outreach	\$191	\$0	\$191
Portfolio - Program Evaluation	\$78,536	\$42,816	\$35,720
Total Costs	\$122,342	\$77,227	\$45,115

Table 3 –Program Costs by Sector without Portfolio Costs Included

Sector	Administrative Costs	Direct Implementation - non-incentives	IOUs administered marketing, education, and outreach	Program Evaluation	Incentives	Total Utility Costs	Gross Customer Costs
Residential	\$17,750	\$186,990	\$115	\$0	\$33,023	\$237,878	\$67,866
C&I Programs	\$26,000	\$340,207	\$18,674	\$0	\$304,143	\$689,024	\$492,784
Total	\$43,750	\$527,197	\$18,789	\$0	\$337,166	\$926,902	\$560,650

Table 4 – Program Savings by Sector

Sector	Gross kWh Savings	Realization Rate	Adjusted Gross kWh Savings	Net to Gross Ratio	Net kWh Savings	Measure Life
Residential	244,847	100%	244,847	90%	219,988	4
C&I Programs	1,221,193	97%	1,188,279	65%	774,447	9
Total	1,466,040	98%	1,433,126	69%	994,434	8

Table 5 - Benefit/Cost Ratios by Sector without Portfolio Costs Included

Sector	PTRC	TRC	UCT	RIM	PCT
Residential	0.32	0.29	0.31	0.23	2.18
C&I Programs	1.07	0.97	1.05	0.45	3.19
Total Portfolio	0.86	0.78	0.83	0.41	3.07

Table 6 through Table 8 provide cost-effectiveness results for the overall portfolio and the individual sectors.

**Table 6 – California Portfolio Level Cost-Effectiveness Results with Portfolio Costs Included
PY2024**

Cost-Effectiveness Test	Levelized \$/kWh	Levelized \$/kW	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	\$0.1712	\$233.07	\$1,143,449	\$874,185	-\$269,264	0.76
Total Resource Cost Test (TRC) No Adder	\$0.1712	\$233.07	\$1,143,449	\$794,714	-\$348,735	0.70
Program Administrator Cost (PAC)	\$0.1616	\$219.90	\$1,078,836	\$794,714	-\$284,122	0.74
Rate Impact Test (RIM)			\$2,058,662	\$794,714	-	0.39
Participant Cost Test (PCT)			\$560,650	\$1,720,128	\$1,159,478	3.07
Total System Benefits						\$792,643
Lifecycle Revenue Impacts (\$/kWh)						\$0.0000083024
Discounted Participant Payback (years)						1.68

**Table 7 – California Residential Level Cost-Effectiveness Results with Portfolio Costs Included
- PY2024**

Cost-Effectiveness Test	Levelized \$/kWh	Levelized \$/kW	Costs	Benefits	Net Benefits	Benefit/Cost Ratio
Total Resource Cost Test (PTRC) + Conservation Adder	\$0.4360	\$593.40	\$294,037	\$95,337	-\$198,700	0.32
Total Resource Cost Test (TRC) No Adder	\$0.4360	\$593.40	\$294,037	\$86,670	-\$207,367	0.29
Program Administrator Cost (PAC)	\$0.4196	\$571.11	\$282,993	\$86,670	-\$196,323	0.31
Rate Impact Test (RIM)			\$370,858	\$86,670	-\$284,187	0.23
Participant Cost Test (PCT)			\$67,866	\$147,949	\$80,083	2.18
Total System Benefits						\$86,670
Lifecycle Revenue Impacts (\$/kWh)						\$0.0000050759
Discounted Participant Payback (years)						1.29

Table 9 and 10 provide cost-effectiveness results for the measure categories by sector.

Table 9 – Residential Portfolio Measure Category Level Cost-Effectiveness Results - PY2024

Program	Measure Category	P-TRC Benefits (\$)	P-TRC Costs (\$)	P-TRC Test	TRC Benefits (\$)	TRC Costs (\$)	TRC Test	Utility PV Benefits (\$)	Utility PV Costs (\$)	Utility Cost Test	Ratepayer PV Benefits (\$)	Ratepayer PV Costs (\$)	RIM Test	Participant PV Benefits (\$)	Participant PV Cost (\$)	PCT Test
Home Energy Savings	Appliance or Plug Load	\$620	\$2,555	0.24	\$564	\$2,555	0.22	\$564	\$1,646	0.34	\$564	\$2,231	0.25	\$1,369	\$1,792	0.76
Home Energy Savings	Appliances	\$242	\$1,111	0.22	\$220	\$1,111	0.20	\$220	\$1,075	0.20	\$220	\$1,308	0.17	\$792	\$244	3.25
Home Energy Savings	Building Envelope	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Home Energy Savings	Building Shell	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Home Energy Savings	Electronics	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Home Energy Savings	HVAC	\$31,115	\$83,879	0.37	\$28,286	\$83,879	0.34	\$28,286	\$66,588	0.42	\$28,286	\$92,796	0.30	\$60,726	\$57,647	1.05
Home Energy Savings	Service	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Home Energy Savings	Water Heating	\$38,984	\$96,852	0.40	\$35,440	\$96,852	0.37	\$35,440	\$105,130	0.34	\$35,440	\$144,270	0.25	\$59,991	\$5,188	11.56
Home Energy Savings	Whole Building	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Home Energy Savings	Whole Home	\$4,421	\$7,311	0.60	\$4,019	\$7,311	0.55	\$4,019	\$6,225	0.65	\$4,019	\$9,662	0.42	\$6,810	\$2,995	2.27
Home Energy Reports	Larger Participant Group	\$19,955	\$102,329	0.20	\$18,141	\$102,329	0.18	\$18,141	\$102,329	0.18	\$18,141	\$120,591	0.15	\$18,262	\$0	0.00

Table 10 – C&I Portfolio Measure Category Level Cost-Effectiveness Results - PY2024

Delivery Channel	Measure Category	P-TRC Benefits (\$)	P-TRC Costs (\$)	P-TRC Test	TRC Benefits (\$)	TRC Costs (\$)	TRC Test	Utility PV Benefits (\$)	Utility PV Costs (\$)	Utility Cost Test	Ratepayer PV Benefits (\$)	Ratepayer PV Costs (\$)	RIM Test	Participant PV Benefits (\$)	Participant PV Cost (\$)	PCT Test
Cascade Energy - Trade ally/project facilitation	Compressed air	\$7,511	\$7,675	0.98	\$6,828	\$7,675	0.89	\$6,828	\$6,909	0.99	\$6,828	\$13,774	0.50	\$13,505	\$4,716	2.86
Cascade Energy - Trade ally/project facilitation	Compressed air	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Cascade Energy - Trade ally/project facilitation	Farm and Dairy	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Cascade Energy - Trade ally/project facilitation	Farm and Dairy	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Cascade Energy - Trade ally/project facilitation	Industrial - Energy Management	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Cascade Energy - Trade ally/project facilitation	Industrial - Energy Management	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Cascade Energy - Trade ally/project facilitation	Irrigation - Energy Management	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Cascade Energy - Trade ally/project facilitation	Irrigation - irrigation systems	\$85,864	\$114,817	0.75	\$78,058	\$114,817	0.68	\$78,058	\$82,357	0.95	\$78,058	\$170,863	0.46	\$183,077	\$103,135	1.78
Cascade Energy - Trade ally/project facilitation	Irrigation - water distribution equipment	\$8,067	\$11,556	0.70	\$7,333	\$11,556	0.63	\$7,333	\$7,387	0.99	\$7,333	\$15,681	0.47	\$13,165	\$8,675	1.52
Cascade Energy - Trade ally/project facilitation	Refrigeration	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Cascade Energy - Trade ally/project facilitation	Refrigeration	\$12,104	\$11,991	1.01	\$11,004	\$11,991	0.92	\$11,004	\$10,327	1.07	\$11,004	\$24,380	0.45	\$26,656	\$8,165	3.26
Cascade MA	Energy management	\$6,870	\$10,223	0.67	\$6,246	\$10,223	0.61	\$6,246	\$10,423	0.60	\$6,246	\$18,892	0.33	\$17,739	\$1,200	14.78
Cascade MA	Energy management	\$10,296	\$15,334	0.67	\$9,360	\$15,334	0.61	\$9,360	\$15,634	0.60	\$9,360	\$25,267	0.37	\$20,467	\$1,800	11.37
Cascade MA	Energy management	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Cascade MA	Site specific commercial	\$38,511	\$31,645	1.22	\$35,010	\$31,645	1.11	\$35,010	\$31,245	1.12	\$35,010	\$76,673	0.46	\$102,855	\$24,800	4.15
Cascade MA	Site specific industrial	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
Cascade MA	Site specific industrial	\$101,354	\$104,941	0.97	\$92,140	\$104,941	0.88	\$92,140	\$97,641	0.94	\$92,140	\$191,682	0.48	\$225,582	\$89,600	2.52
Cascade MA	Site specific irrigation	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
RI Trade Ally Lighting	Lighting	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
RI Trade Ally Lighting	Lighting	\$346,113	\$236,722	1.46	\$314,648	\$236,722	1.33	\$314,648	\$211,971	1.48	\$314,648	\$637,756	0.49	\$591,756	\$128,897	4.59
RI Trade Ally Non-Lighting	Appliances	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
RI Trade Ally Non-Lighting	Food Service	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
RI Trade Ally Non-Lighting	Food Service Equipment	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
RI Trade Ally Non-Lighting	HVAC	\$101,105	\$106,955	0.95	\$91,914	\$106,955	0.86	\$91,914	\$128,335	0.72	\$91,914	\$238,863	0.38	\$259,213	\$89,367	2.90
RI Trade Ally Non-Lighting	Motors	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
RI Trade Ally Non-Lighting	Motors	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
RI Trade Ally Non-Lighting	Motors	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
RI Trade Ally Non-Lighting	Refrigeration	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00
RI Trade Ally Non-Lighting	Water Heating	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00	\$0	\$0	0.00

CERTIFICATE OF SERVICE
GO-96B Distribution List

I hereby certify that, pursuant to the Commission's Rules of Practice and Procedure, I have on this 14th of June, 2024, at Portland, OR, provided via email, a true and correct copy of PacifiCorp's Advice Letter 742-E to the following:

Robert M. Pocta
California Public Utilities Commission
Energy Cost of Service & Natural Gas
Room 4205
505 Van Ness Avenue
San Francisco, CA 94102
rmp@cpuc.ca.gov

Ralph Cavanagh
National Resources Defense Council
111 Sutter St. 20th Floor
San Francisco, CA 94104

Simon Baker
Interim Director Energy Division
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Surprise Valley Electrification
516 US Highway 395 E
Alturas, CA 96101-4228

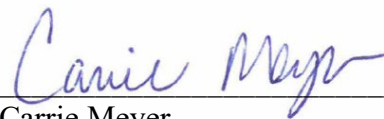
James Wuehler
California Public Utilities Commission
jrw@cpuc.ca.gov

Robert Finkelstein
TURN
bfinkelstein@turn.org

Michael B. Day
Downey Brand LLP
455 Market Street, Suite 1500
San Francisco, CA 94105
mday@DowneyBrand.com

Dan Marsh
Liberty Utilities
Manager, Rates and Regulatory Affairs
701 National Ave
Tahoe Vista, CA 96148
Dan.Marsh@libertyutilities.com

Leah Bahramipour
Sierra Club
2101 Webster Street, Suite 1300
Oakland, CA 94612
leah.bahramipour@sierraclub.org



Carrie Meyer
Adviser, Regulatory Operations

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA**

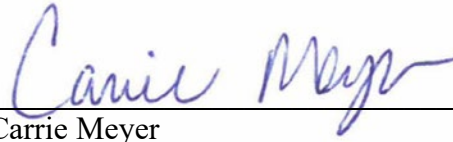
Application of PACIFICORP (U 901 E), an
Oregon Company, to Continue its Energy
Efficiency Programs and the Surcharge to Fund
Public Purpose Programs

Application 20-12-018

CERTIFICATE OF SERVICE

I hereby certify that I have this day caused a copy of the foregoing **Advice Letter No. 742-E** on all known parties to the attached service list by transmitting an e-mail message with the document attached to each person named in the official service list.

Executed on June 14, 2024, at Portland, Oregon.



Carrie Meyer
Adviser, Regulatory Operations



California
Public Utilities
Commission



[CPUC Home](#)

CALIFORNIA PUBLIC UTILITIES COMMISSION Service Lists

PROCEEDING: A2012018 - PACIFICORP - TO CONT
FILER: PACIFICORP
LIST NAME: LIST
LAST CHANGED: DECEMBER 16, 2021

[Download the Comma-delimited File](#)
[About Comma-delimited Files](#)

[Back to Service Lists Index](#)

Parties

CARLA SCARSELLA
DEPUTY GENERAL COUNSEL
PACIFICORP
825 NE MULTNOMAH ST, STE 2000
PORTLAND, OR 97232
FOR: PACIFICORP

Information Only

CHERYL WYNN
CALIF PUBLIC UTILITIES COMMISSION
COMMISSIONER SHIROMA
320 West 4th Street Suite 500
Los Angeles, CA 90013

JASON SYMONDS
CALIF PUBLIC UTILITIES COMMISSION
COMMISSIONER DOUGLAS
AREA
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

PATRICIA MILES
CALIF PUBLIC UTILITIES COMMISSION
ADMINISTRATIVE LAW JUDGE DIVISION
ROOM 5106
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

SARAH LERHAUPT
CALIF PUBLIC UTILITIES COMMISSION
ELECTRIC RATES, CUSTOMER GENERATION AND
AREA
505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3214

POOJA KISHORE
MGR - REGULATORY AFFAIRS
PACIFICORP
825 NE MULTNOMAH STREET, SUITE 2000
PORTLAND, OR 97232

[TOP OF PAGE](#)
[BACK TO INDEX OF SERVICE LISTS](#)