



Oregon

UTILITY ROUNDTABLES 2025

Oct. 15-16, 2025



Welcome and Introductions

- Thank you, Canby Utility for hosting!
- Energy Efficiency Representatives (EER), Brice Lang, Corinne Mauck, Ryan LeBaron, and Phillip Kelsven.
- Attendees, please share:
 - Name and Utility/Organization.
 - Role in Energy Efficiency (EE) and how long you've been working in EE!

Safety Moment



Think About

- What are your goals for the upcoming rate period?
- How can Bonneville Power Administration (BPA) help you reach those goals?
- What else would you like to share with us?



BPA Updates

UTILITY ROUNDTABLES 2025

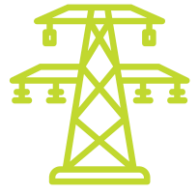
Oct. 15-16, 2025



Overview

- BPA Energy Efficiency Objectives.
- Fiscal Year (FY) 2024-2025 rate period wrap up/look ahead:
 - FY 2024-2025 savings by sector.
 - BP-22 rate case vs. BP-25 rate case.
- Three-year rate period:
 - Why a three-year rate period?
 - EEI budget.
- Implementation Manual (IM):
 - Two IMs.
 - Reporting changes.

BPA Energy Efficiency Objectives



1

Acquire energy efficiency savings that provide the greatest power resource benefits for the region.



2

Meet BPA's share of the energy efficiency goals established in the 8th Power Plan and prioritize cost-effective measures.



3

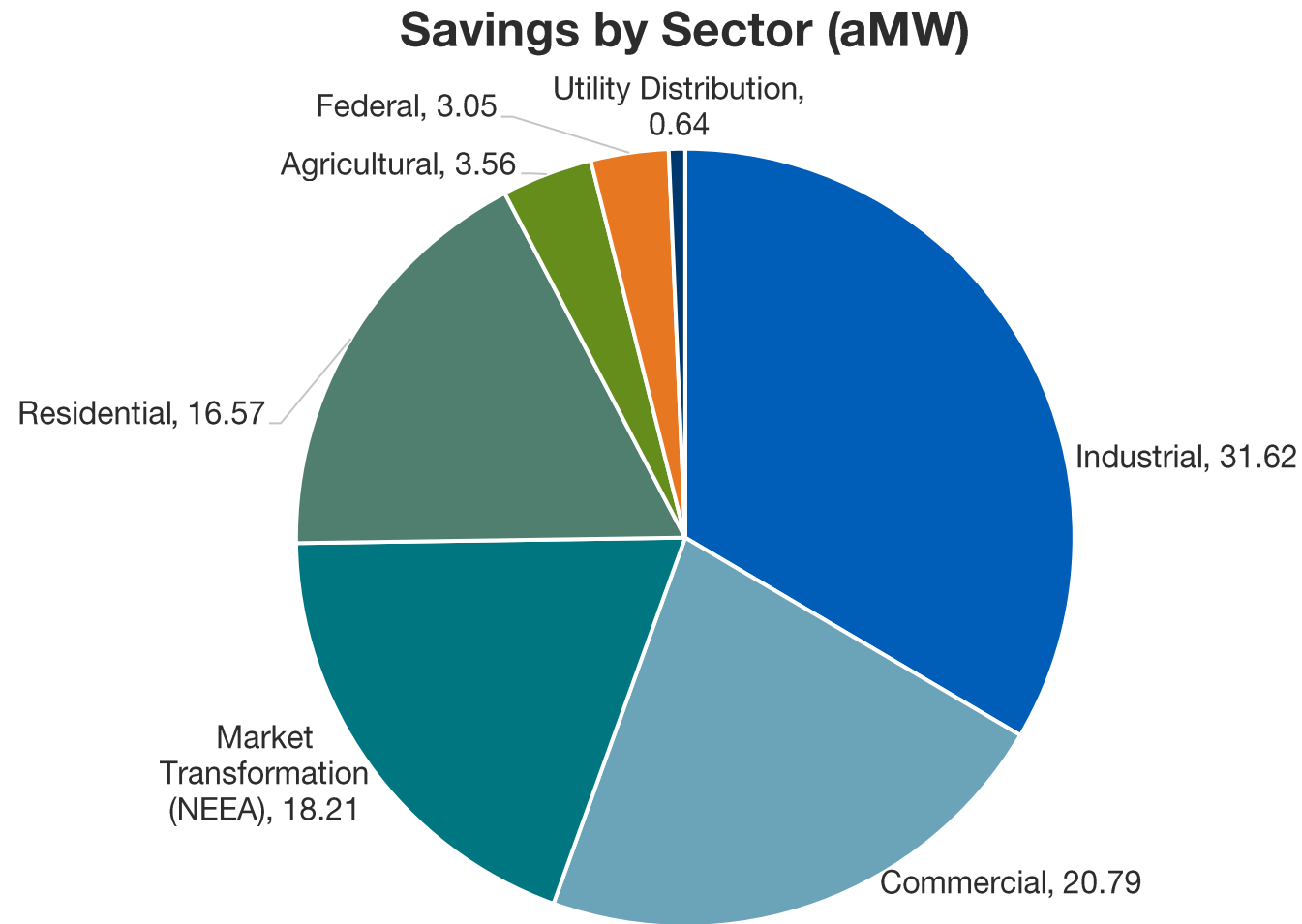
Offer a broad suite of measures that supports **all** BPA customers and their rate-payers in all sectors and demographics.

Fiscal Year 2024-2025 Wrap Up/Look Ahead

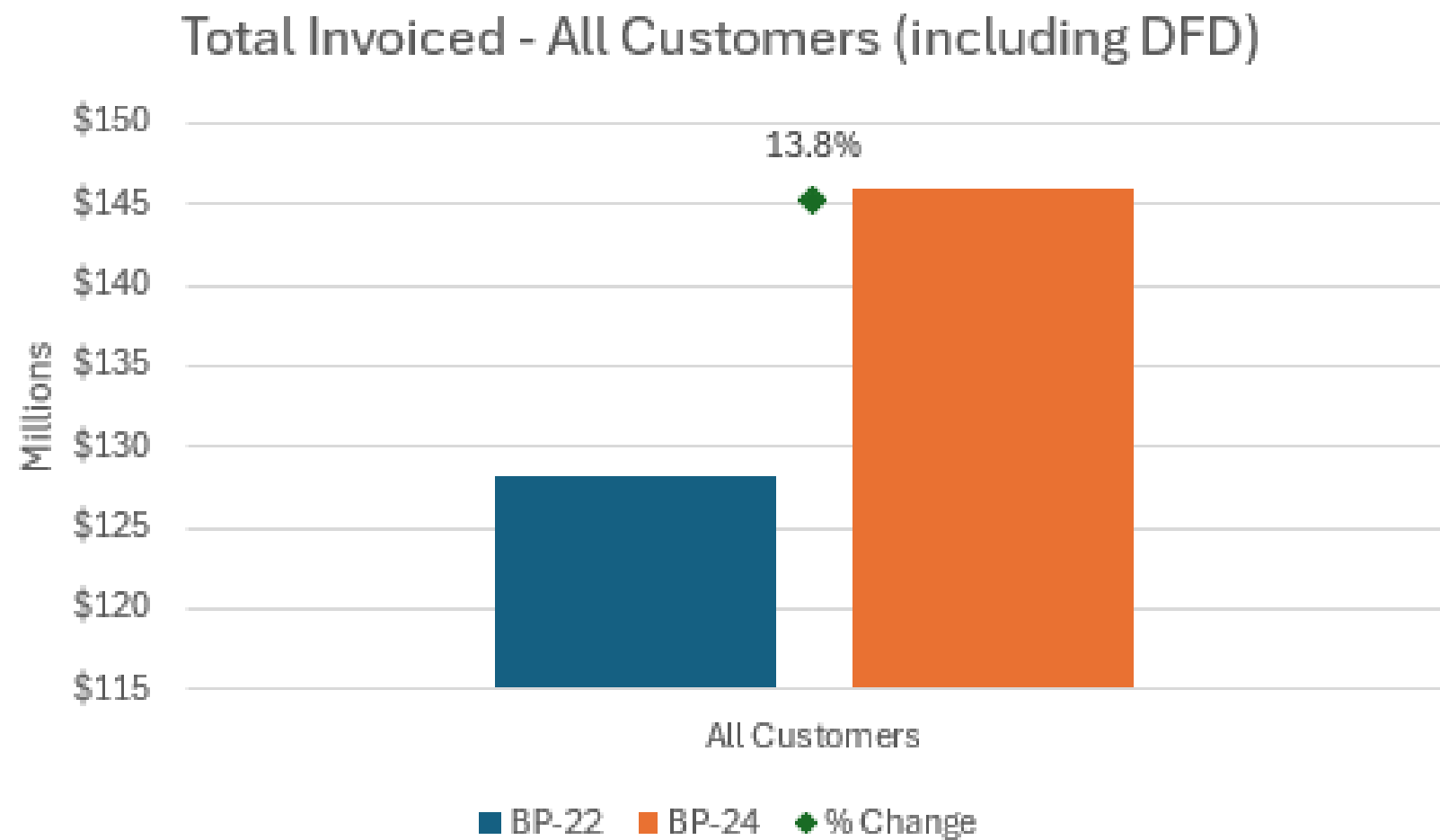
- ✓ In FY 2022-2023 (BP-22), BPA acquired 89.6 aMW.
- ✓ In FY 2024-2025 (BP-24), BPA's goal was to achieve 90 aMW. Tentatively acquired 94.44 aMW.
- ✓ FY 2026-2027, BPA's goal is 90 aMW
- ✓ BPA remains on track to meet its 300 aMW energy conservation goal!



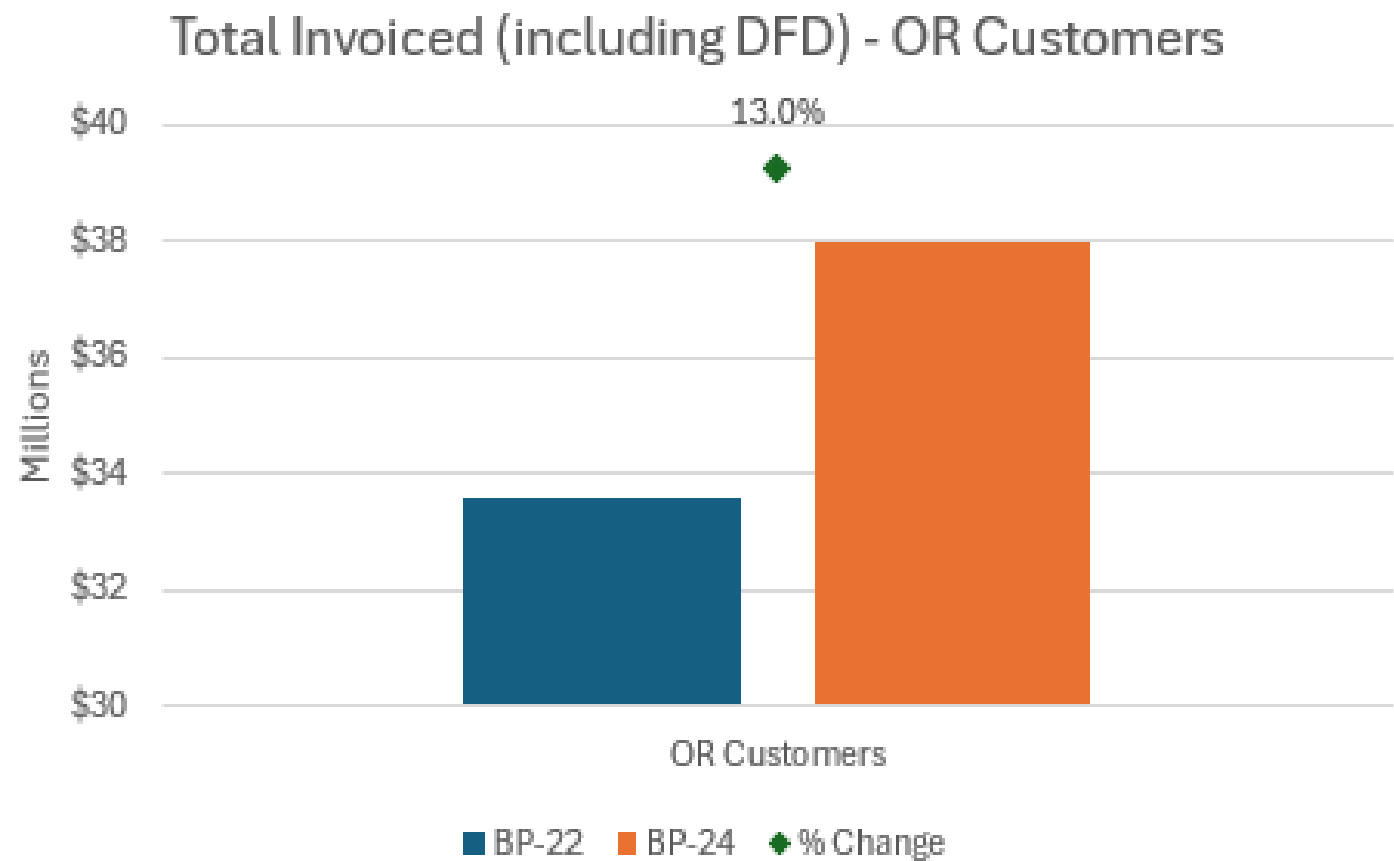
BP-24 Savings by Sector



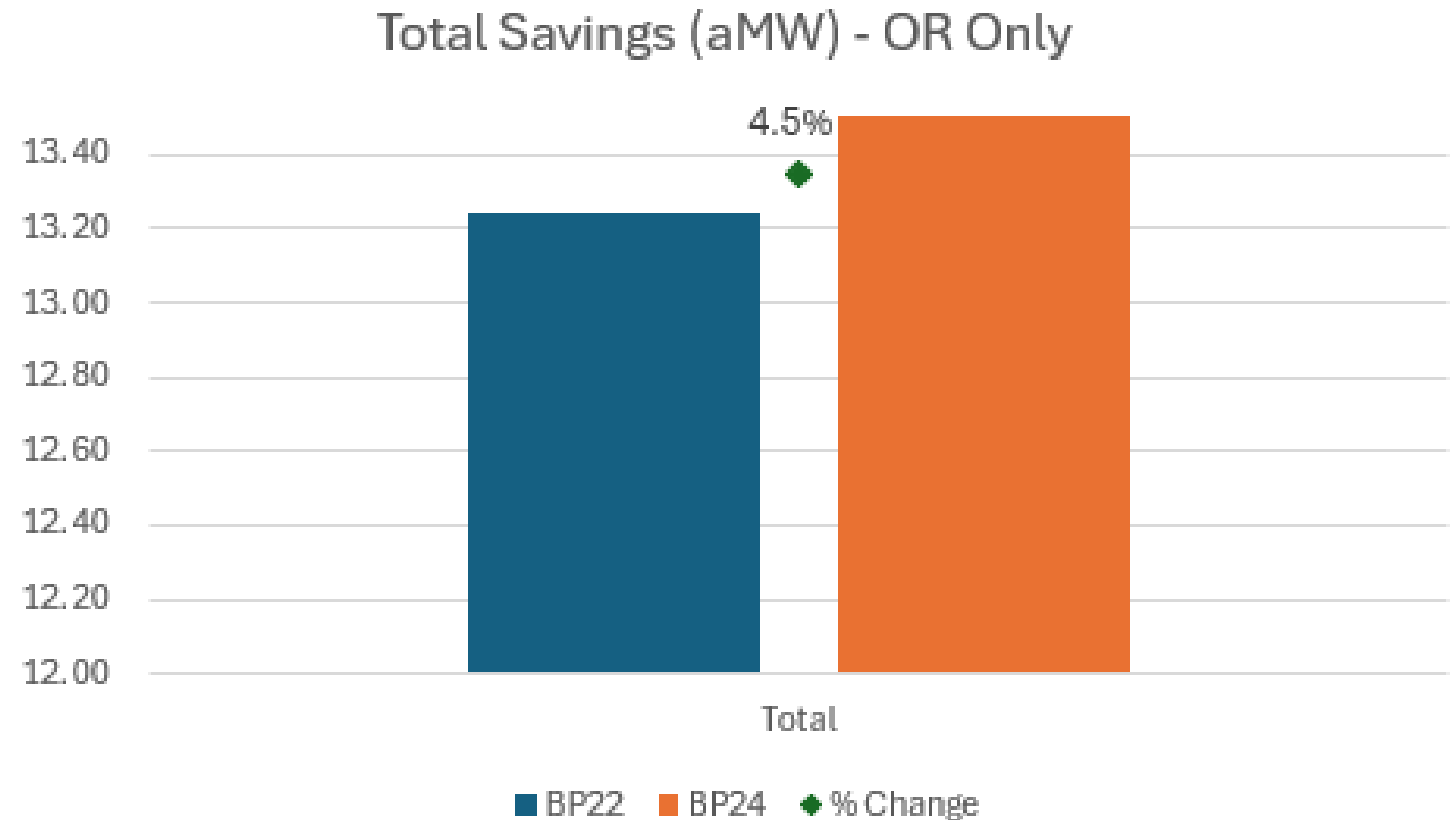
BP-22 vs. BP-24 Total Invoiced



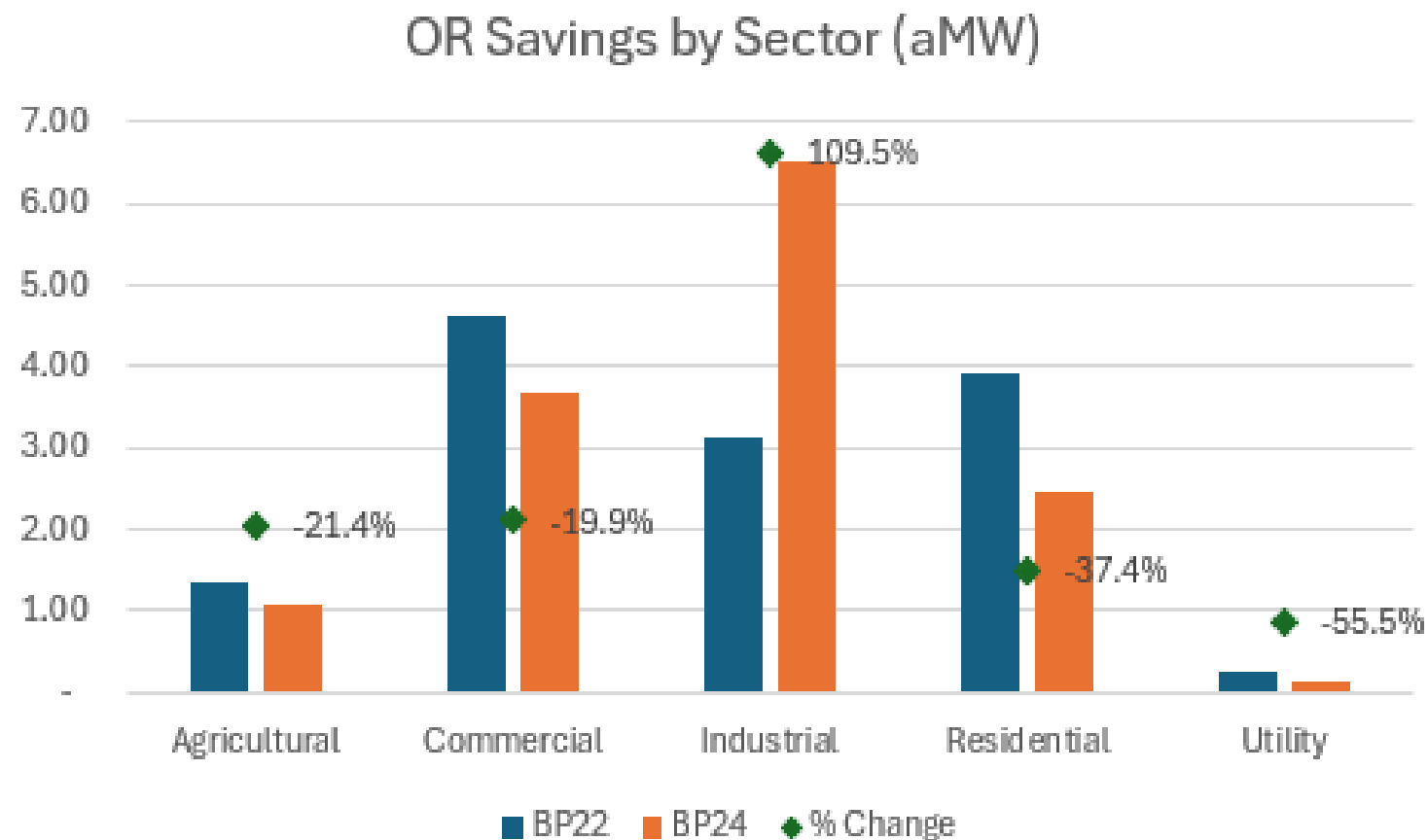
Oregon: BP-22 vs. BP-24 Invoiced



Oregon: BP-22 vs. BP-24 Savings



Oregon: BP-22 vs. BP-24 Savings by Sector



(Why) A Three-Year Rate Period?

- 20-year Regional Dialogue contracts expire at the end of FY 2028.
- BPA rate periods for EE are in two-year increments, which would leave FY 2028 stranded.



Complexities of a Three-Year Rate Period

- The 9th Power Plan will tentatively be published in 2026 – possibly changing the underlying details of many measures.
- Activity tends to cluster in the latter part of the rate periods.
- Delayed reporting creates risk that BPA may not reach savings targets.
- There may be significant measure changes from the evolving EE market landscape during three years.



Implementation Manual and Budget

- Two Implementation Manuals.
 - FY 2026-2027.
 - FY 2028 (full suite of changes).
- Access to the entire three-year rate period budget at the start of the rate period.
- Seamless budget to utilities but allocated by each FY.



Reporting Changes

- Projects to be submitted into BPA Energy Efficiency Tracking System (BEETS) within six months of completion date.
- Projects to be invoiced within 60 days of “Ready to Invoice” status.
- BPA requests utilities report activity into BEETS at least once every six months.



Reporting Changes

Now – As of October 1, 2025.

- Installed costs for all residential measures.
- Installed and repair costs (if applicable) for income qualified measures.
- See **Oct. 2, 2025 Webinar**.

Later – April 1, 2026.

- Upload cost documentation.
- Utility Site Inspections **are not** required; required to indicate **yes/no** if conducted.
- BPA Site Inspections on a small portion of sites.
- See **Sept. 25, 2025 Webinar**.





Questions or Comments?



Commercial and Industrial Sector UTILITY ROUNDTABLES 2025

Oct. 8-9, 2025



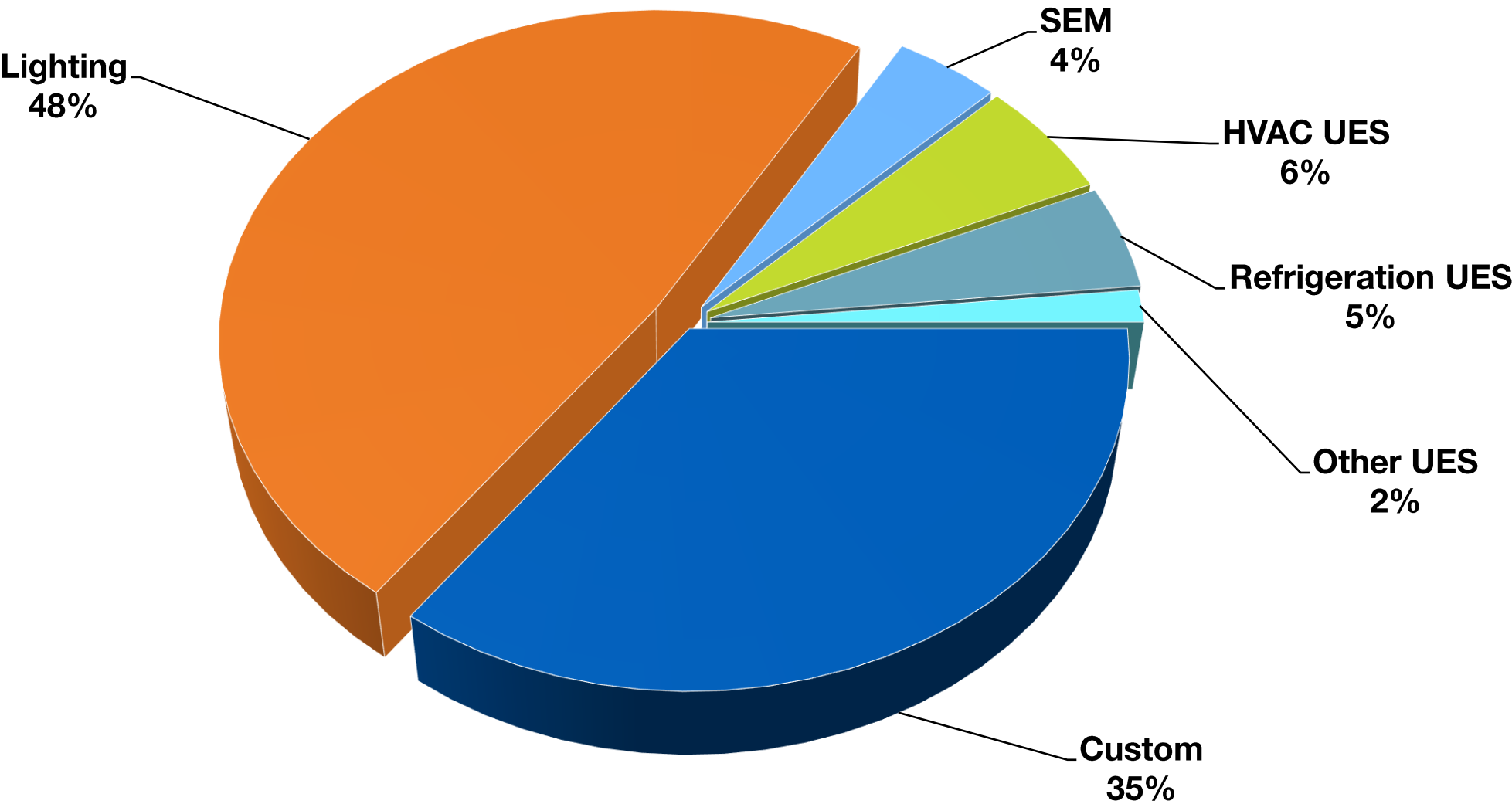
Agenda

- FY 2024-2025 Rate Period Results.
- Nonresidential Lighting.
- Energy Management.
- UES Portfolio Highlights.



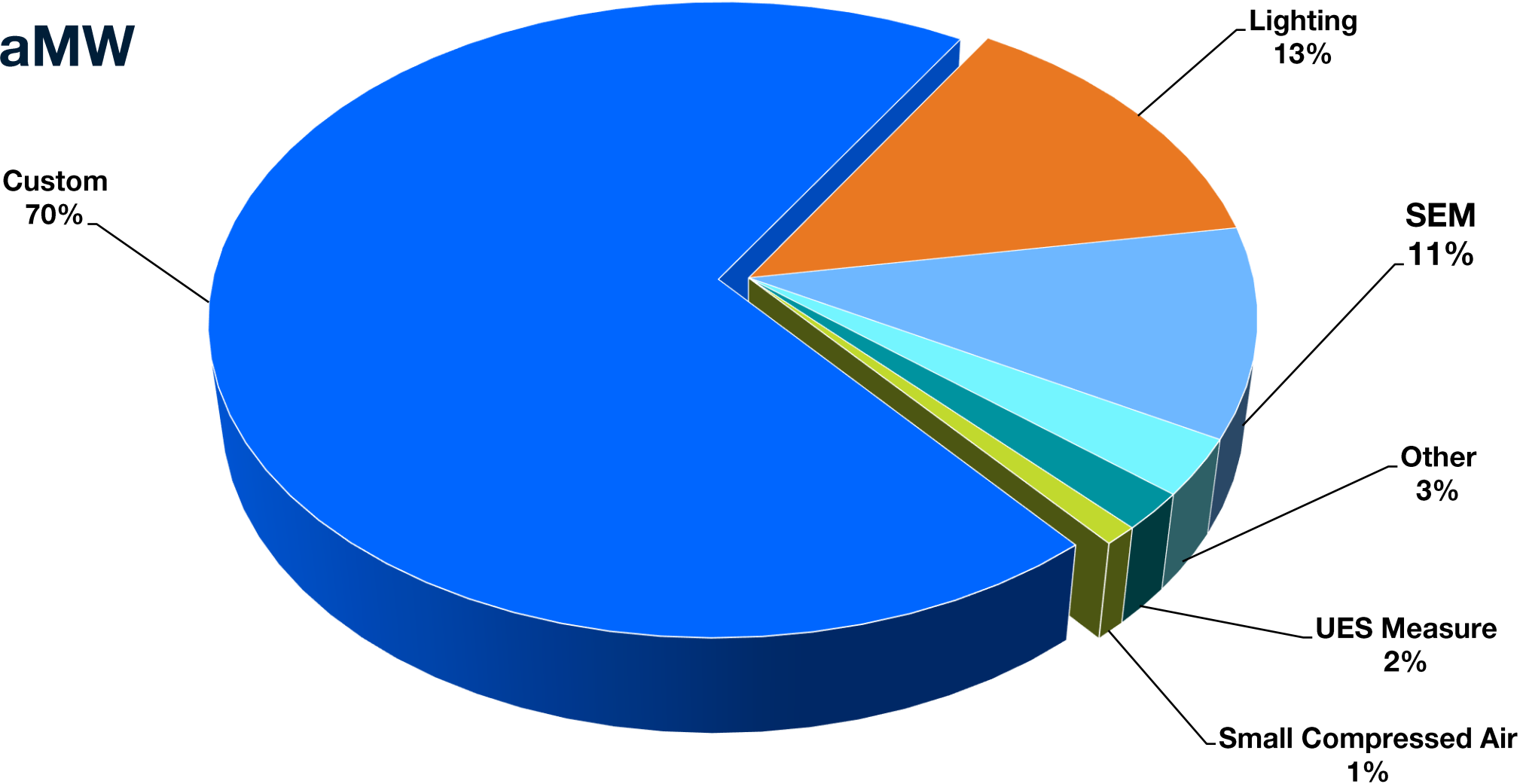
FY 2024-2025 Commercial Savings

20.8
aMW



FY 2024-2025 Industrial Savings

31.6 aMW



Nonresidential Lighting



FY 2026-2027 Incentives

Measure Series	Allocation 24-25	Allocation 26-27
Series A: Small Lamp/Fixture	\$2-5	\$4-10
Series B: LED Tubes (Type A)	\$2	\$4
Series O: LED Tubes (Type B/C)	\$8	\$12
Series C: LED General Indoor/Outdoor	\$20-\$210	\$40-\$280
Series D: LED High Bay	\$80-\$620	\$160-\$800
Series E: LED Exterior	\$30-\$500	\$60-\$800
Series F: HID Screw-in Replacement	\$20-\$150	\$40-\$300
Series: G: LED Linear	\$0.13	\$0.25
Series H: LED Exit Signs	\$20	\$30
Series I: Signage	\$0.13	\$0.25
Series J: Decommissioning	\$0.13	\$0.25
Series K: Non-standard Measures	\$0.13	\$0.25
Series L: Controls	\$10-\$50	\$20-\$200
New Construction	\$0.13	\$0.25

FY 2026-2027 Program Changes

Project Level Requirements

Requirement	Allocation 24-25	Allocation 26-27
Minimum B/C Ratio	0.5 for all projects	0.5 for projects >200,000 kWh
Minimum Wattage Reduction (Retro)	25%	10%
Minimum Wattage Reduction (NC)	20%	10%

Controls

- Removed Networked Lighting Controls option from “General Indoor/Outdoor” and “High Bay” fixture retrofit measures.
- Added Luminaire Level Lighting Control measure- Allows controls to qualify for deemed incentives even when fixture upgrade is non-standard or ineligible.

FY 2026-2027 Program Changes

New Baseline Eligibility Question

Are replacement lamps for existing fixtures unavailable due to federal or state restrictions (eg ban on fluorescent lamp sales in Oregon)?

Related FAQ

- What about projects started in FY 24/25? *Continue to use existing baseline.*
- What about K-12 schools? *Continue to use existing baseline.*
- How do I establish code-baseline for a retrofit project? *Trade allies unlikely to have permit paperwork with energy code compliance documentation. Comcheck offers a free platform to generate code baseline. BPA will accept either whole building or space-by-space method, but utilities should consider potential complexity of documenting square footage using space-by-space method.*
- How do I establish cost for projects using code baseline? *Two options: 1) Compare actual costs to an alternate bid, or 2) 25% of the installed lighting project materials.*
- What about sites with mix of HID and fluorescent? *BPA will accept 2 calculators, but utilities should consider potential complexity.*

Online Lighting Calculator

Recent Changes

- New Allocation (RP_FY26_FY27) is now live.
- Admin access removed for all non-BPA users.
 - Contact lighting@bpa.gov for new users and/or utility configs.
- Project Summary Report runs automatically and accessible via Cloud.
- Measure Management area in Cloud is now read-only.
- Ability to transfer projects to trade allies via “Assign to Agency” function.
- Updated Online Lighting Calculator (OLC) User Manual (v2) released.

Online Lighting Calculator

Planned Changes

- Improve formatting of the Project Summary Report.
- Move Client Report to Cloud (like Project Summary Report).
- Re-create Utility Summary Report.
- Add option for multiple default rate schedules for each utility.



Hancock Software
Bonneville Power Administration
MINT Production Support

MINT Installation Page: updated 3-9-2025 5PM ET - build 1510 Production Build

 [Windows 11 64-bit standard install kit](#)

 [Windows 11 64-bit MSI for Managed Desktops](#)

 [Apple MacBook installation package](#)

[Hancock MINT \(Apple TestFlight\)](#)

[AppStore iPad/iPhone Public build 1472](#)

Online Lighting Calculator

Available Utility Configurations in OLC

- Contact Information.
- Default Energy and Demand Rates.
- Pass-through Incentive Amounts.
- Project Level Caps (Min B/C Ratio, Max \$/kWh, Max % Project Cost).

Reach out to lighting@bpa.gov for support.

Energy Management



Energy Project Manager

- More than 7 aMW worth of savings reported at 25 Energy Project Management (EPM) commercial and industrial sites in FY 2024-2025.
- Eligible for \$1.24M in EPM payments on top of standard measure incentives.

An EPM can improve project outcomes, timeline, and return on investment.



Save more energy and money by maximizing energy savings



Reduce project implementation lead times



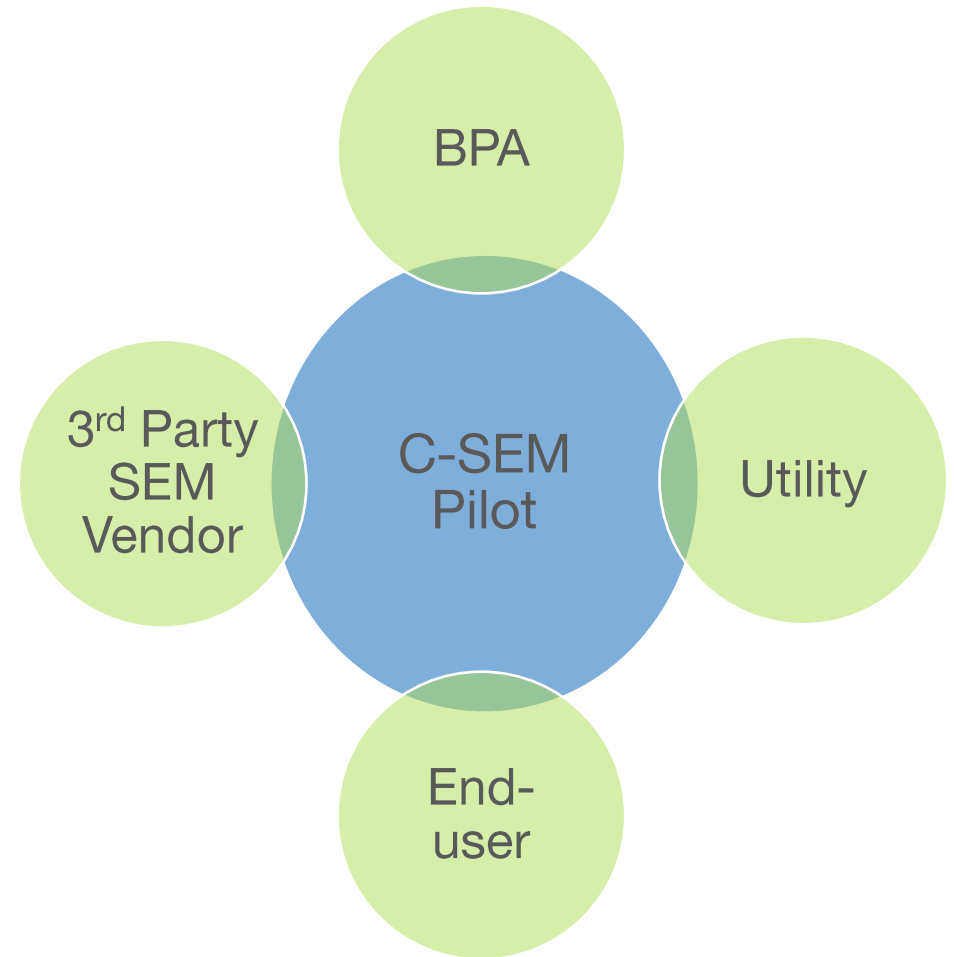
Develop a pipeline of future energy efficiency project opportunities



Earn an EPM payment in addition to energy savings incentives for completed energy efficiency projects.

Strategic Energy Management

- Strategic Energy Management (SEM) generated nearly 4 aMW in savings across 85 commercial and industrial sites in FY 2024/2025.
- First Quarter (Q1) FY 2026: BPA will be engaging USB and any interested utilities in providing feedback on a commercial SEM program pilot design.



UES Portfolio Highlights



Energy Efficiency
Implementation Manual
2026-2027



Commercial HVAC

1. Air-Source Heat Pumps.
2. Ductless Heat Pump (DHP).
3. Supply Air Fan Control.
 - a. Variable Frequency Drive (VFD) on Air-Handler Unit.
 - b. Advanced Rooftop Unit Control.
4. Heat Recovery Ventilators (HRV).
5. Package Terminal Heat Pumps (PTHP).
6. Connected Thermostats.
7. Variable Refrigerant Flow (VRF).
8. Demand Control Kitchen Ventilation.



- Equipment Measure
- Controls Measure

Commercial Refrigeration

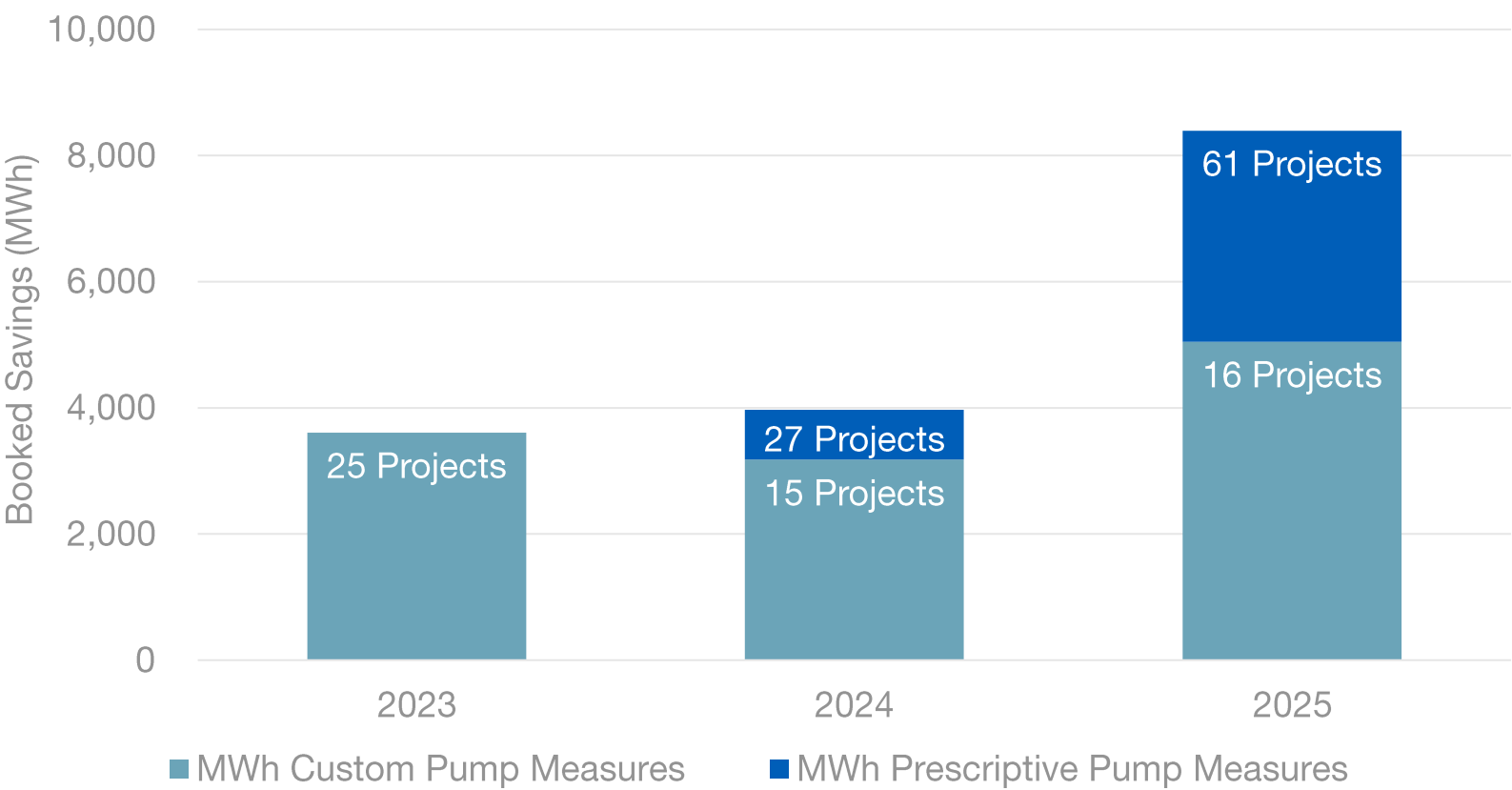
1. Case Door Retrofit.
2. Floating Refrigeration Controls.
3. ECM Evaporator Fans.
4. Evaporator Fan Controls (NEW).



- Equipment Measure
- Controls Measure

Clean Water Pumps

- 1. VFD on Pumps.
- 2. Efficient Pumps.



- Equipment Measure
- Controls Measure



Questions or Comments?

Time for a break!



Energy Smart Industrial Program Update

Jeff Bernacki

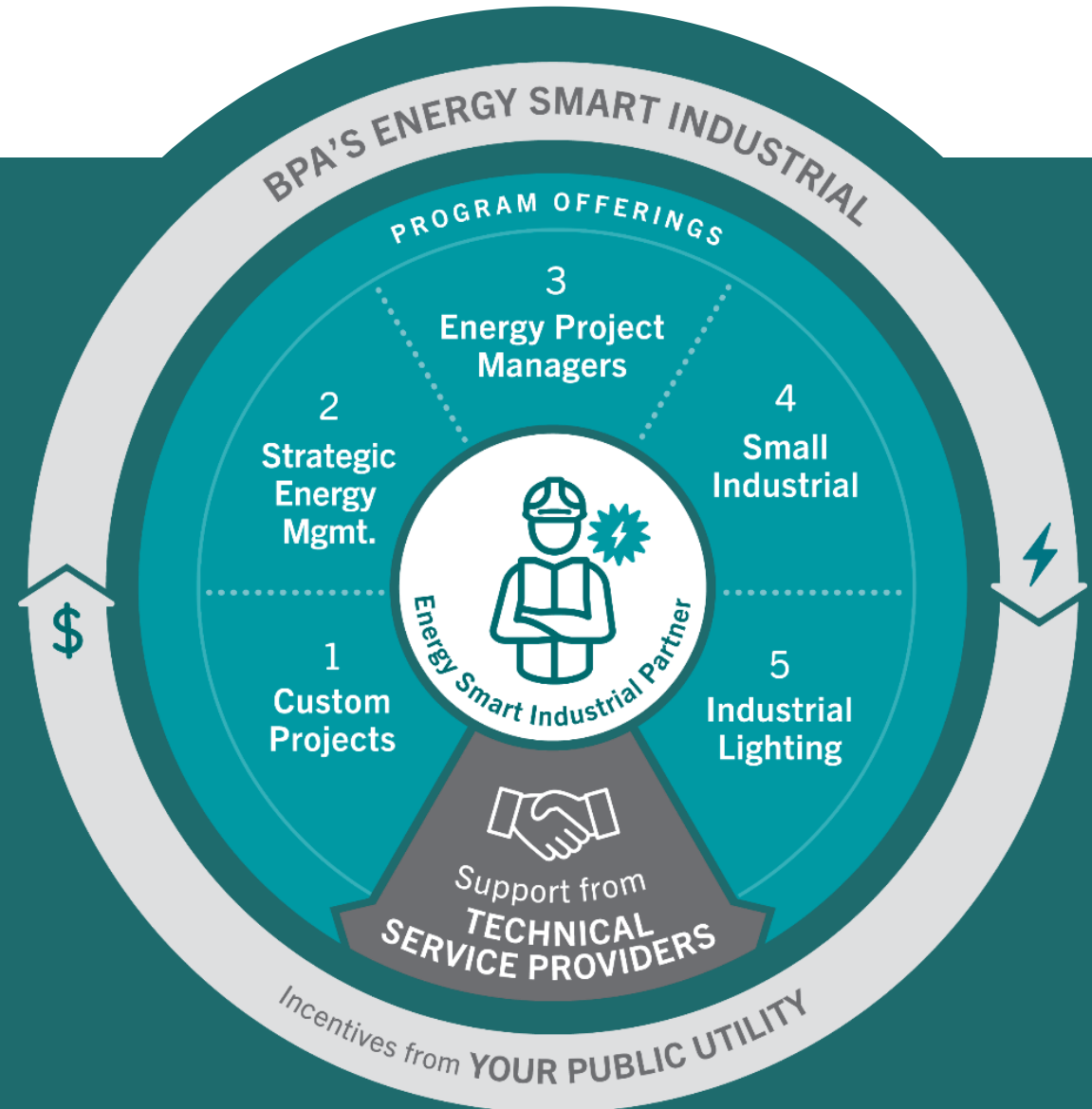
October 15, 2025



What is the ESI Program?

Assists the public utilities and the industries of the Pacific Northwest with **ELECTRICAL** energy efficiency.

- Provides technical expertise and cash incentives to implement energy efficiency projects.
- Serves industries of all types, sizes, and budgets (including wastewater).
- The ESIP serves as a single point of contact for utilities and industries.



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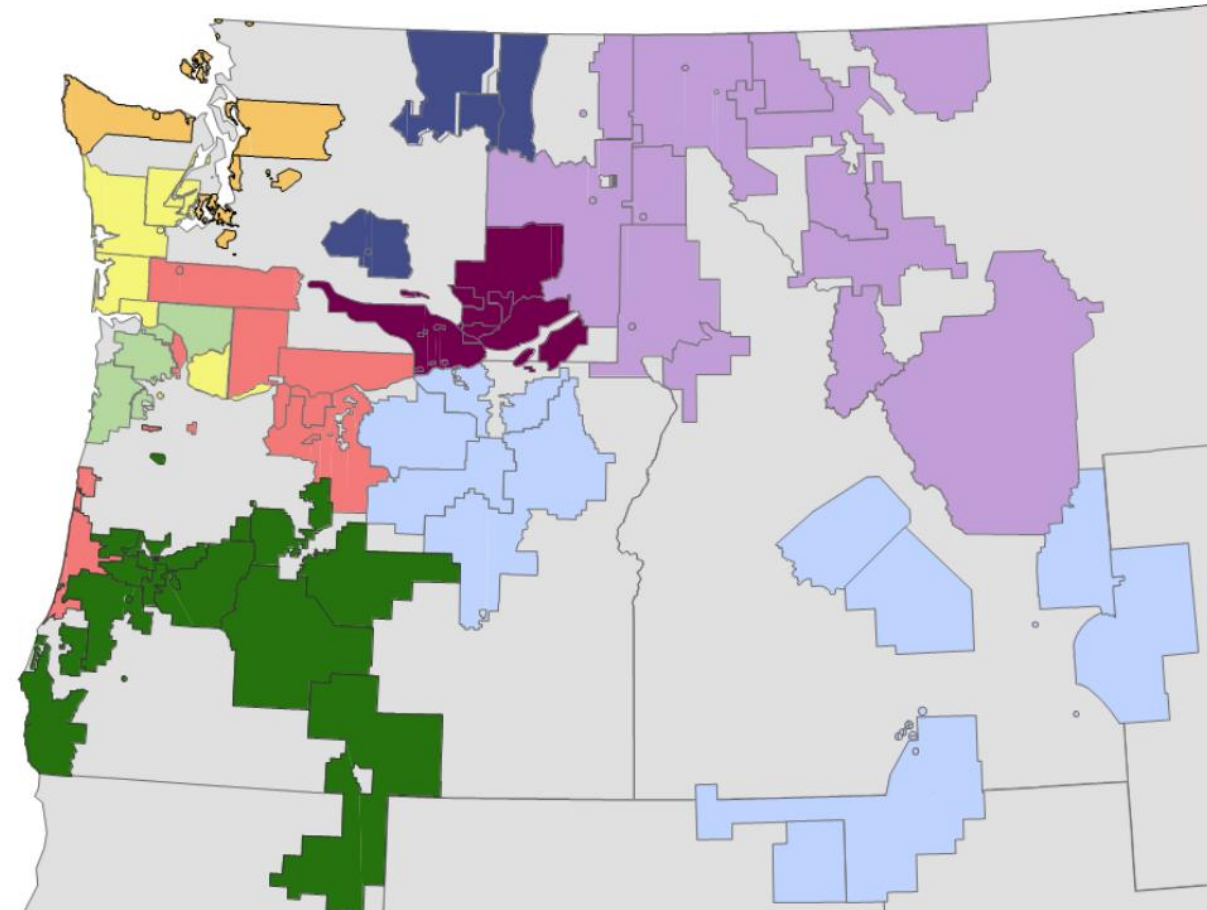
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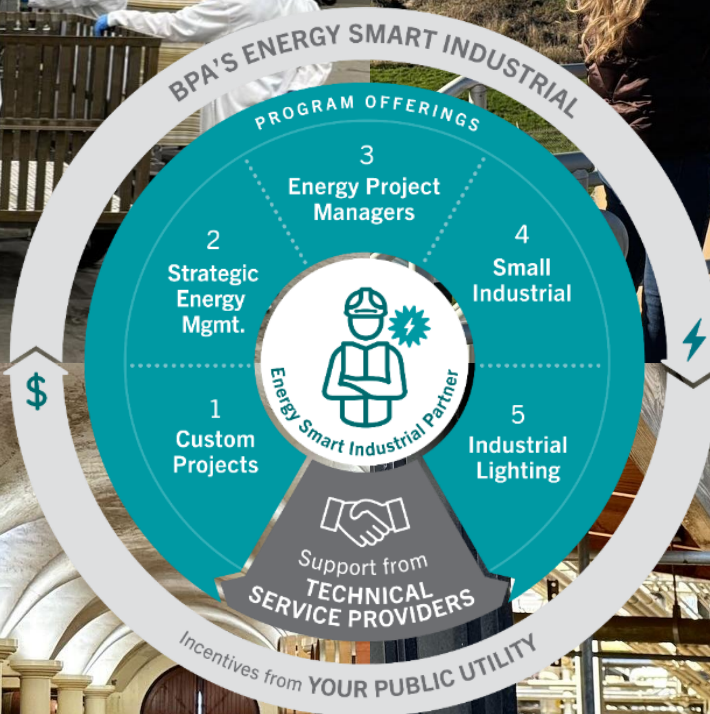


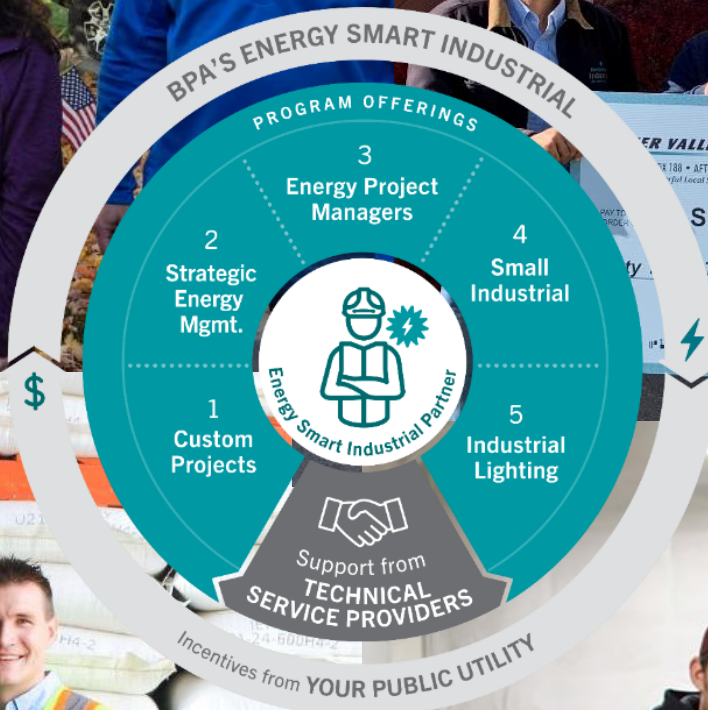
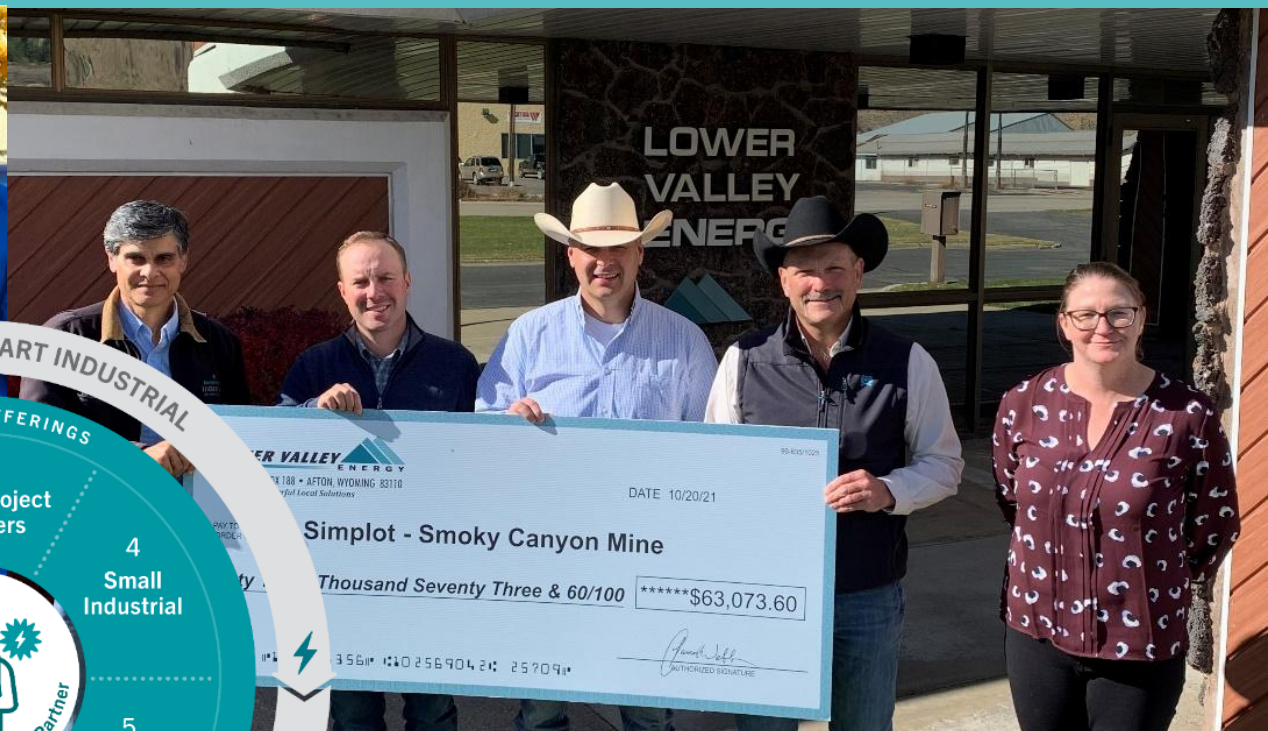
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Extending Strategic Energy Management's (SEM) Reach

ESI is innovating to deliver a **full SEM experience** to industrial participants across a **wide spectrum** of scales and geographies.

Continuous Enrollment

Sites start
when the time
is right for them

Opportunity Identification

Multi-day
tune-ups
or
One-day
treasure hunts

Right-sized M&V

Engineering
calculations
or
Whole-facility
energy model

Flexible Learning

Peer learning
webinars
and
Self-paced
learning

All SEM engagements include:

2-year performance period • Regular check-ins • Eligibility for Performance Tracking System

SEM Outreach Materials


Energy Smart
Industrial

STRATEGIC ENERGY MANAGEMENT

Drive lasting change

Earn cash incentives

Lower utility bills

Tune your systems

Self-paced learning

Are your operations wasting money?

Your facility, systems, and people are unique.

Maximize your energy potential through Strategic Energy Management (SEM), provided through your local utility. Together we'll dive deep into understanding your facility's operations, find ways that it can run more efficiently, and ultimately improve your bottom line.

Acquire new skills and tools to reach your goals.

BPA's Energy Smart Industrial program delivers SEM in a comprehensive, tailored manner that adapts to the needs of each participating business and facility.

Through hands-on application, your team will be empowered to achieve lasting energy savings with minimal time, cost, or process disruptions.

Energy efficiency becomes accessible, actionable, and rewards operations of every size.

- ✓ **Launch SEM with gusto!** Industrial facilities are short on staff and long on priorities. ESI SEM helps you find and achieve low and no-cost quick wins.
- ✓ **Build a strong energy team.** Through structured support and self-paced learning, your energy team will develop skills to have greater energy awareness. ESI guides your organization towards self-sustainable energy management practices to deliver continuous value long after our work is complete.
- ✓ **Discover your facility's efficiency potential.** A dedicated engineer will get to know your facility's unique processes and equipment, identify quick wins and assist your energy team with overcoming common efficiency barriers.
- ✓ **Access great tools.** Our self-paced SEM curriculum and project management software will get you started efficiently. They will help you learn and implement new strategies, organize projects, facilitate collaboration, and ensure long-term savings persistence.
- ✓ **Secure long-term success.** Beyond identifying savings during the SEM two-year engagement, you will establish the systems and practices to keep energy efficiency initiatives moving forward. Your energy team and facility staff will gain the confidence and capability to continuously improve your site's energy performance without external support.

PARTICIPANT CASE STUDY

Rosboro Lumber in Vaughn, OR

Emerald People's Utility District together with BPA's ESI team offered SEM to Rosboro Lumber, providing their energy team with technical skills, performance incentives, and improved O&M practices. By the second year of participation, the team implemented 15 low- and no-cost improvements that reduced the facility's energy consumption by 10%.

 **What could this mean for your facility?**
For a typical facility using 5 million kWh of electricity each year, reducing their energy usage by 5% would save 250,000 kWh while reducing energy costs by \$15,000 annually.

"SEM has been a game-changer. It's opened my eyes to energy savings opportunities, and I'm making smarter decisions because of it."

John Shukle
Electrical Supervisor
at Rosboro Lumber

FAQ

What is included in SEM?

TREASURE HUNT: Partner with ESI's technical experts to identify, evaluate, and implement low and no-cost energy saving opportunities at your facility.

TECHNICAL EXPERTISE: Through regular check-ins and tailored engineering support, your energy team will expand their knowledge while gaining experience with SEM.

ON-DEMAND TRAINING: Self-paced learning modules feature core SEM topics such as how to form an energy team, identify energy-saving opportunities, and engage facility staff. Technical training modules can also boost your knowledge of the operation and efficiency of existing equipment and systems within your facility.

PEER NETWORKING: Connect with other industrial SEM participants regularly to share ideas, gain insights, and learn from each other's experience.

How long does a SEM engagement last?

SEM is a two-year commitment that enables you to identify opportunities, implement projects, and demonstrate improvements over time.

Where do the energy savings come from?

Energy savings primarily come from operations and maintenance (O&M) improvements such as, but not limited to: shutting off idling equipment, scheduling equipment more efficiently, eliminating compressed air leaks, lowering flowrates and operating pressures, and improving equipment sequencing. These savings may also be supplemented by implementing capital projects.

What range of savings is possible?

Savings vary by site, but 3-6% O&M savings is typical in the first year of SEM. Some sites have achieved more than 20% total energy savings at the end of year two.

**Let's see how SEM can work for you.**
Reach out to your Energy Smart Industrial Partner (ESIP) or electric utility representative.


Emerald People's Utility District


Bonneville
POWER ADMINISTRATION

Energy Smart Industrial is sponsored by Bonneville Power Administration and its Northwest Utilities.

DISCLAIMER: Terms and conditions apply. Actual savings will vary by customer's energy use and rate.

REV 02/20/2016 1.7

Data Center Resource Materials

TRANSFORM YOUR DATA CENTER

Energy Savings That Power Your Bottom Line



- Earn up to \$0.33/kWh of verified savings
- Achieve faster paybacks for efficient upgrades
- Reduce ongoing operational expenses
- Improve your Power Usage Effectiveness (PUE) metrics
- Strengthen your Environmental, Social, and Governance (ESG) performance

Your Partner in Data Center Excellence

Enhance your data center operations with technical support and utility rebates and incentives for qualifying new construction and retrofit energy saving projects. You can get paid to save energy while improving reliability and performance from your electric utility and the Bonneville Power Administration's Energy Smart Industrial (ESI) Program.

Contact your utility for specific eligibility details.

Energy Efficient Upgrades

Controls & Monitoring	IT Equipment
- Airflow management systems - Data center infrastructure management (DCIM) implementation - Real-time monitoring solutions	- Server consolidation - Storage optimization
Cooling Optimization	Power Infrastructure
- Free cooling solutions - High-efficiency computer room air conditioning and air handling (CRAC/CRAH) units - Hot/cold aisle containment - Variable speed drives for fans and pumps	- Advanced power distribution - High-efficiency engine heaters - High-efficiency uninterruptible power supply (UPS) systems - Smart power distribution units (PDUs) - Transformer upgrades



4 Easy Steps

- 1 Confirm Eligibility**
Contact your utility for eligibility and available incentives.
- 2 Project Design**
The ESI team can conduct a scoping or project assessment and report the energy efficiency measures with detailed price quotations for your experts to prepare a detailed design.
- 3 Implementation**
Once the project design is received, you choose the qualified contractor to implement the plan successfully.
- 4 Verification**
The ESI team verifies the savings based on your project's design, while your utility processes the incentive payment.

“ I was really impressed with the skills the ESI team brought to the table. They knew exactly what to monitor and check. They handled the proposal and the incentive paperwork. And they made sure the process was fast and seamless.”

Regional Manufacturing Manager

Why Act Now?

- ✕ Rising energy costs
- ✕ Growing pressure for sustainability
- ✕ Competitive advantage in your market
- ✕ Incentives are available from your public utility!

Get Started Today

Contact your utility or Energy Smart Industrial Partner.




Energy Smart Industrial


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POWER ADMINISTRATION

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FOCUS ON FRESH TASTE, NOT ENERGY WASTE

New plant saves millions from facility-wide projects



Project Overview



Reser's Fine Foods production plant in Pasco, Washington.

Reser's Fine Foods built a new production plant in Pasco, WA. From the early stages of design, Reser's and their consultants partnered with ESI to ensure an optimally efficient design. Since, they have continued their energy efficiency progress with a range of additional projects.

Refrigeration

Reser's included a heat recovery system and upgraded essentially every component of the refrigeration system including efficient compressors, evaporators, condensers, and chillers.

Lighting

Reser's installed efficient LED lighting throughout both office and production spaces.

Equipment

And Reser's upgraded many of the water pumps, boiler fans, and an air compressor to variable speed.

Annual Results



7,180,000 kWh
First Year Savings



\$360,000
Avoided Energy Cost



3,340 Tons CO₂
Scope 2 Emission Reduction

A HEALTHY HARVEST OF ENERGY SAVINGS

A blend of SEM and capital projects reaps rewards

Project Overview

In 2023, the Lamb Weston vegetable processing plant in Paterson, WA completed several efficiency projects with Benton REA and Energy Smart Industrial. The plant completed a 2-year Strategic Energy Management (SEM) engagement, installed a VFD air compressor and cycling refrigerated dryer, installed VFDs on many pumps throughout the plant, and upgraded a pneumatic conveying system to a mechanical conveying system.



Lamb Weston received nearly \$68,000 in rebate incentives from Benton REA.

Optimized Settings

The plant identified the low-cost opportunity to raise the freezer suction pressure. This allows the refrigeration compressors to use less energy without impacting the space temperature.

Upgraded Compressor System

The plant installed a VFD compressor that improved part-load efficiency and an air dryer that cycles on/off based on demand.

Added Pump VFDs

As part of plant-wide electrical upgrades, the plant installed VFDs on many pumps that had previously been throttled and ran continuously at full speed.

Lamb Weston

Annual Results

830,800 kWh
First Year Savings

\$41,500
Avoided Energy Cost

386 Tons CO₂
Scope 2 Emission Reduction



What ideas do you have to save energy?

John Timmons, Lamb Weston, 509.875.2734
Chad Smith, Benton REA, 509.781.6727
Austin Rogers, ESI Partner, 425.417.8532

“RUN-AROUND” FOR ENERGY SAVINGS

Strategic Energy Management and Capital Projects Help Save Energy

Project Overview



The Uranium Recovery Facility's HVAC unit with exhaust heat recovery loop.

HVAC is a critical system at Framatome's new Uranium Recovery Facility, but their energy team has been committed to sustainable operation and helped drive down the operating costs through energy efficiency.

Added Exhaust Heat Recovery

The “run-around” loop uses exhaust air to pre-heat the outside air intake in the winter and to pre-cool the intake in the summer, achieving energy savings year-round. The energy team fine-tuned the heat recovery controls during an SEM cohort to maximize energy savings.

Installed Fan VFDs

Variable frequency drives (VFDs) on the facility's fans ensure that airflow and pressure requirements are met efficiently.

framatome

Annual Results

336,000 kWh
First Year Savings

\$15,000
Avoided Energy Cost

156 tons CO₂
Scope 2 Emission Reduction

What ideas do you have to save energy?

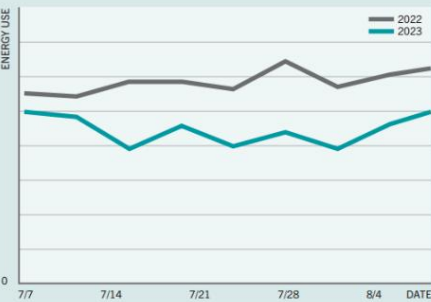
Dawn Senger, City of Richland, 509.942.7436
Austin Rogers, ESI Partner, 458.212.3740



A SMARTER WAY TO KEEP IT COOL

Custom refrigeration projects bring more savings than expected

Project Overview



FruitSmart operates a fruit processing plant and a cold storage in Prosser, WA. In 2023, they implemented several projects to improve refrigeration energy efficiency. The installed measures produced a substantial drop in year-over-year energy—more than originally estimated.

Controls Upgrade

Installing a central refrigeration control system enables more efficient operation in addition to being a huge time-saver for the refrigeration team as they are able to monitor from their office and even after hours from home.

Condenser and Evaporator Fan VFDs

The VFDs allow the fans to run smoothly at lower speeds and lower power rather than cycling fans on and off. This also improves cold storage temperature control.

FruitSmart

Annual Results

+1 Million kWh
First Year Savings

90 Avg. NW Homes
Powered by Energy Saved

716 tons CO₂
Scope 2 Emission Reduction



What ideas do you have to save energy?

Elton Brown, FruitSmart, 509.882.9956
Terry Mapes, Benton PUD, 509.582.1268
Austin Rogers, ESI Partner, 425.417.8532

ENERGY SAVINGS REPORT

Capital Projects Improve Energy Efficiency and Future Capacity



Project Overview



TOP LEFT: Recirculating pump VFDs. TOP RIGHT: Membrane skid. BOTTOM LEFT: One of the two installed turbo compressors. BOTTOM RIGHT: Incentive grant check ceremony image provided by the Sunnyside Sun.

The Port recently increased the capacity of their industrial wastewater treatment plant, investing in an energy-efficient design to lower operating costs.

Upgraded Turbocompressors

This project consisted of replacing five positive displacement lobe blowers with two more efficient Sulzer HST 350 hp turbocompressor blowers. And with the addition of variable frequency drives (VFDs) on the turbocompressors even greater efficiency was achieved.

Efficient Filtration Design

The Port was presented with several design options and ultimately invested in a system that enables the pumps to meet flow requirements with less energy than alternative designs. In addition, VFDs increase the efficiency of the pumps during operation, maximizing system energy savings.

Annual Results

+2,200,000 kWh
First Year Savings

+\$110,000
Avoided Cost

+1,000 tons CO₂
Scope 2 Emission Reduction

What ideas do you have to save energy?

Travis Jansen, Port of Sunnyside, 509.839.3187
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Energy Smart
Industrial

Custom Project Lead Time

Average time between CPP and CR approval
360 days

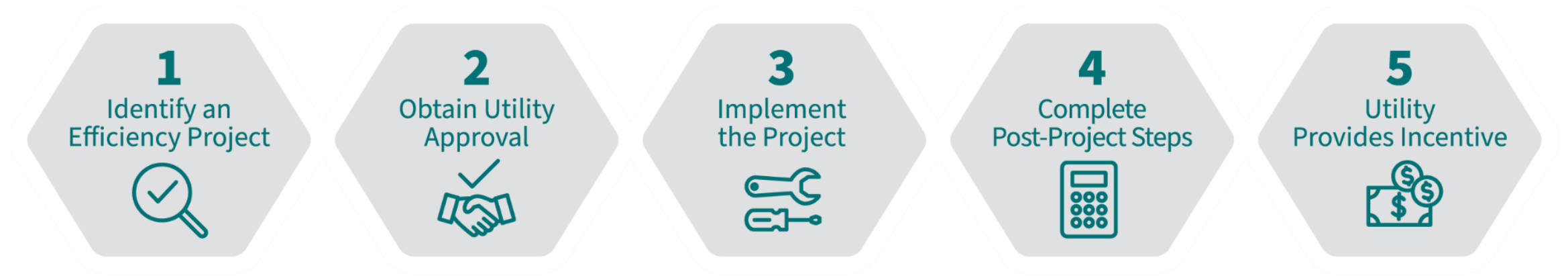


Includes data collection,
analysis, and Completion Report



Utility review
and submittal

ESI Custom Project Process



#1 – Call us when you hear about an opportunity
#2 – Share Customer List with ESIP

Project Lead Reminder

Let your ESIP know about project leads: new construction, expansions, etc.

Spring 2025 M&V – 2.3M kWh

NonStopLOCAL NEWS WEATHER TRAFFIC SWX SPORTS KNDU PROS KNDU PROS

Watch Walla Walla vs. Hanford baseball here beginning at 5:00 p.m.

Pasco celebrates opening of innovative wastewater facility

Steven Hogenkamp NonStop Local Multimedia Journalist Mar 22, 2025 Updated Apr 6, 2025



Image of the model scale of the Process Water Reuse Facility (courtesy: PWRP)

Local Weather

Currently in Kennewick Sunny 69° 72° / 53°

8 PM	9 PM	10 PM	11 PM	12 AM
65°	60°	57°	54°	52°

7-Day Radar Alerts

Most Popular

ARTICLES

- Richland Police investigating deadly crash on Columbia Park Trail
- Goodyear recalls certain Cooper Discoverer tires due to safety concerns
- Boat marina in Richland must be removed for salmon habitat project
- Kennewick Police in search of WinCo shoplifting

2026 – 2027

THE NEWS TRIBUNE

NEWS RESTAURANTS STATE SEAHAWKS SPORTS GAMES OBITUARIES FINANCE CLASSIFIEDS BEST OF PIERCE CO.

months for only \$1.99! Take advantage of this exclusive limited-time offer. **SUBSCRIBE NOW**

\$280M project would expand seafood company's operations in Tacoma. Here's what we know

By Debbie Cockrell
Updated April 2, 2025 8:24 AM



FATHOM SEAFOOD

An image shared by Fathom Seafood shows what the buildings will look like at a proposed processing and cold storage facility at the Port of Tacoma. *Fathom Seafood*

Thank you!





Program Overview

October 2025



Comfort Ready Home is funded by Bonneville Power Administration and Northwest Utilities.





**ComfortReady
HOME**



Homeowners



Contractors



Utilities

Comfort Ready Home | Field Team



1
Miesha Yagle
NW Washington
Olympic Peninsula



2
Nick Phillips
SW Washington



3
John DeLance
NW Oregon



4
Aaron Lazelle
NE Washington
Northern Idaho



5
Mike Stothers
Central Oregon
Southern Oregon
Northern California



6
Scott Mayfield
Montana



7
Dean Paler
Southern Idaho
Nevada
Wyoming



John Heflin
Outreach Specialist



Mike Hughes
Field Services
Manager



Cyrus Collins
Program Manager

About the Program

Comfort Ready Home is a partnership between Bonneville Power Administration and its customer utilities.

Our goal is to increase the number of residential energy-efficient insulation, windows, HVAC, and water-heating installations in the Northwest.

We aim to achieve this by connecting homeowners, contractors and utilities and providing each with the tools, resources, and support they need to prioritize energy efficiency.

BETWEEN JULY 1, 2024, AND JUNE 30, 2025, WE:



Helped
2,300
end users find nearby
qualified contractors



Received
141K
views on
Youtube



91
utilities
supported



64K
website views



Enrolled
519
contractors



Trained
827
contractors and
utility staff in
person



Rewarded
396
heat pump water
heater installations



Hosted
13
workshops

Take Advantage of the Contractor Search



CONTRACTOR FINDER

Get quotes or schedule service with trusted weatherization, water heating and HVAC professionals.

Enter your ZIP Code to see a list of installers near you.

Zip: 59803

Search



Missoula Electric Cooperative
Northwest Montana

HEAT PUMP WATER HEATER

Showing 1 to 2 of 2

See All - Print



Andersons Heating, Air Conditioning and Plumbing Inc
Northwest Montana, Southwest Montana
(406) 728-8048

CONTACT



We at Anderson's specialize in energy efficient heating and cooling.
Geothermal Heat Pumps, Air Source Heat Pumps and Mini Split [More Details](#)

Services Offered: Air Sealing Services, Ducted Heat Pumps, Ductless Heat Pumps, HPWH, Plumbing Services, PTCS Air Source Heat Pumps, PTCS Duct Sealing, Residential HVAC Installation

Temp Right Services
Northwest Montana, Southwest Montana
4067281111

CONTACT



[More Details](#)

Services Offered: Air Sealing Services, Building maintenance, Ducted Heat Pumps, Ductless Heat Pumps, HPWH, Plumbing Services, PTCS Air Source Heat Pumps, PTCS Duct Sealing, Residential HVAC Installation

On-Site Workshops



Small group contractor trainings.

Heat Pump Water Heaters.

Home as a System.

Wall Insulation.

Heat Pump Best Practices.

Duct Sealing Best Practices – NEW!



On-Demand Training



**Become an expert.
Earn free CEUs today!**

CCB, BPI and AIA Continuing
Education Credits available.

Choose from .25, .50, 1-unit CEU courses.



Learning Center

- Cold Climate Heat Pumps
- Manufactured Home Insulation
- Site Built Wall Insulation

- Insulating Sloped Ceilings
- Attic Insulation
- Floor Insulation



Simple and Effective Floor
Insulation



Heat Pump Water Heater
Opportunities + Installation
Considerations (CRH-EiQ215)



Making the Most of HVAC
Opportunities

Training and Educational Videos





Comfort Ready Home
34 subscribers

SUBSCRIBED

HOME

VIDEOS

PLAYLISTS

CHANNELS

ABOUT

Q

>

Uploads

SORT BY



Blower Door Test: Setting up to Depressurize a Home
53 views • 3 weeks ago



Indoor Air Quality: Calculating and Testing...
52 views • 1 month ago



Testing a Home for Air Leakage
147 views • 3 months ago



Energy Efficiency Sales: How to Ruin a Sale
37 views • 7 months ago



Energy Efficiency Sales: Walkthrough
20 views • 7 months ago



Energy Efficiency Sales: Ask/Observe Stage
26 views • 7 months ago



Energy Efficiency Sales: Agree Stage
21 views • 7 months ago



How Ventilation and Filtration Make a Healthy Home
150 views • 1 year ago



Weatherize Your Home to Keep Unhealthy Air Out
183 views • 1 year ago



Protecting Your Home from Wildfire Smoke
567 views • 1 year ago

Customizable Video – Rebate Roundup



Module Options

- Introduction
- Heat Pump Water Heaters
- Ductless Heat Pumps
- Air Source Heat Pumps
- Insulation
- Duct Sealing
- Windows
- Multifamily
- Outro





BUILDING A STRONGER PROGRAM



The 2025 Contractor Survey

- Contractors who engage with Comfort Ready Home are highly satisfied.
- Overall awareness and usage of services is around 50%.
- We need to continue building pathways that make the Program more visible.
- 97% of respondents who used the Program's training and technical resources reported a positive experience.
- 71% of participating plumbers said the Greener Water Heater Promotion helped them sell more heat pump water heaters.
- 8 contractors began offering HPWHs for the first time.
- Contractors want help reaching customers and rebate information.

LOOKING FORWARD

The Comfort Ready Home program is built upon a strong foundation of technical expertise and customer service. This has allowed us to expand and improve the support provided to utilities and contractors through the last year.

Looking ahead, we will continue to focus on providing and improving on our existing offerings, while also expanding to meet the changing needs of utilities and contractors.

Goals for 2025–2026 include:

1

**Engage 95 utilities
in the Utility
Program Plan
process**

2

**Provide 10 trainings
throughout the
region**

3

**Help utilities,
contractors, and
end-users navigate a
changing incentive
landscape**

4

**Reach 150,000 users
via the Program
website and
YouTube channel**

5

**Develop Duct Seal
Best Practices small
group workshop
curriculum**

We're excited to build on the progress made over the past year and to continue providing valuable resources and expertise to our utility and contractor partners.

Thank You!

Please contact your
Energy Efficiency Representative

or

Cyrus Collins

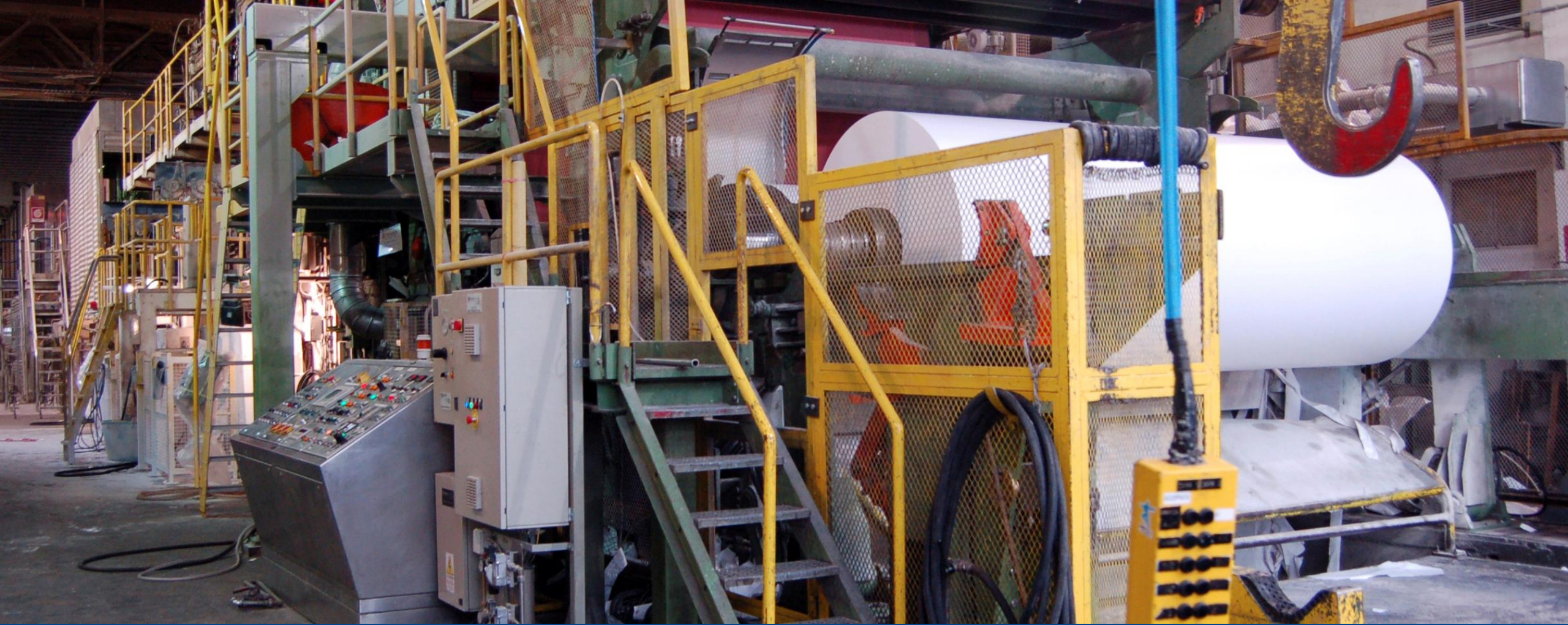
Program Manager

cyrus.collins@evergreen.energy

(503) 705-7039



Comfort Ready Home is funded by Bonneville Power Administration and Northwest Utilities.



Custom Projects: Best Practices and Lessons

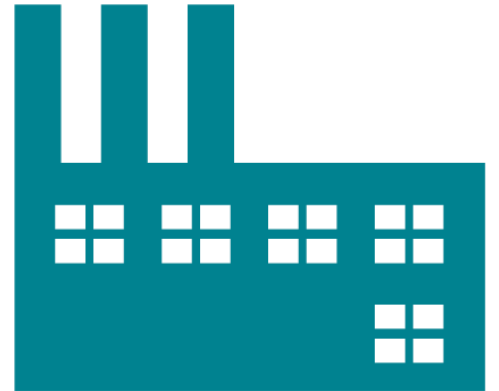
UTILITY ROUNDTABLES 2025

Oct. 15-16, 2025

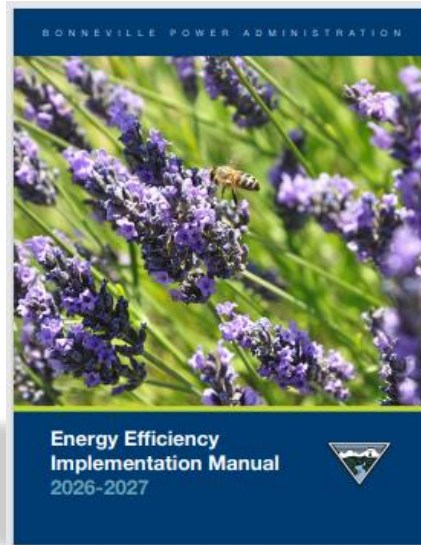


Custom Project Overview

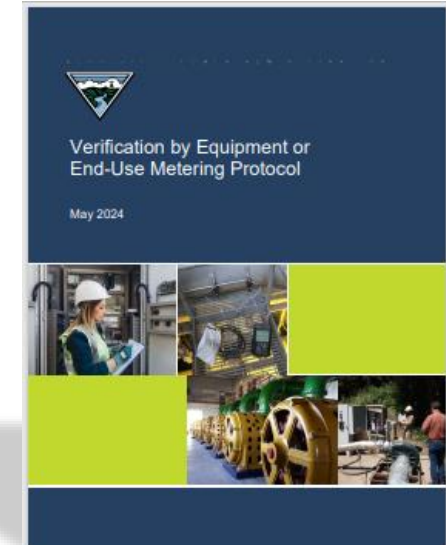
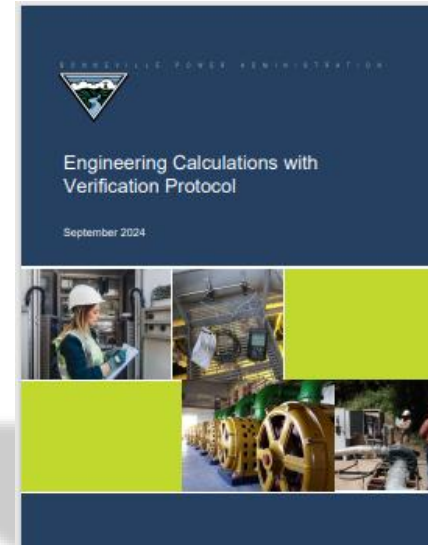
- Unit Energy Savings (UES) vs. Custom.
- Commercial versus Industrial.
- General Requirements.
- Custom Project Process.
- Project Success Story.
- Energy Smart Industrial (ESI).



UES vs Custom



- Standalone measures – Pre-determined Savings & Incentives are on a per-unit basis.
- If eligible, UES is required instead of custom project.
- Streamlined to be quick and easy.
- BEETS bulk upload.



- Site specific savings.
- Work with BPA Customer Service Engineer or Energy Smart Industrial Partner (ESIP).
- May require energy audit and/or billing analysis.
- Entered in BEETS by CSE or ESIP.

Commercial vs Industrial

- Office, retail, and assembly.
- Grocery and food service.
- Hospital and healthcare.
- Jails and prisons.
- K-12 schools and higher education.
- Lodging, residential care, and dormitories.
- Institutional buildings (i.e., government, fire station, municipal library, etc.).
- Warehouses (except manufacturing and refrigerated process loads).



**NOT SURE?
Contact your
EER!**

- Manufacturing plants.
- Municipal utility services water supply and wastewater treatment.
- Wood and paper products industry.
- Food processing.
- Chemical processing.
- Data centers and some telecom facilities.
- Mining.
- Transportation and rail infrastructure.
- District Heating & Cooling systems.

CONTACT YOUR CSE!

CONTACT YOUR ESIP!

General Requirements

- No fuel switching, exception for major renovation projects with new all-electric baseline.
- Limited to one sector per project.
- Cost-effectiveness screen benefit/cost (B/C) ratio.
- None if $\leq 200,000$ kWh ($\leq 800,000$ kWh for Utility Distribution).
- B/C ratio must be ≥ 0.50 if $> 200,000$ kWh ($> 800,000$ kWh for Utility Distribution).
- Provide incremental or total cost documentation.



Custom Process

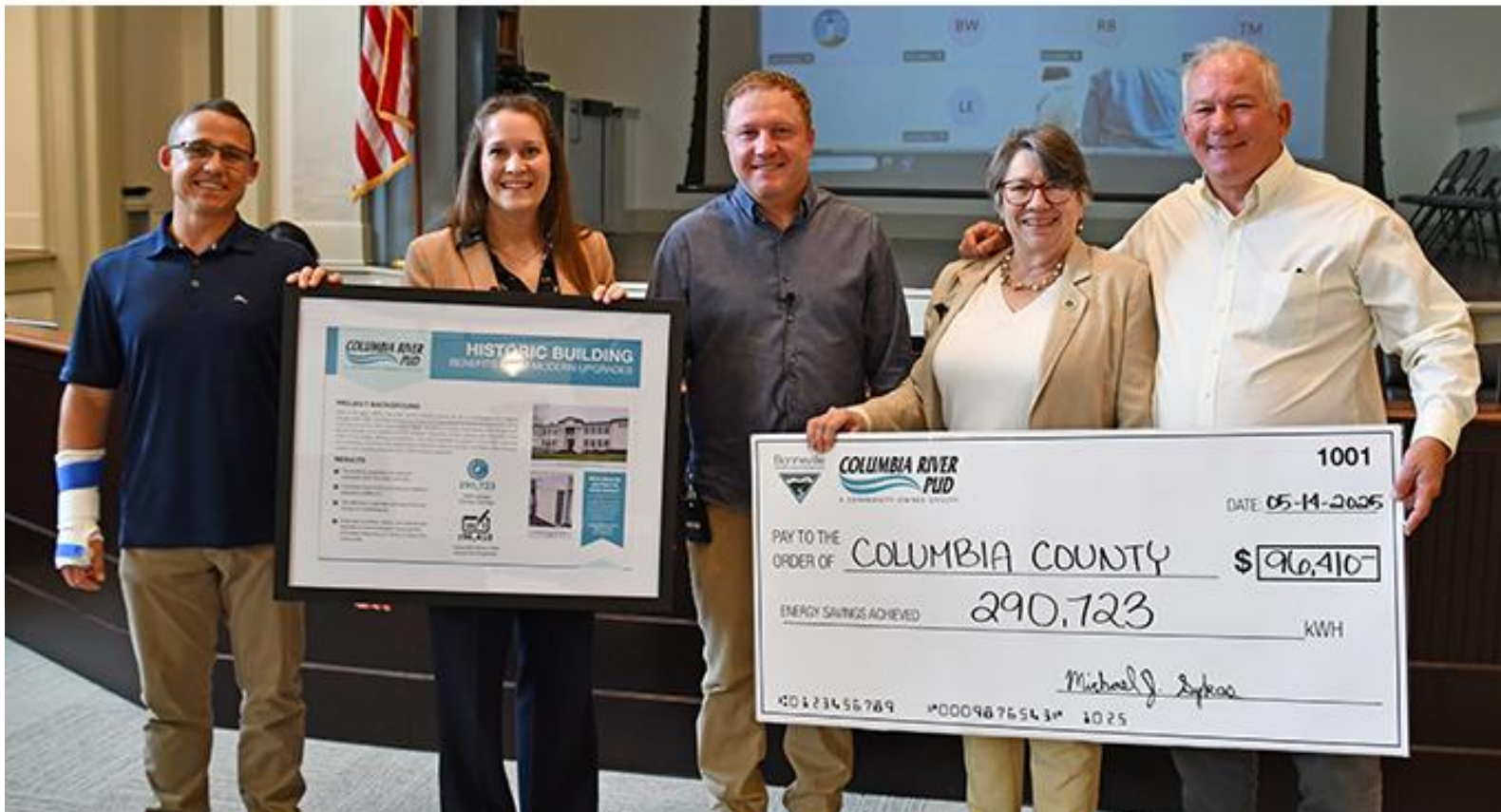
1. Identify the project.
2. Contact your Customer Service Engineer (CSE) with details.
May conduct energy audit, metering, and bill analysis.
3. Obtain project cost documentation.
4. End-user determines if the project moves forward and CSE enters project proposal in BEETS.
5. Implement the project.
6. CSE enters completion report in BEETS.
May include metering, billing analysis, and modeling of savings.
7. BEETS workflow: Utility and BPA reviews and approval.
8. Submit invoice.

SUB - # 34 WinCo Foods = 652,795 kWh/yr



Custom Project Success Story

Energy efficiency upgrades breathe new life into 106-year-old historic St. Helens building



BPA awarded CRPUD \$96,410 Energy Efficiency incentive payment for the John Gumm Building Renovation project

From left to right:

Mike Arend, CRPUD Energy Services

Columbia County Commissioners: Kellie Jo Smith, Casey Garrett, and Margaret Magruder

Michael Sykes, CRPUD GM

Major Historic Renovation



B O N N E V I L L E P O W E R A D M I N I S T R A T I O N

Major Historic Renovation

HIGHLIGHTS

- Built in 1919 listed in the National Register of Historic Places.
- 30,000 square feet (SF), two-stories with basement.
- \$13.9 Million renovation cost.
- Ameresco Energy Services Co.
- Emerick Architects.
- Bremik Construction.
- Chosen Wood Windows.



COLUMBIA RIVER PUD
A COMMUNITY-OWNED UTILITY

HISTORIC BUILDING

BENEFITS FROM MODERN UPGRADES

PROJECT BACKGROUND

Built in the early 1900's, the John Gumm building served as the schoolhouse in St. Helens, Oregon until 1999. Columbia County purchased and remodeled the treasured historical building now known as the John Gumm Civic Office. As part of a larger multi-phase effort to enhance the functionality and capacity of their facilities, Columbia County worked with Columbia River PUD to find energy efficiency incentives. The utility identified a variety of attainable upgrades and incentives including high performance windows, lighting retrofits, insulation, heat recovery system, and variable refrigerant flow HVAC system upgrades.

RESULTS

- The building upgrades will save an estimated 266,582 kWhs annually.
- Columbia River PUD provided an incentive payment of \$96,410.
- The efficiency upgrades will save time and money on maintenance.
- Improved workflow, safety, and operational flexibility to accommodate future growth, ultimately improving our ability to serve the community.



290,723.67
kWh Annual
Energy Savings



\$96,410.28
Columbia River PUD
Incentive Payment



John Gumm building exterior with new windows



New variable refrigerant flow HVAC system

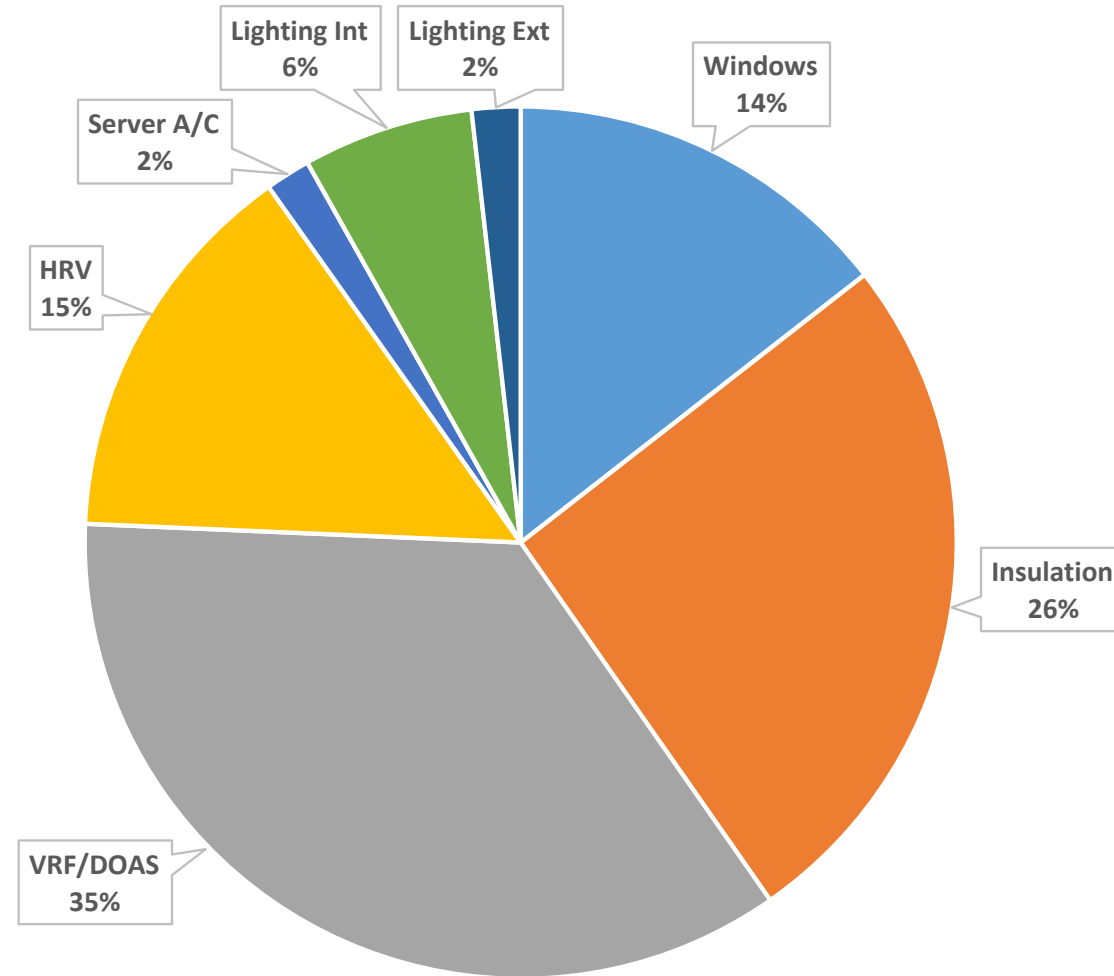
What ideas do you have to save money?

Columbia River PUD offers multiple energy efficiency incentives for residential, commercial and other types of customers.

Columbia River PUD
(503) 397-1844
www.crpud.net

Energy Savings Summary

ENERGY SAVINGS	SITE	BUSBAR	INCENTIVE
EEM-1 Windows	38,578	42,072	\$ 16,828.66
EEM-2 Wall & Attic Insulation	68,856	75,092	\$ 30,036.77
EEM-3 VRF with DOAS	94,333	102,876	\$ 31,891.44
EEM-4 HRV	38,672	42,174	\$ 13,074.06
EEM-5 Server room A/C	4,448	4,851	\$ 1,503.77
EEM-6a Lighting Interior	16,895	18,425	\$ 2,395.25
EEM-6b Lighting Exterior	4,800	5,235	\$ 680.51
TOTAL = 46.7% Reduction	266,582	290,724	\$ 96,410.46

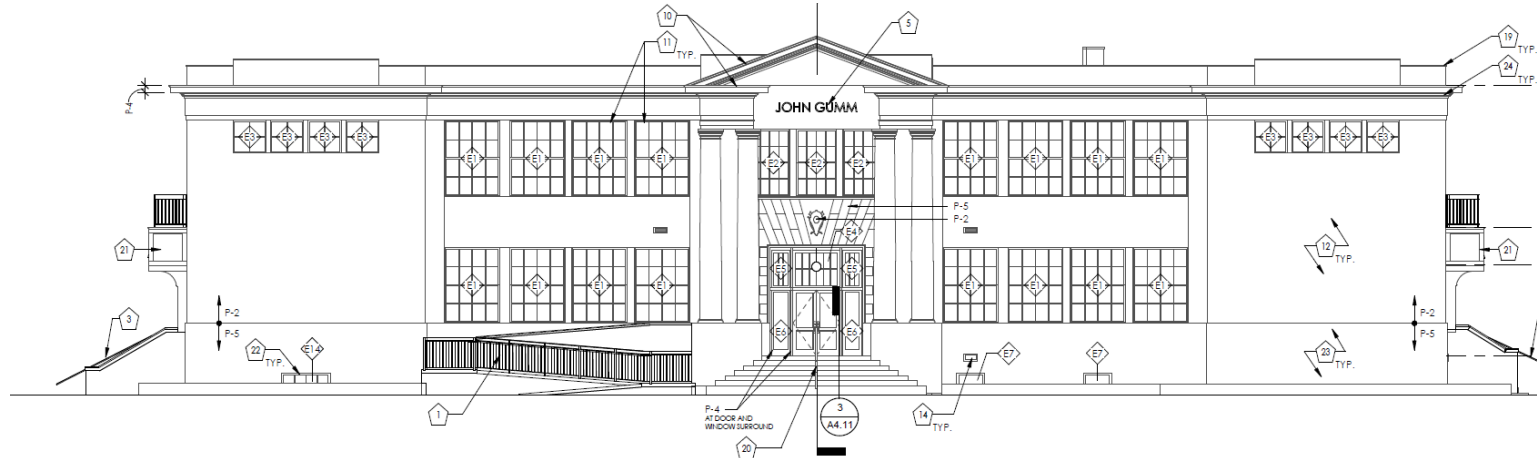


Window Secondary Glazing Units

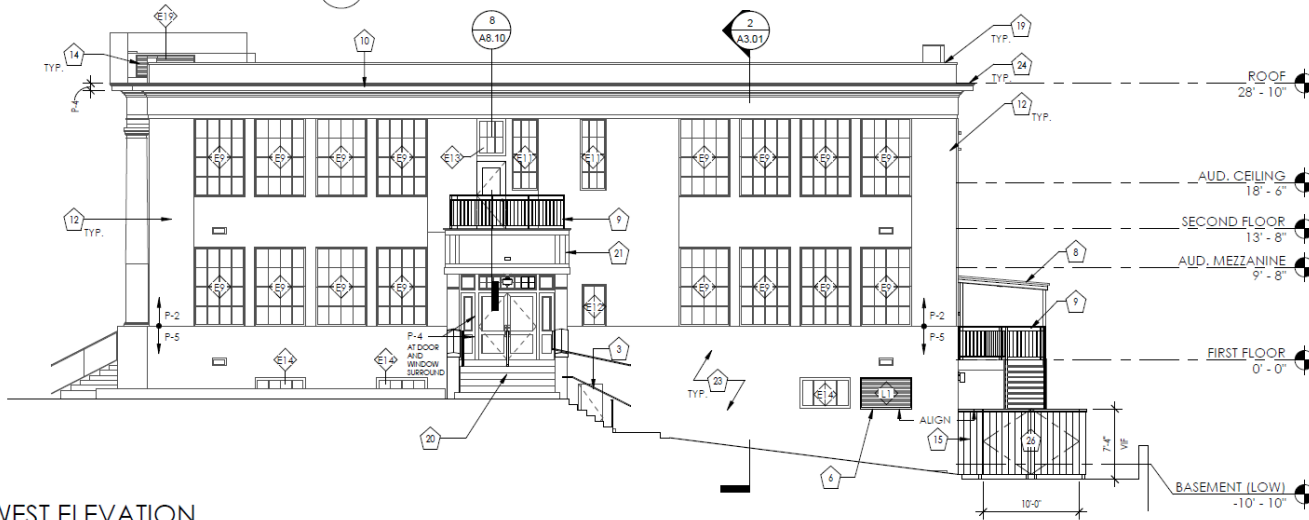


- Existing single-pane wood windows U-Value = 1.0.
- New Interior Secondary Glazing Units U-Value = 0.19, SHGC = 0.26.
- Interior Secondary Glazing units = 2,576 SF.

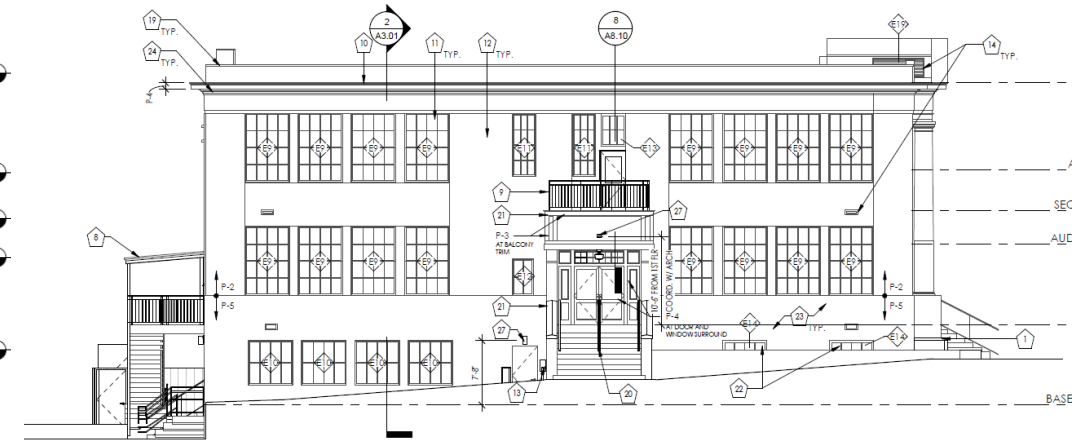
Window Secondary Glazing Units



1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



1 WEST ELEVATION
SCALE: 1/8" = 1'-0"



2 EAST ELEVATION
SCALE: 1/8" = 1'-0"

Insulation Upgrades



- Wall insulation upgraded from existing R-2.5 to R-15.6.
- Attic insulation upgraded from existing R-10 to R-49.
- Floor joist insulation upgraded from existing R-3.5 to R-30.

Variable Refrigerant Flow HVAC



- (Two each) 12-ton outdoor Variable Refrigerant Flow (VRF) units with heat recovery.
- (24 each) ducted indoor VRF fan-coil units.
- (Five each) ductless indoor VRF ceiling cassette units.

DOAS with Heat Recovery Ventilator

Dedicated Outdoor Air System (DOAS)

- 4,400 cfm unit with 64.1% sensible recovery effectiveness.

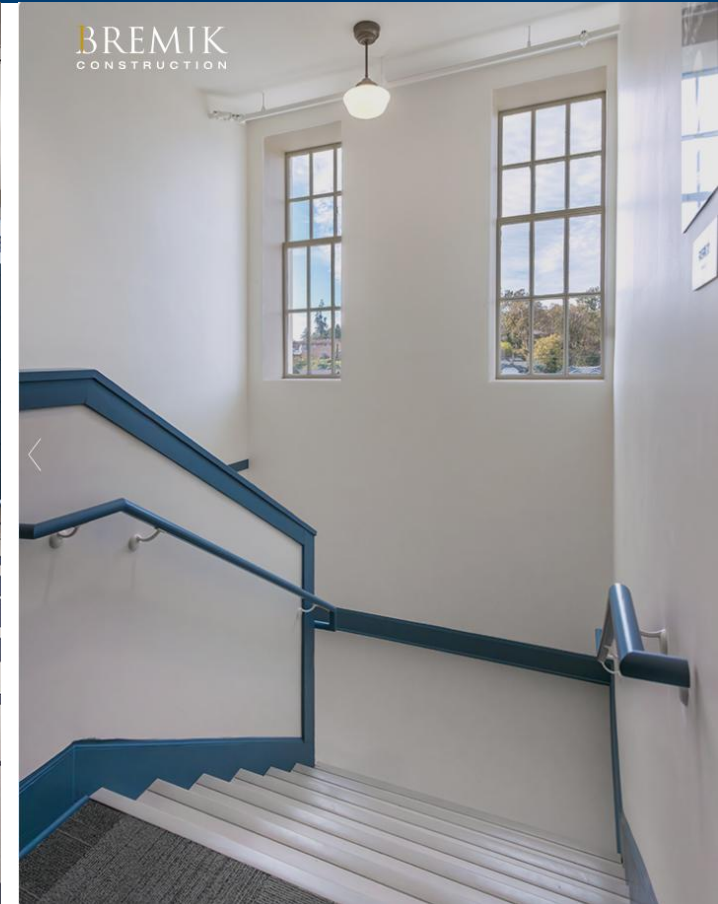


Server Room A/C



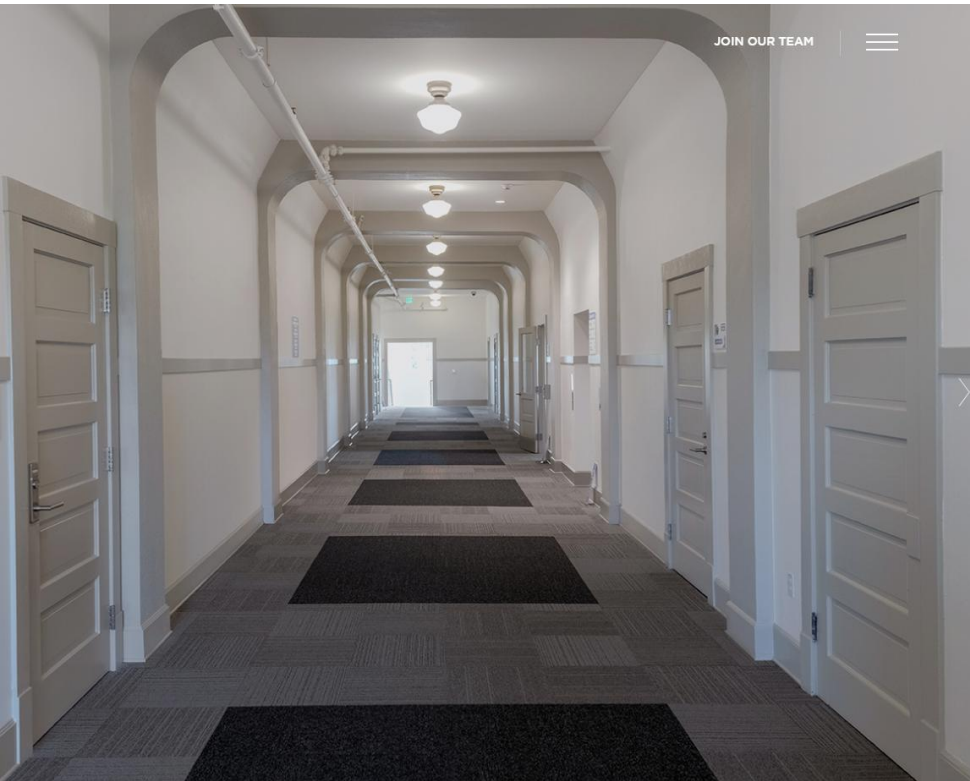
- One-ton ductless heat pump (cooling only) with SEER 22.
- Code required SEER 13.

Interior LED Lighting



- Code Allowable Lighting Power Density = 0.64 watts/ft².
- Proposed Lighting Power Density = 0.43 watts/ft² 33% BETTER THAN CODE.

Interior LED Lighting



Exterior LED Lighting

- Code Allowable Lighting Power = 1,756 watts.
- Proposed Lighting Power = 767 watts.
- 56% BETTER THAN CODE.



Phase 2 - Solar PV and Battery Storage

OREGON DEPARTMENT OF ENERGY GRANT PROGRAM SUPPORTS RENEWABLE ENERGY AND ENERGY RESILIENCE DEVELOPMENT ACROSS THE STATE

Columbia County | Construction Resilience | \$992,116

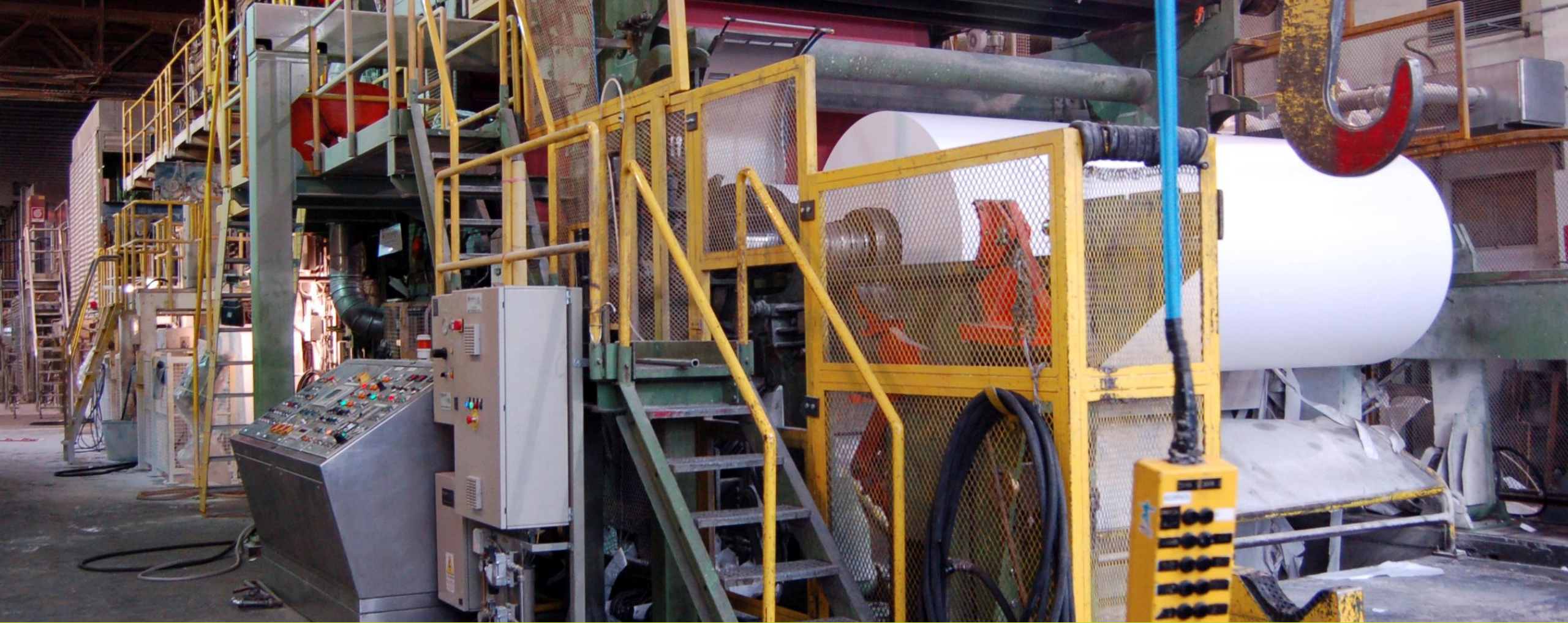
Construction of a net-metered 32kW PV solar system with 125kW battery storage and backup power circuitry for county operations in the John Gumm building.

This project is part of a larger multi-phase effort by Columbia County to modernize its facilities. Future plans include the addition of rooftop solar panels and battery storage, reinforcing Columbia County's dedication to sustainability and climate resilience.

Questions and Discussion



B O N N E V I L L E P O W E R A D M I N I S T R A T I O N



Energy Smart Industrial Projects Spotlight

Jeff Bernacki, ESIP

Oct. 15-16, 2025



Overview

Project Spotlights

- Review the project details.
- Highlight the energy savings.
- Discuss **Lessons Learned** for future projects/opportunities.

#1 – Superior Steel Fabrication

- 2 x VFD Air Compressor Upgrade.



#2 – Rosboro Lumber Springfield

- Wood Chipper Decommissioning.



#3 – Grain Millers

- Spiral Valve Compressor Upgrade.

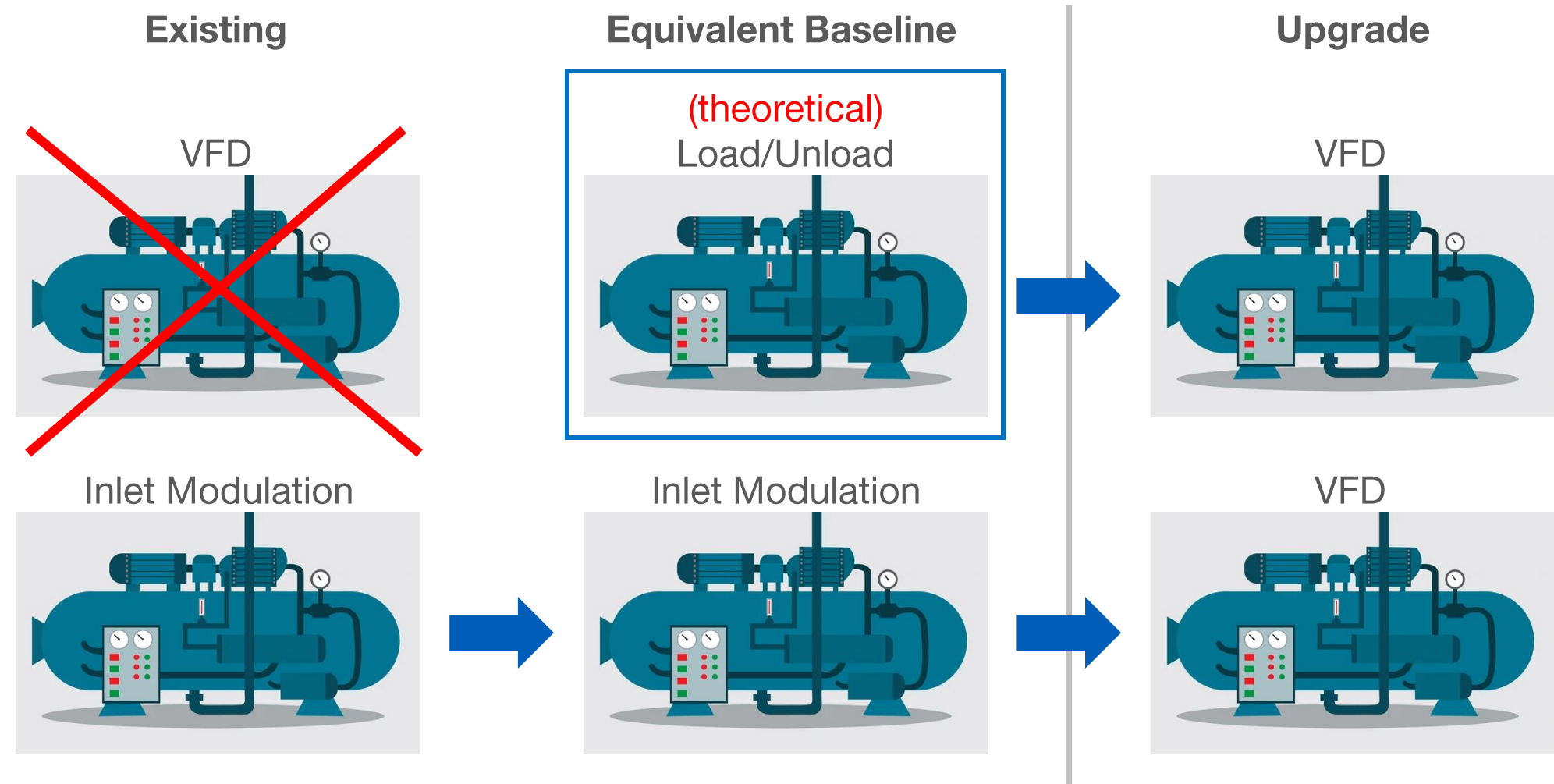


#4 – City of Ashland Wastewater Treatment Plant (WWTP)

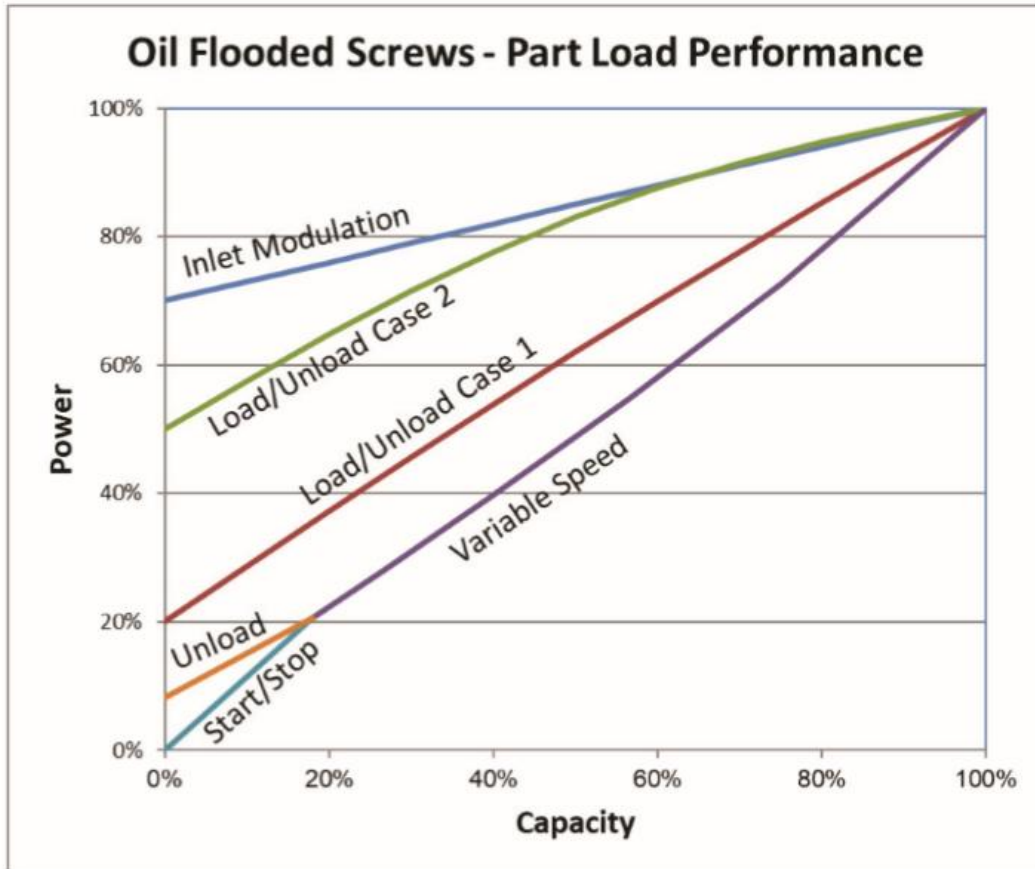
- UV Disinfection System Upgrade.



#1: Superior Steel – VFD Air Compressors



#1: Superior Steel – VFD Air Compressors



Advantage of Load/Unload Control

- These compressors are more efficient at part-load.
 - See Power graph on the left.

Efficiency Standpoint

- It makes sense to choose Load/Unload as the theoretical baseline.

Energy Savings = 262,861 kWh



#1: Superior Steel – VFD Air Compressors



Disadvantage of Load/Unload Control

- These compressors need sufficient air receiver tanks.
 - The site did not have enough air storage.

Practical Standpoint

- It does not make sense to choose Load/Unload as the theoretical baseline.

Energy Savings = ~~262,861 kWh~~ →



#1: Superior Steel – VFD Air Compressors



Energy Savings (Unreasonable Baseline) = ~~262,861 kWh~~

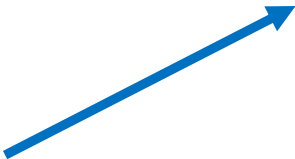
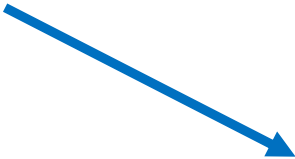
Energy Savings (New Baseline) = 830,185 kWh

LESSONS LEARNED

- Major Renovation projects have complexity in defining a theoretical baseline.
- Choosing the correct baseline can have a significant impact in energy savings.
- Inlet modulation produced 216% more savings.
 - More accurate based on what the site would have done.



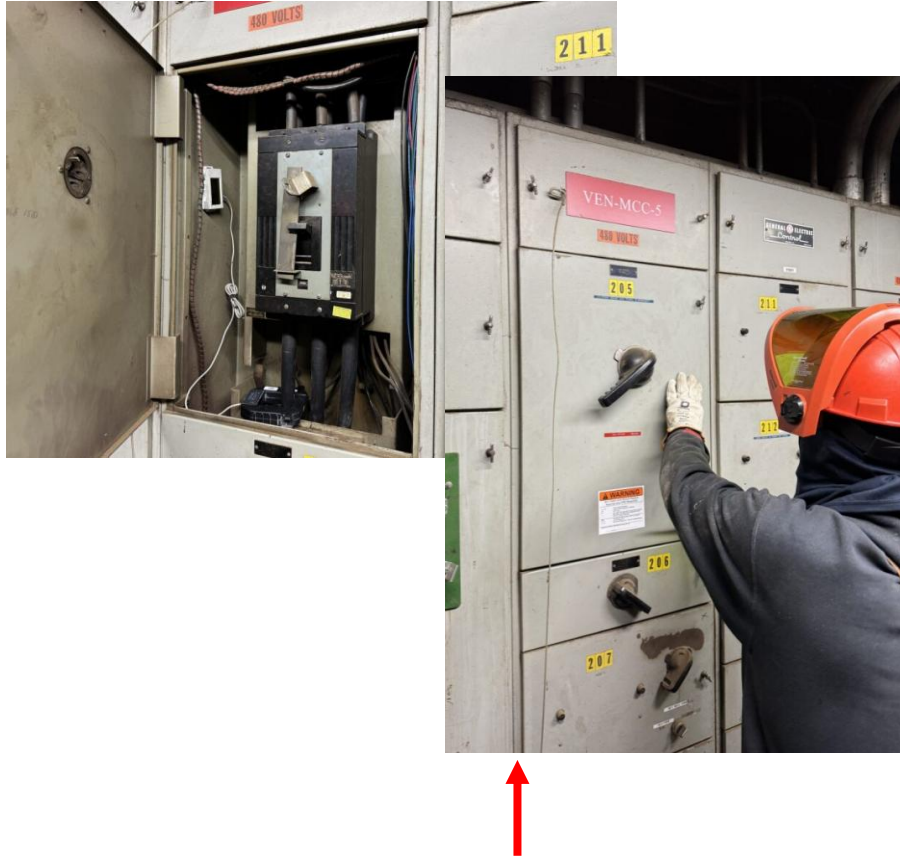
#2: Rosboro Lumber – Chipper Decommissioning



SAVE ENERGY!



#2: Rosboro Lumber – Chipper Decommissioning



ESI worked with the site's electrician to install data loggers on the chippers and analyze power data

Baseline Power (2 x Chippers) = 144 kW

Upgrade Power (1 x Chipper) = 90 kW

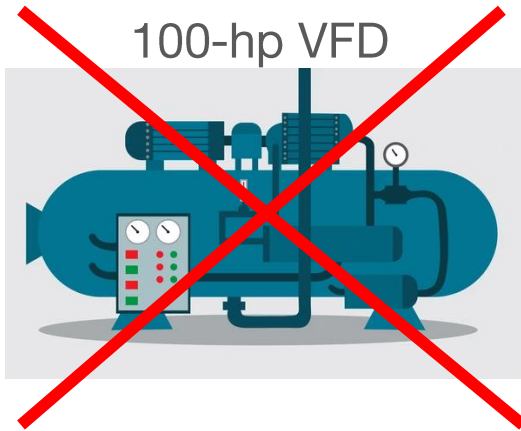
Energy Savings = 109,016 kWh

LESSONS LEARNED

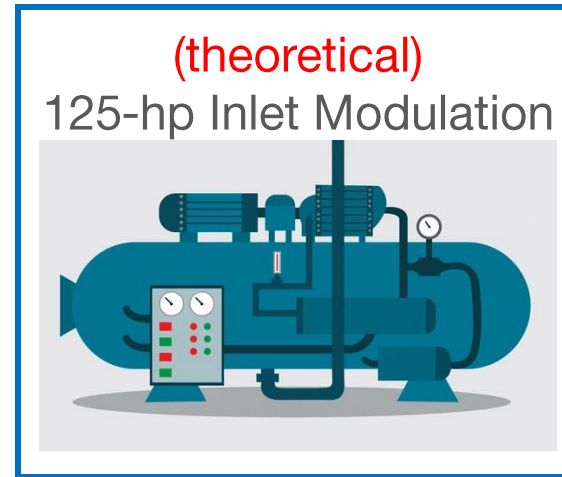
- ESI is willing and able to come on site and set up data loggers on equipment of interest.
- Energy efficiency can come in the form of removing equipment without adding anything new.
- The site will save \$7,600/yr by removing the old chipper.

#3: Grain Millers – Spiral Valve Compressor

Existing



Equivalent Baseline



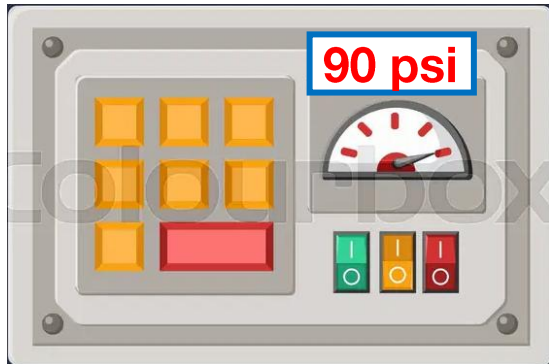
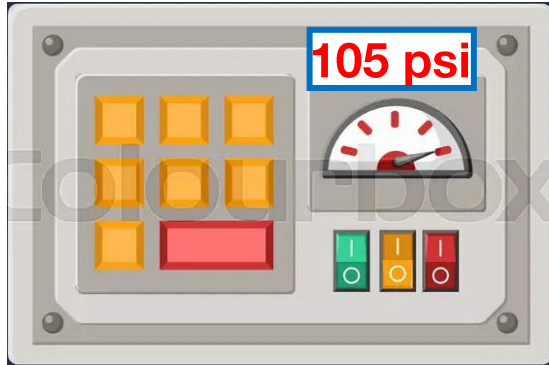
Upgrade



- Previously existing VFD compressor failed, not worth repairing.
- Site chose spiral valve compressor, as it is better in harsh environments.
- Vendor specified inlet modulation as the baseline compressor.



#3: Grain Millers – Spiral Valve Compressor



Energy Savings

12,546 kWh



76,895 kWh

LESSONS LEARNED

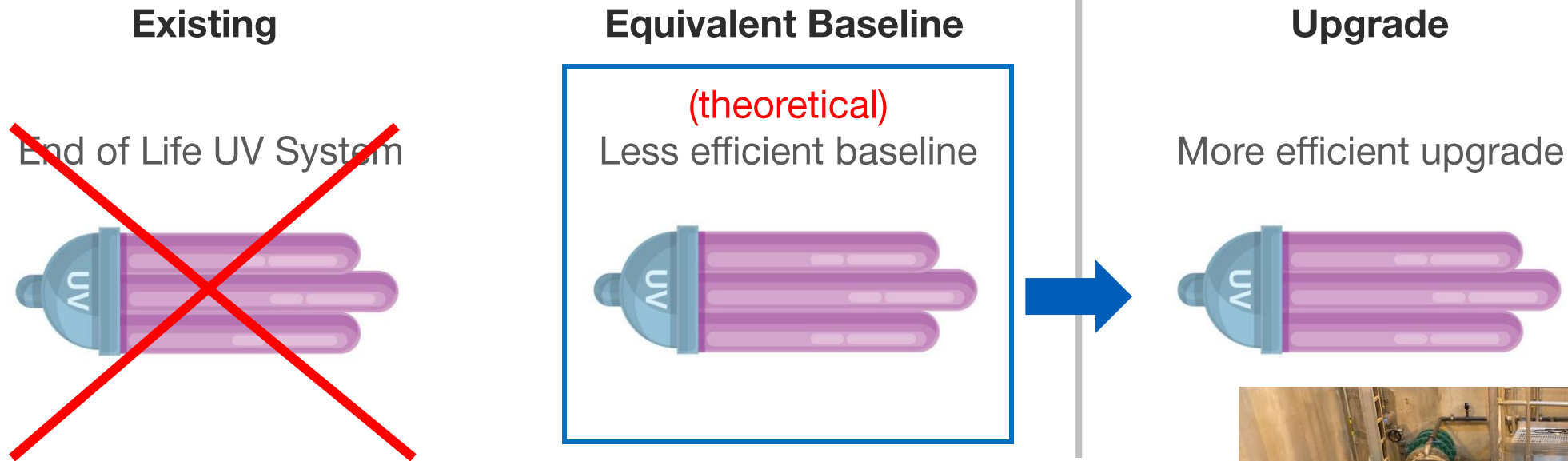
- ESI's influence helped the site reduce its discharge pressure and save more energy.
- The site will save an additional \$4,500/yr by reducing unnecessary pressure.

Lower discharge pressure means lower power:

1% power per 2 psi for screw compressors



#4: Ashland WWTP – UV Disinfection System



- Previously existing UV system was at end of life, needed more capacity → Major Renovation.
- Less efficient, less expensive UV system option used as theoretical baseline.
- More efficient UV system was purchased, incremental cost above baseline is eligible.



#4: Ashland WWTP – UV Disinfection System

UV lamps (up close)



ESI worked with the site's electrician to install data loggers on the UV system and analyze power data

Baseline UV System Power = 45.5 kW

Upgrade UV System Power = 11.8 kW

Energy Savings = 362,222 kWh

LESSONS LEARNED

- Wastewater Treatment Plants (WWTPs) have excellent opportunities for energy efficiency.
- New construction almost always has opportunities for energy savings, using incremental cost.
- The site will save \$25,000/yr by operating the more efficient UV system over the equivalent baseline.

Questions?



Jeff Bernacki
Energy Smart Industrial Partner (ESIP)
1524 Willamette Street, Suite 203
Eugene, OR 97401
Direct: (458) 215-0800
Cell: (541) 600-0959
E-mail: Jeffrey.Bernacki@energysmartindustrial.com





Questions or Comments?

Time for a break!



Utility Roundtable Share Out

What's on your mind? Please share or ask anything you like.

- Recent successes?
- Concerns/challenges now or in the future?
- Future opportunities or areas to improve?
- What are you excited about?

Utility Roundtable Share Out

- Lessons learned from end of rate period?
- What do you wish you knew?
- Additional support you may need from BPA?

After Hours Networking

- No-host dinner and networking at **Backstop Bar & Grill** at 5:30 p.m.
- Located one mile away from our meeting at 211 N Grant St, Canby, OR 97013.



Adjourn!





Oregon Utility Roundtables 2025

Welcome to Day 2!

Oct. 15-16, 2025





Residential and Income Qualified Sector UTILITY ROUNDTABLES 2025

Oct. 15-16, 2025



Agenda

- **Residential Sector Updates:**
 - Residential Accomplishments.
 - Rate Period IM Updates.
 - CRH Updates.
 - Residential Pipeline.
- **Income Qualified Updates.**
- **Discussion.**



Residential Accomplishments

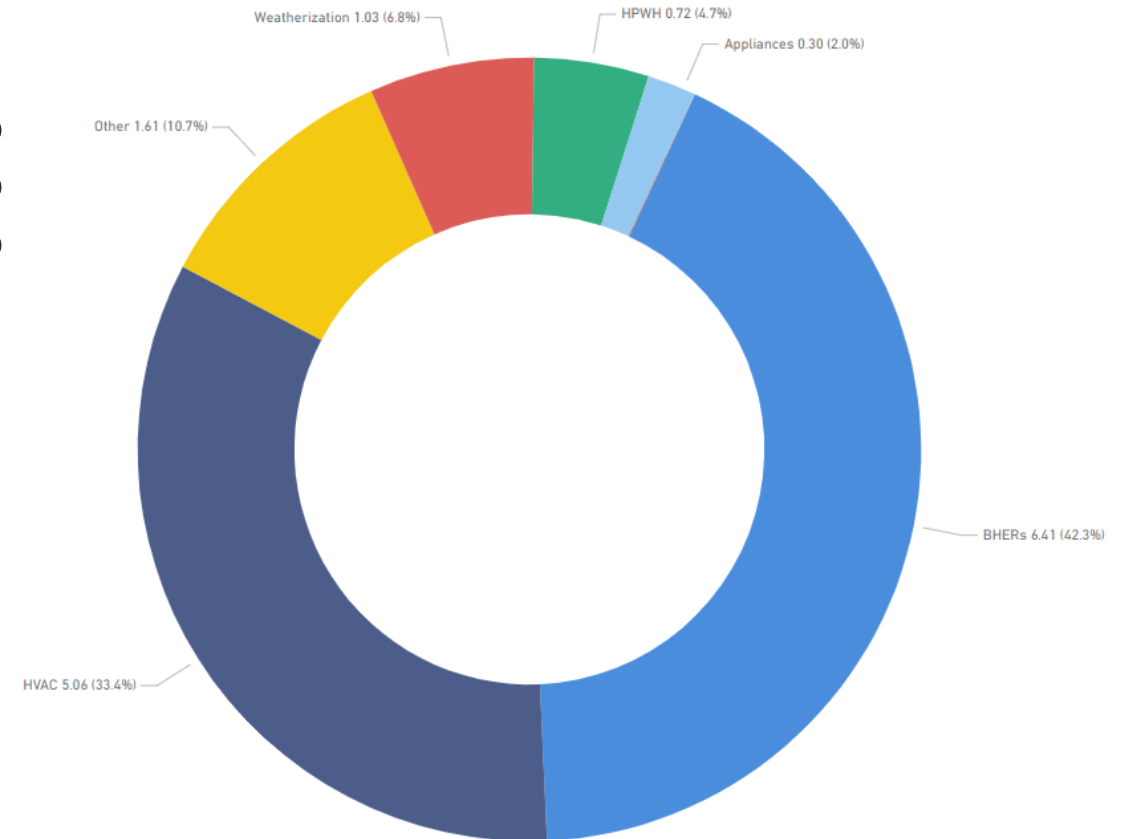
	Savings (aMW)			Reimbursement		
	BP22	BP24	% Change	BP22	BP24	% Change
Total Residential	17.63	15.14	-14.1%	\$61,254,291	\$73,919,012	20.7%
<i>EI Only</i>	<i>17.41</i>	<i>14.29</i>	<i>-17.9%</i>	<i>\$50,072,291</i>	<i>\$60,405,896</i>	<i>20.6%</i>
<i>DFD</i>	<i>0.01</i>	<i>0.29</i>	<i>2800.0%</i>	<i>\$75,486</i>	<i>\$2,787,602</i>	<i>3592.9%</i>
Low Income	0.87	1.98	128.2%	\$22,699,020	\$47,573,891	109.6%
<i>EI Only</i>	<i>0.65</i>	<i>1.33</i>	<i>104.6%</i>	<i>\$11,577,456</i>	<i>\$34,695,062</i>	<i>199.7%</i>
<i>DFD</i>	<i>0.0041</i>	<i>0.09</i>	<i>2086.5%</i>	<i>\$15,050</i>	<i>\$2,153,315</i>	<i>14207.7%</i>

Residential Accomplishments continued

Total Residential Savings FY 2024-2025

- Behavioral Home Energy Report (HER) = 42.3%
- Heating, ventilation, air conditioning (HVAC) = 33.4%
- Other* = 10.7%
- Weatherization = 6.8%
- Heat Pump Water Heaters (HPWH) = 4.7%
- Appliances = 2.0%

***Other** includes electric vehicles (EV) chargers, thermostats, new construction, and custom projects.



Rate Period IM Updates

- Installed Cost requirement.
- *By Request* Distribution Channel removal.
- Energy Savings & Incentive Payments.
- Multifamily New Construction Qualified Programs List (QPL) update* (*coming soon*).
- Unitary HPWHs– New Construction.
- Prime Window and Patio Door Replacement.
- Residential Custom Projects.



Webinar on Reporting Residential Costs in BEETS

Webinar hosted on Oct. 2 covering guidance on reporting cost data and eligibility of income qualified repair costs will be posted on the [BPA Energy Efficiency's Presentation and Webinars homepage](#) soon.



New Guidance Document: Reporting Costs in BEETS

Posted in the
[BPA Document Library](#) under
“Residential”

Residential Sector

- [Guidance for Reporting Residential Costs in BEETS](#)

<https://www.bpa.gov/energy-and-services/efficiency/document-library>

B O N N E V I L L E P O W E R A D M I N I S T R A T I O N

Guidance for Reporting Residential Costs in BEETS

Version: 1.0

The [BPA Energy Efficiency Implementation Manual 2026-2027](#) refers to three types of costs in Section 11: Residential Sector. The purpose of this guidance document is to clarify these terms for Residential measures and how to report them in BEETS:

- Installed Cost
- Income Qualified Measure Cost
- Income Qualified Repair Cost

Installed Cost

Effective October 1, 2025, all BPA Residential Sector measures, except Income Qualified measures, require a dollar value be entered in the "Installed Cost" field of the Bonneville Energy Efficiency Tracking System (BEETS) (Column R in the UES Measure Upload Template). Additionally, BPA prefers, but does not require, additional detail in the "Wildcard" BEETS field about what types of cost(s) are included in the reported total cost (Column U in the UES Measure Upload Template). The installed cost data will help BPA better understand current market conditions and improve the design of incentive structures.

Installed Cost may:

- Include the actual or estimated cost of equipment for measure implementation.
- Include the actual or estimated cost of installation for measure implementation.
- Not include the cost of repairs completed to support the installation for the measure.

Note for Income Qualified measures: The "Installed Cost" field is not required in BEETS; see next page for more detail on Income Qualified Measure and Repair Costs.

While the Installed Cost field must be completed in BEETS, BPA recognizes it may be harder to get actual or estimated cost data for some measures. See **Table 1** below for which measures users may enter a value of \$0 if the actual or estimated installed cost is not available.

TABLE 1: Installed Cost Field Can be Reported as \$0

BPA IM Section	Measure	Type	BEETS Wildcard Field (Optional for All)
11.7.1	New Northwest Energy Efficient Manufactured Housing (NEEM)	All	Equipment only or Equipment and Installation
11.7.2	Replacement of Pre-1976 Manufactured Home with NEEM Certified Home	All	Equipment only or Equipment and Installation
11.7.3	Single-Family New Construction Performance Path	All	Equipment only or Equipment and Installation
11.7.4	BPA Energy Efficient New Multifamily Construction (BPA-Qualified)	All	Equipment only or Equipment and Installation
11.7.5	BPA Zero Energy Ready New Multifamily Construction (BPA-Qualified)	All	Equipment only or Equipment and Installation
11.9	All Income Qualified Measures		Installed Cost Field Optional



ISTRATION

Page | 2

for all Income Qualified measures will be applied to this field. Users s, but it is not required.

ome Energy Efficiency Measures, s, equipment, labor, verification of or moisture barriers."

for all Income Qualified measures port, please enter \$0. For guidance n the [BPA IM Document Library](#).

By Request Distribution Channel

- **Removed “By Request” Measure Distribution Channel.**
 - 11.3.1 ENERGY STAR Level 2 Networked Electric Vehicle Chargers.
 - 11.4.1 Thermostatic Shut-Off Valves (TSV).
 - 11.6.3 Advanced Smart Thermostats.
 - 11.8.7 Door Sweeps.



Energy Savings and Incentive Payments

Measure#	Measure Name	Previous Payments	New Payments
11.2.1	Clothes Washers	\$25-\$100/unit	\$36-\$125/unit
11.4.2	Unitary Heat Pump Water Heater – 40 gallon (BPA-Qualified)	\$700/unit	\$1400/unit
11.4.3	Unitary Heat Pump Water Heater – 50 gallon (BPA-Qualified)	\$800-\$900/unit	\$1600-\$1800/unit
11.4.4	Split-System Heat Pump Water Heater	\$1100/unit	\$2200/unit
11.5.1	Ductless and Ducted Mini-Split Heat Pumps	\$800/unit	\$920/unit
11.5.2	Air-Source Heat Pump Conversion from Electric Forced-Air Furnace to Air-Source Heat Pump	\$1000/unit	\$1250/unit
11.5.3	Air-Source Heat Pump Conversion from Electric Forced-Air Furnace to Variable-Speed Air-Source Heat Pump	\$1200/unit	\$1560/unit
11.5.4	Variable-Speed Air-Source Heat Pump Upgrade	\$200/unit	\$600/unit
11.8.2	Prime Window and Patio Door Replacement	\$6-\$16/sf	\$8-\$20/sf

Energy Savings and Incentive Payments

Measure#	Measure Name	Previous Busbar Savings	New Busbar Savings
11.2.1	Clothes Dryers	191.13 kWh – 517.09 kWh	253.03 kWh - 569.29 kWh
11.4.3	Unitary Heat Pump Water Heater – 50 gallon (BPA-Qualified)	1470.72 kWh – 1856.62 kWh	1528.92 kWh – 2063.51 kWh
11.5.1	Ductless and Ducted Mini-Split Heat Pumps	953.83 kWh – 3251.30 kWh	545.28 kWh - 3248.14 kWh
11.5.9	Duct Insulation	1.53 kWh – 1.58 kWh	2.46 kWh - 3.53kWh
11.6.2	Communicating Line Voltage Thermostats	80.00 kWh	79.52 kWh - 80.43 kWh
11.8.1	Insulation (<i>Including Exterior Insulated Doors</i>)	0.06 kWh – 4.54 kWh	0.06 kWh - 4.07 kWh
11.8.2	Prime Window and Patio Door Replacement	7.72 kWh – 18.16 kWh	8.00 kWh - 23.4 kWh
11.8.3	Low-E Storm Windows	6.94 kWh – 16.29 kWh	8.42 kWh – 21.48 kWh
11.8.5	Air Sealing	0.26 kWh – 0.27 kWh	0.37 kWh

Multifamily New Construction QPL Update

- **Updated Qualified Programs List.**
 - 11.7.4 BPA Energy Efficient New Multifamily Construction (BPA-Qualified).
 - 11.7.5 BPA Zero Energy Ready New Multifamily Construction (BPA-Qualified).
- **Based on updated analysis on state codes and voluntary new construction certification program requirements.**
- **New Approach to “locking-in” qualified program.**
 - Building Construction Permit Date.

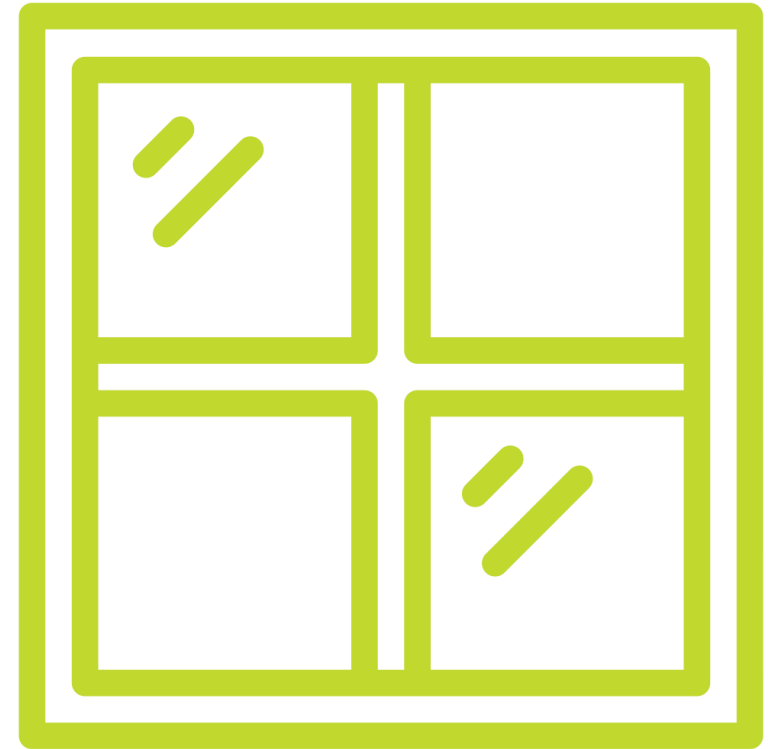
Unitary Heat Pump Water Heaters – New Construction

- HPWH in new construction now allowed in Montana, Wyoming, Idaho, California, Utah, and Nevada.
 - 11.4.2 Unitary Heat Pump Water Heater – 40 gallon (BPA-Qualified).
 - 11.4.3 Unitary Heat Pump Water Heater – 50 gallon (BPA-Qualified).
- Not available in Oregon or Washington.



Prime Window and Patio Door Replacement

- **Removes Double-Pane Pre-condition “metal frame only.”**
 - 11.8.2 Prime Window and Patio Door Replacement.

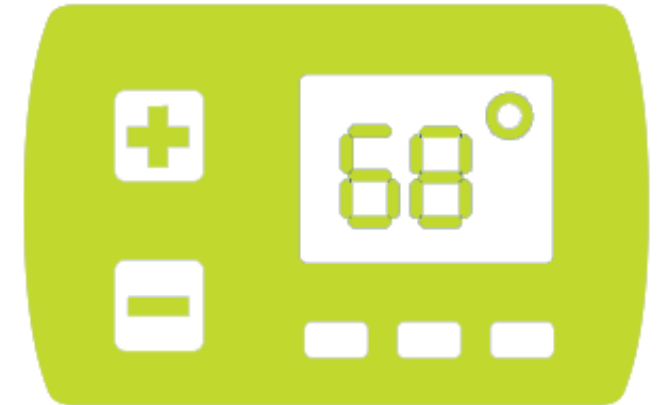


Residential Custom Projects

- **BPA does not develop energy savings estimates** for new multifamily construction custom projects that address multiple end uses or whole building measures.
- **BPA may develop energy savings estimates** for custom projects that address a single targeted end use, (e.g., central heat pump water heaters).
- **For the whole-building analyses**, customers may either leverage the UES measure BPA Energy Efficient New Multifamily Construction or develop and submit a custom project per Section 4 of the Implementation Manual using their own resources.

Residential Pipeline

- High-Performance High-Capacity Heat Pump Research.
- Room Heat Pumps.
- Cold Climate Heat Pumps.
- Combination (Combi) Systems.
- Central Heat Pump Water Heaters.
- Low Profile (Low Boy) Heat Pump Water Heaters.
- Heat Recovery Ventilation (HRV).
- Behavioral Home Energy Reports (alternative approaches).





Questions or Comments?

Income Qualified Offerings



Income Qualified Updates

- Snapshot of increased uptake.
- Name change is official.
- Income qualifying multifamily units.
- Workgroup.
- Income qualified repair cost reference table.
- Updated resources.



Increased Uptake!

FY 2024 had the highest number of utilities that have claimed Low Income measures within the last three rate periods!

Fiscal Year	# of Utilities
FY 2018	46
FY 2019	42
FY 2020	37
FY 2021	39
FY 2022	37
FY 2023	42
FY 2024	50
On Average:	42

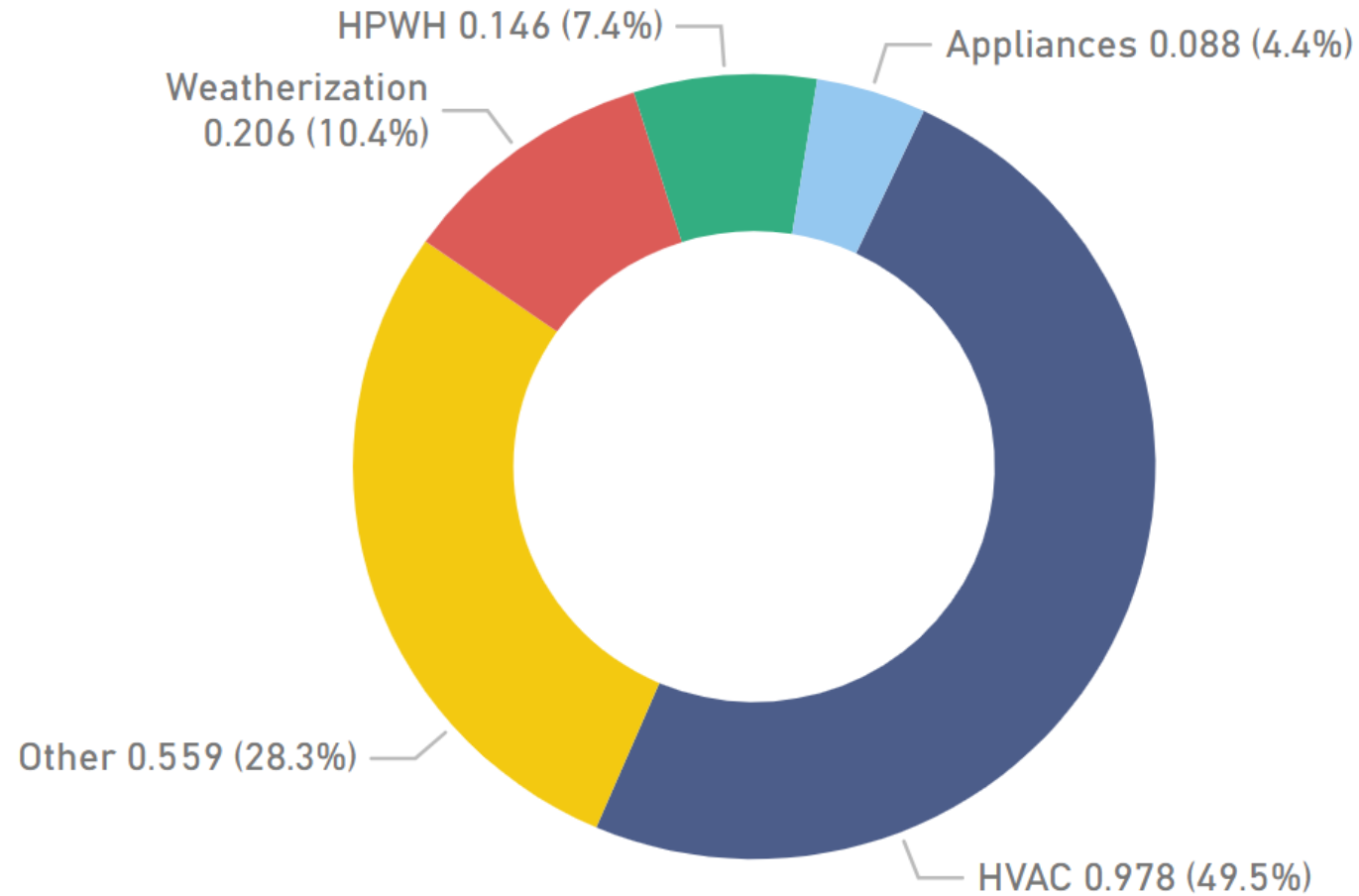
Increased Uptake!

- 230% increase in funding from FY22 to FY24.
- 124% increase in savings from FY22 to FY24.
- Most Popular measures: Heat Pumps, Insulation, and Appliances.
- **So far in FY25:**
 - Over 3,000 washers and dryers installed, more than double than FY24.
 - Over 1.7 million sq feet of insulation installed, which is 26 football fields worth!
 - Over 1,500 ductless heat pumps, nearly 600 ducted heat pumps, and 43 packaged terminal heat pumps installed.



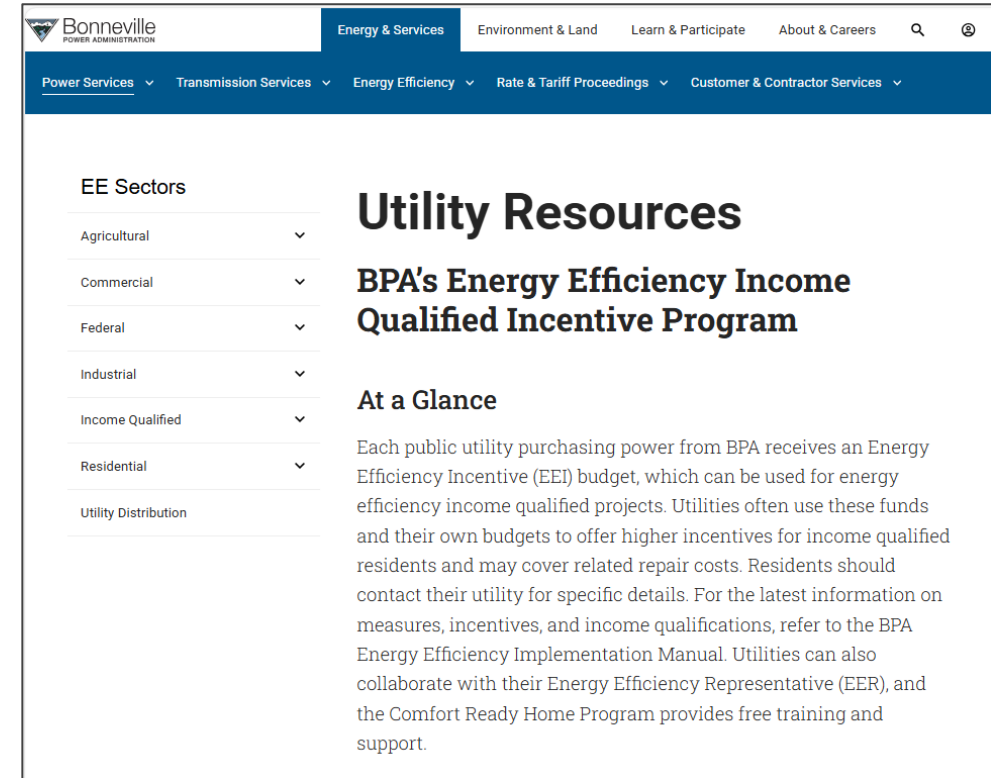
Income Qualified Successes!

Low-Income Residential Savings - aMW



Name Change is Implemented!

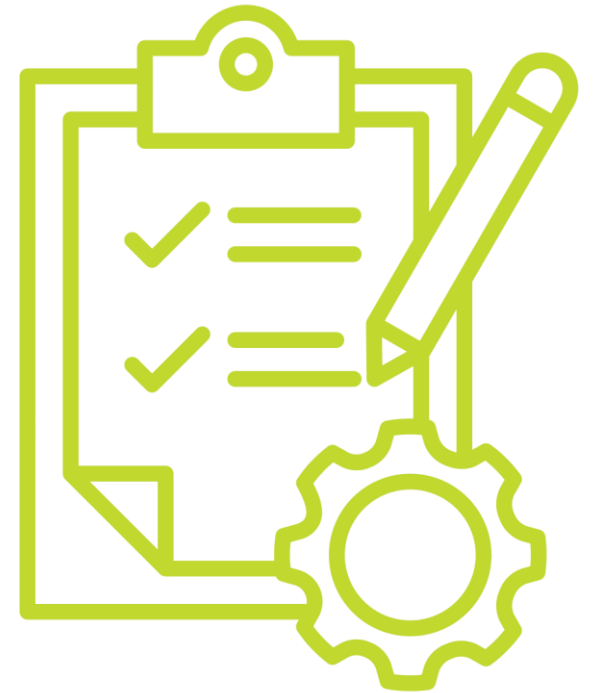
Program name is officially changed from “**Low Income Energy Efficiency**” to “**Energy Efficiency Income Qualified (EEIQ).**” Some website links have changed as a result.



<https://www.bpa.gov/energy-and-services/efficiency/ee-sectors/energy-efficiency-income-qualified>

Low Income Qualification Clarification

*“Household eligibility is based on gross income and is defined in the Federal Weatherization Assistance Program (WAP) as 200 percent of the poverty income levels. **Alternatively, approved statewide or tribal eligibility definitions may substitute for federally established income qualified levels, if available.**”*



Income Qualifying Multifamily

Clarification added in the IM that you can income qualify and serve a single multifamily unit without having to serve and income qualify the entire building.

- Clarifying an existing policy.
- If needing to serve the whole building, utilities can still income qualify at least 50% of the units.



Highlighted Changes Effective Oct. 1

- Requiring two fields when entering projects in BEETS.
- Disallowing cost coverage of full roof replacements.
- Implementing new policy for repair cost coverage.
 - For an income qualified project with a measure cost of \$1,000 or higher, related repair costs will be capped at 300% of the reported income qualified measure cost.



New Reference Document: IQ Repair Costs

Posted in the
BPA Document Library under
“Residential”.

Income Qualified

- [Income Qualified Project Information Form + Income Verification \(Optional – Customizable Word Document\)](#)
- [Income Qualified Project Information Form + Income Verification \(Optional – Fillable PDF\)](#)
- [Income Qualified Eligibility Form \(Optional\)](#)
- [Repair Cost Reference Table](#) 

<https://www.bpa.gov/energy-and-services/efficiency/document-library>

B O N N E V I L L E P O W E R A D M I N I S T R A T I O N

Income Qualified Repair Cost Reference Table

Version: 1.0

This document is intended to help identify the types of income qualified project costs that may be eligible or ineligible for payment. **This list is not comprehensive.** If other types of costs not referenced on this list are in question, customer utilities may contact their energy efficiency representative for further clarification. **This list will be updated as needed.**

Note that not all Income Qualified measures allow for reimbursement of repair costs. Please see section 11.9 in BPA's [Energy Efficiency Implementation Manual 2026 - 2027](#) for more guidance on which measures are eligible for repair costs.

Income Qualified Repair Costs

For income qualified projects, related repair costs must be directly associated with the installation of the measure, either for health and safety reasons or to ensure the measure's effectiveness. When asked by a utility or implementer, BPA may determine what repairs are eligible. However, it is at the discretion of the customer utility to spend their EEI to cover repair and measure costs.

Customer utilities must list repair costs separately from measure installation costs on the contractor invoice and must also report them separately in BEETS. For more guidance on reporting Residential measure costs, please reference the document titled "Guidance for Reporting Residential Costs in BEETS" in the [BPA Document Library](#).

Repair Cost Payment Cap

Effective October 1, 2025, for income qualified projects with a measure cost of \$1,000 or higher, related repair costs will be capped at 300% of the reported income qualified measure cost.

Cost Examples & Guidance

Below are some examples of repair and measure costs that BPA has previously provided guidance on. Included are examples already listed in section 11.9 in BPA's [Energy Efficiency Implementation Manual 2026 - 2027](#).

Task	Repair Cost Directly Related to Installed Measure	Measure Cost Directly Related to Installed Measure
Removing a dead animal for income qualified insulation.	Allowed (e.g., animal is within the wall or crawlspace being worked on)	Allowed
Plumbing-related repairs.	Allowed, so long as it relates to or is impacted by the installed measure.	Allowed, so long as it relates to or is impacted by the installed measure.
Rewiring in income qualified home receiving wall insulation that has knob and tube wiring.	Allowed	Allowed
Bringing unsafe electrical wiring up to code.	Allowed, as long as the work and upgrade are only done on the circuit affected by the income qualified efficiency measure.	Allowed



(example from IM)

Page | 2

Page | 3

Page | 4

Recorded Webinar: Repair Cost Reference Table

- Hosted webinar on October 2, 2025 covered:
- IQ measure cost vs. install cost.
- Reporting IQ measure and repair costs.
- Repair cost cap policy.
- Eligibility of tasks as repairs vs. install costs.
- Nuances of repair costs.
- Presentation slides and webinar to be posted in the [EE Presentations and Webinars](#).



Energy Efficiency Income Qualified Regional Workgroup

Last meeting held Oct. 6, 2025.

- Winter meeting date to be determined.
- Hosted three times a year.
- Presentations and facilitated discussions.
- Selected Steering Committee.
- Posted on [Income Qualified Page](#).
 - Agendas and Resources from Previous Meetings
 - Workgroup Charter.
 - Discussion Topic Reference List.
 - Resources from previous meetings.

Structure and Organizing Principles:
BPA Northwest Energy Efficiency Income Qualified
Workgroup
(Amended October 2025)

Mission

The BPA Northwest Regional Energy Efficiency Income Qualified Work Group is a venue for utilities, community action agencies, state agencies, advocates, and other organizations to come together to share information and develop best practices in order to improve access to energy efficiency services across the Northwest for income qualified residents.

Background

This Workgroup initially began in response to the BPA Post-2011 Review. The structure was largely undefined by the Post-2011 Review, leaving BPA to take the initiative to move this forward.

Objectives

- Provide a venue for utilities, advocates, and other organizations working to support income qualified programming within the Northwest to collaborate.
- Increase shared knowledge of CAP and utility business activities to improve collaboration.
- Find simple solutions to streamlining program implementation between organizations including but not limited to CAPs, utilities, and Community Based Organizations (CBOs).
- Identify barriers and solutions to increasing access to Energy Efficiency programs.

Workgroup Structure

Meeting Cadence & Duration

The intent of this workgroup is to convene at least three times a year or quarterly, as staffing resources are available. The length of each individual meeting will take into account content, location, and time of year.

BPA commits to facilitation of this group for one year at a time. If it is determined that BPA cannot perform this function adequately or the scope is too broad for the Workgroup to function effectively and efficiently, BPA may decide to discontinue facilitation or adjust the scope.

Facilitation

BPA will provide a facilitator. A steering committee will provide guidance as requested by BPA ([see below for more details](#)).

- Primary Coordinator: BPA Energy Efficiency Income Qualified Program Manager
- Back-Up Facilitator: BPA Energy Efficiency Program Support

Structure & Organizing Principles | BPA Northwest Energy Efficiency Income Qualified Workgroup | Page 1

Discussion Topic Reference List:
Income Qualified

expressed interest in discussing in the
is not organized in any particular
me Qualified program team felt it
e and organizations implementing

eed with helping to prioritize this
rkgroup. This list will be added to
discussions.

implementation structure are all

l, and Other Guidelines)

Fuel Switching

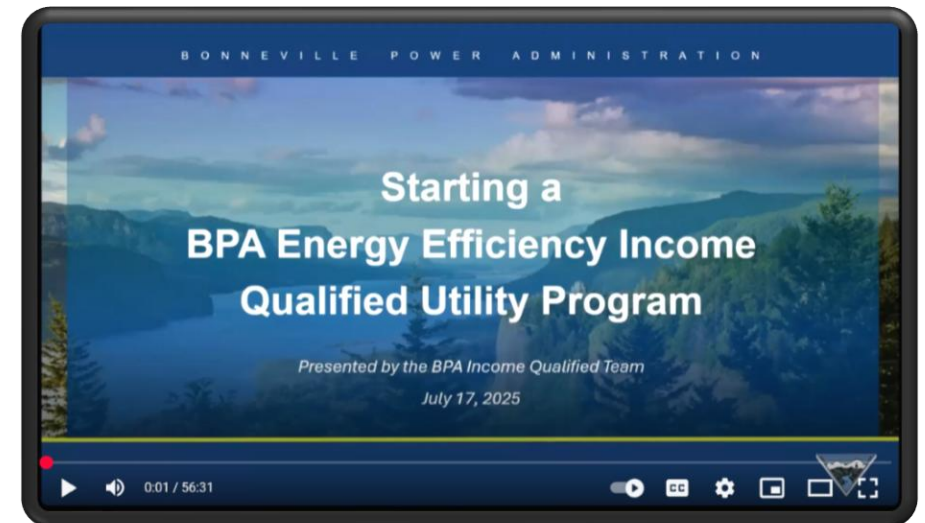
- Utility and CAP Partnership Development
- Contractor and CAP Partnership Development
- Collaboration of Program Sharing

Click on each page to access the documents online.

Recorded Webinar: Starting an EEIQ Program

Recorded webinar from July 17, 2025 covering:

- Basics of starting an EEIQ Program.
- Available measures and documentation.
- Claiming repair costs.
- Outreach and coordination.
- Income qualification.
- Presentations from two utilities.



[EE Presentations and Webinars](#)

[Presentation Slides](#)

[Recorded Webinar](#)

Updated Income Qualified Program Resources

- [BPA Energy Efficiency Income Qualified Homepage.](#)
- [Income Qualified Optional Form and Income Verification Template](#) (*customizable*).
- [Income Qualified Repair Cost Reference Table.](#)
- *Coming Soon:*
 - *Updated Income Qualified Quick Start Guide.*
 - *Tribal Grant Application and Supporting Materials.*

Document Library

Residential Sector

- [Guidance for Reporting Residential Costs in BEETS](#)

Income Qualified

- [Income Qualified Project Information Form + Income Verification \(Optional – Customizable Word Document\)](#)
- [Income Qualified Project Information Form + Income Verification \(Optional – Fillable PDF\)](#)
- [Income Qualified Eligibility Form \(Optional\)](#)
- [Repair Cost Reference Table](#)



Questions or Comments?

Thank you!

Jonathon Belmont

Residential Sector Lead

jmbelmont@bpa.gov

Amy Burke

Income Qualified Lead

aaburke@bpa.gov

Central Electric Cooperative

Income Qualified Program

October 10, 2025



CENTRAL ELECTRIC
COOPERATIVE, INC.

Program Offerings

- Ductless Heat Pumps (DHPs).
- Heat Pumps/Duct Sealing.
- Insulation/Air Sealing.
- Unitary Heat Pump Water Heaters (HPWHs).
- Clothes Washer and Dryers.
- Windows.



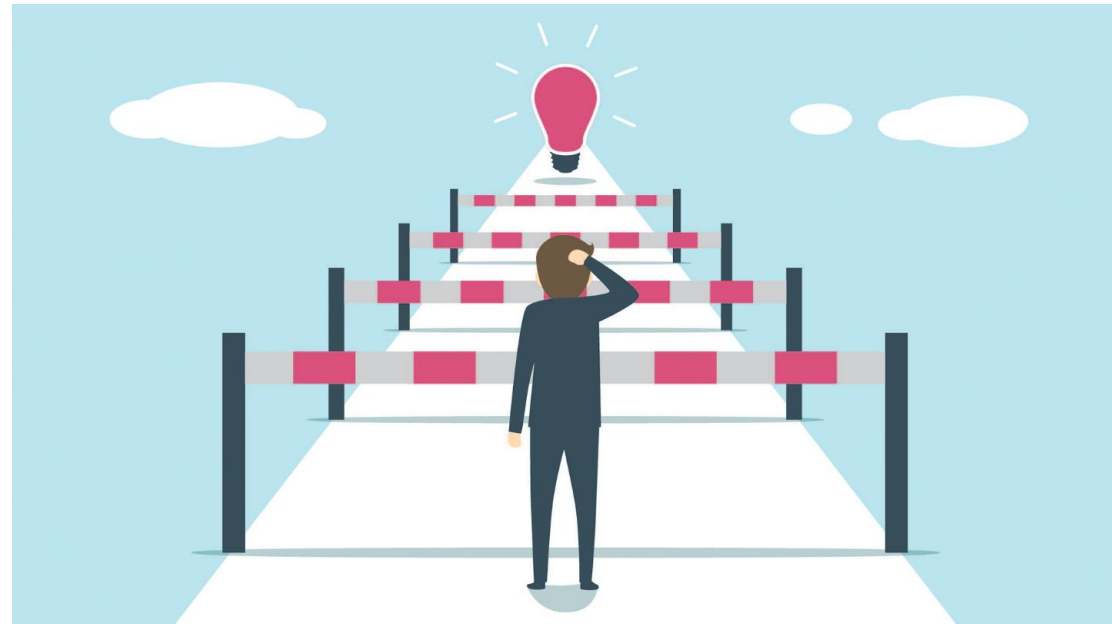
How do Members Sign Up

- Option 1: CEC calls member who has received Energy Assistance Program (EAP).
- Option 2: Member calls CEC (aka high bills).
- Option 3: Referral from Community Action Program (CAP) Agency or HVAC Contractor.



Obstacles

- Limited contractor network.
- Increased cost per home.
- Administration burden.



Results

2022

- Total Homes Upgraded:
 - Approximately 30.
- Average Cost Per Home:
 - \$7,723.
- Energy Savings per Home:
 - 2,860 kWh.

2023

- Total Homes Upgraded:
 - Approximately 49.
- Average Cost Per Home:
 - \$9,263.
- Energy Savings per Home:
 - 3,184 kWh.

2024

- Total Homes Upgraded:
 - Approximately 55.
- Average Cost Per Home:
 - \$15,994.
- Energy Savings per Home:
 - 4,791 kWh.



Plans for the Future

- Split heat pump water heaters:
- Whole house air sealing:



Questions?



Time for a break!





Energy Efficiency Marketing Team

UTILITY ROUNDTABLES 2025

Oct. 15-16, 2025



Meet the Marketing Team



Mike Gross
Marketing Lead



Rachael Ettelman
Marketing
Specialist



Maggie Bagan
Marketing
Specialist



Ming Kust
Marketing
Specialist



Robin Moodie
Marketing
Specialist

Skillset and Services



Collective Skills



Graphic Design



Production Design



Technical, Public Relations, Copywriting, and Editing



Presentations



Instructional and Social Media Videos



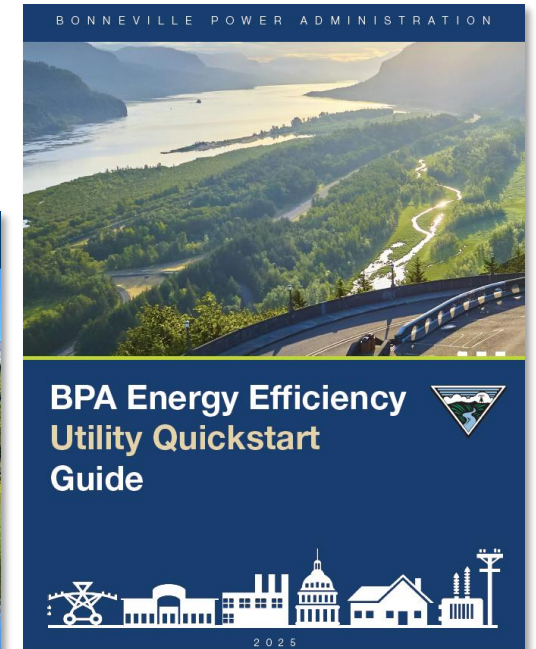
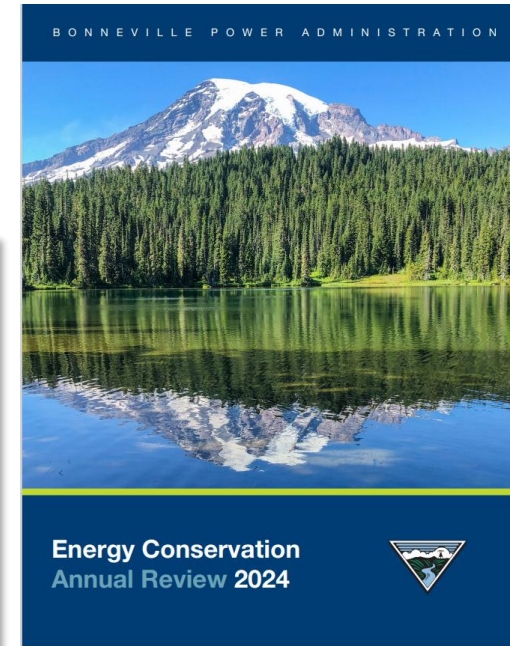
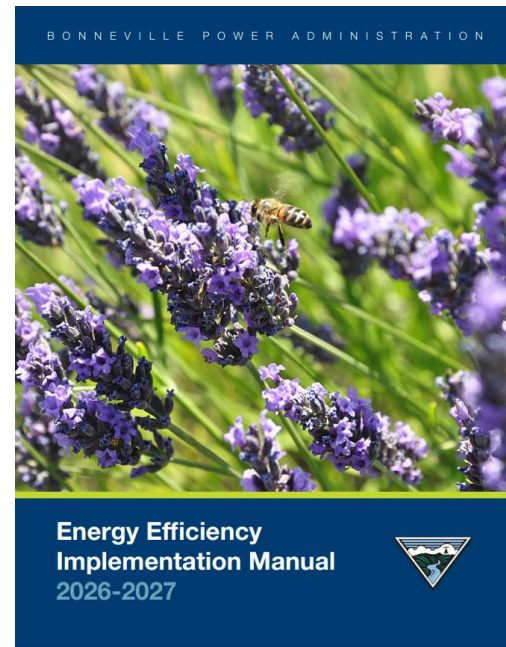
Web Design



Marketing Strategy and Planning

Marketing Team Publications

- Energy Efficiency Implementation Manual.
- Energy Conservation Annual Review.
- Energy Efficiency Action Plan.
- Energy Efficiency Utility Quickstart Guide.



Services

Marketing and Design

- Photos and graphic design production for images, logos, and icons.
- Marketing materials customization:
 - Custom fillable forms,
 - Social media content,
 - Flyers, or
 - Bill stuffers/post cards.
- Recommendations and support for marketing projects and campaigns.

The image displays three marketing materials for the City of McCleary Energy Efficiency Rebate Program. On the left is a 'Ducted Air-Source Heat Pump Data Collection Tool' form from NLI, which includes sections for site information, existing heating systems, and new heat pump equipment details. In the center is a flyer titled 'DITCH THE DUCT WITH A RESIDENTIAL DUCTLESS HEAT PUMP' featuring a family and a \$800 incentive offer. On the right is a house cross-section infographic titled 'City of McCleary Energy Efficiency Rebate Program *Incentives for Single-Family Homes', which lists various energy-saving measures and their associated costs or incentives, such as attic insulation, energy-efficient windows, smart thermostats, ENERGY STAR doors, variable speed heat pump conversions, and HP water heaters.

City of McCleary Energy Efficiency Rebate Program
*Incentives for Single-Family Homes

Attic Insulation
Up to \$2 per sq ft

Energy Efficient Windows
\$6 per sq ft

Smart Thermostat
Up to \$140

ENERGY STAR Door
\$40 per door

Variable Speed Heat Pump Conversion
Up to \$1,200

HP Water Heater
\$700 - \$1,100

DITCH THE DUCT
WITH A RESIDENTIAL DUCTLESS HEAT PUMP

\$800 Incentives available per qualified installation.

CAN HELP!
Call today to learn more about available tax credits and incentives: 360-495-3667 Ext. 161

*Some measures must meet certain criteria to qualify.
*Incentives may be adjusted yearly.

Services

Press Kits:

- Press releases,
- Articles,
- Case studies,
- Project success posters, and
- Social media posts.



Bonneville Power Administration
22,639 followers
2d • 

We recently partnered with **Benton PUD** to bring some juicy energy-savings to **Milne Fruit**, a Washington-based fruit juice and puree company. ...more



BPA supports local beverage company with juicy energy efficiency project
bpa.gov



COLUMBIA RIVER PUD
A COMMUNITY-OWNED UTILITY

HISTORIC BUILDING

BENEFITS FROM MODERN UPGRADES

PROJECT BACKGROUND

building served as the schoolhouse in St. Helens, used and remodeled the treasured historical building. As part of a larger multi-phase effort to enhance the building, Columbia County worked with Columbia River PUD. The utility identified a variety of attainable upgrades including windows, lighting retrofits, insulation, heat recovery system upgrades.

[← Back to Newsroom](#)

Energy efficiency upgrades breathe new life into 106-year-old historic St. Helens building

July 10, 2025



For implemented savings throughout the John Gumm building renovation, BPA awarded CRPUD an \$96,410 incentive payment.

BPA Energy Efficiency teamed up with Columbia County and Columbia River PUD to revitalize a historic building with modern energy-saving upgrades.

290,723
kWh Annual Energy Savings


\$96,410
Columbia River PUD Incentive Payment



John Gumm building exterior with new windows



New variable refrigerant flow HVAC system

What ideas do you have to save money?

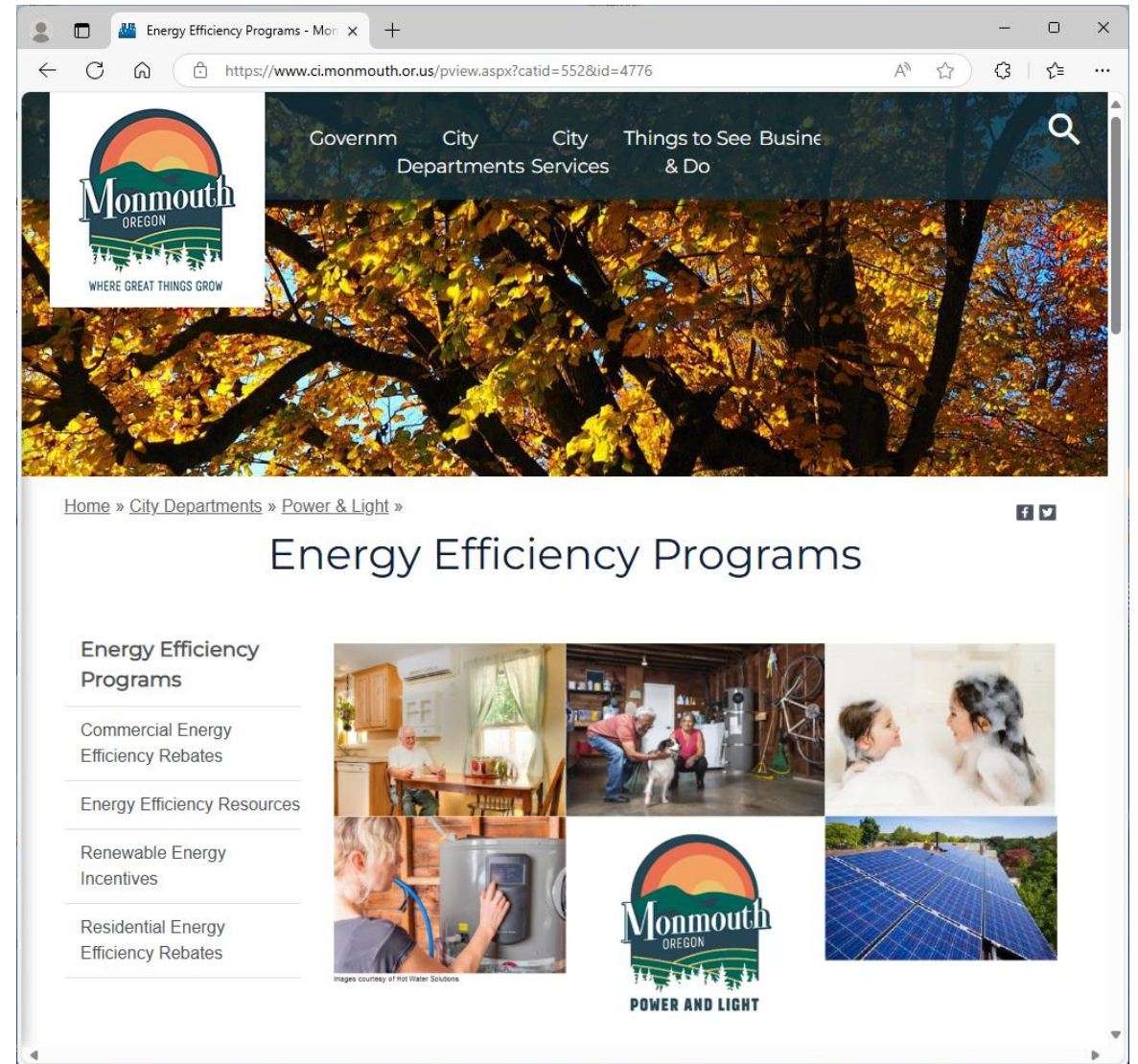
Columbia River PUD offers multiple energy efficiency incentives for residential, commercial and other types of customers.

Columbia River PUD
(503) 397-1844
www.crpud.net

New Services

Website Recommendations

- Review existing website and make recommendations.
- Graphics production.
- Search engine optimization.
- Improve user experience.
- Increase program visibility.



New Services

Big Check

- Laminated.
- Customized with logo.
- Re-usable with dry erase markers.
- Great for photo ops for case studies, articles, etc.

	COMPANY LOGO PUBLIC UTILITIES	1001
DATE: _____		
PAY TO THE ORDER OF _____	\$	
ENERGY SAVINGS ACHIEVED _____		kWH
⑆0123456789 ⑈0009876543⑈ 1025		



Updated Templates: Flyers



AGRICULTURAL ENERGY EFFICIENCY

Tackling Drought with Energy Efficiency

Your utility recognizes that saving water is important and can lead to saving energy. Your utility offers incentives to help you. By saving water, farmers, dairies, and ranchers may be able to reduce energy costs, increase irrigation uniformity, decrease the amount of fertilizer required, or potentially even increase crop quality and yield. Your utility offers services and incentives to their members for eligible energy-efficiency measures.

Contact your local public utility to learn how you may be eligible for incentives to increase energy and water efficiency in the following areas:

- New High-Efficiency Irrigation Pumps**
 Over time, some irrigation pumps may become worn out, leak water, and become less efficient. Or your old irrigation pump might not be a good match to your current irrigation system requirements. Installing a new more efficient pump will help restore your irrigation system to the best operating point and save energy. If you install a Variable Frequency Drive (VFD), you can save even more energy.
- Variable Frequency Drives**
 VFDs are designed to adjust your irrigation pump motor speed to match your changing irrigation (flow and pressure) requirements. The VFD controls the frequency of the electrical power supplied to your motor. Even small speed adjustments using a VFD can create big energy savings, often as much as 10 - 20 percent. You will also get greater precision and tighter control over water distribution and pressure, and help the pump match-flow requirements. A BPA spreadsheet is used to estimate energy savings and apply for utility incentives.
- Irrigation Hardware Upgrades**
 New sprinklers, regulators, nozzles and gaskets, can reduce the pressure required at the pump, save water, improve water application uniformity, and save energy. As equipment wears out, making the switch to more energy-efficient hardware is one of the easiest ways for you to start saving water and power.

Strategies for Drought Resiliency

- LEPA, MDI
- on
- pumps
- and wineries)

- ✓ Pump Test/System evaluation cost share incentives
- ✓ Drought tolerant crop varieties
- ✓ No till drill
- ✓ Collaboration with NRCS EQIP



Wineries
Many processing applications at wineries—VFDs, and refrigeration are all eligible opportunities for utility incentives. With new cleaning technology, water usage can be reduced at the winery.

YOUR UTILITY CAN HELP!

Call your local utility today to learn more about Agricultural energy-efficiency and available incentives for energy-saving improvements and ways to improve drought resiliency.



Take Control of Comfort

Connected Thermostats for commercial buildings

SIMPLE programming

REMOTE access via smart devices

AUTOMATIC updates

REDUCED energy costs

WEB-BASED monitoring & alerts

Making the switch to a connected thermostat gives you more control over your building's HVAC system and can help you manage and reduce your energy consumption and costs.

Connected thermostats control the HVAC system in order to maintain zone temperatures via the internet. Connected thermostats provide internet access to alerts and monitoring, and control from a remote location.

Programming capabilities allow you to more accurately match HVAC operation with actual occupancy (for example, scheduling setback temperatures during evenings, holidays and breaks), while ensuring desired temperatures are maintained during occupied hours, thus minimizing energy usage.

Available Incentives

\$150

for qualifying connected thermostat installations

\$50

Incentive per programming verification. The thermostat is eligible for up to four verification payments within two years of the initial install.

YOUR UTILITY CAN HELP!
Call your local utility today to learn more about commercial energy-efficiency and available incentives for connected thermostats.

INCENTIVE REQUIREMENTS

in conditions*:
 it must replace an existing thermostat that is not web enabled.
 in be electric or gas.
 4/7 occupancy, or semi-conditioned spaces are not eligible.
 is only. Not eligible for an ARC payment.

on conditions:
 rmostat:
 n existing HVAC supply fan and serves a single zone.
 sted on the Qualified Products List.

rmostat must be programmed as follows:
 onnected to the internet.
 re setback is used for unoccupied hours (heating and/or cooling, as applicable).
 rule uses auto mode for unoccupied hours (e.g., during unoccupied hours or
 he fan will only run when there is a demand for heating or cooling).
 uration set to three hours or less.

BACK
ical project payback, including
tives, is about 2-3 years.

2-3

INCENTIVES
We offer incentives for qualifying connected thermostat installations, and per programming verification. The thermostat is eligible for up to four verification payments within two years of

UTILITY CAN HELP!
 ility today to learn more
 rcial energy-efficiency
 and available incentives for connected
 thermostats.



Updated Templates: Postcards, Bill Stuffers



Make the switch!

Making the switch to a connected thermostat gives you more control over your building's HVAC system and can help you manage and reduce your energy consumption and costs.

- ✓ Simple Programming
- ✓ Automatic Updates
- ✓ Remote Access
- ✓ Reduced Energy Costs
- ✓ Web-based Monitoring and Alerts

Available
\$150
\$500

AGRICULTURAL ENERGY EFFICIENCY Tackling Drought with Energy Efficiency

Your utility recognizes that saving water is important and can lead to saving energy. By saving water, farmers, dairies, and ranchers may be able to reduce energy costs, increase irrigation uniformity, decrease the amount of fertilizer required, or potentially even increase crop quality and yield.

YOUR UTILITY CAN HELP!

Contact your local public utility to learn how you may be eligible for incentives to increase energy and water efficiency!



Updated Templates: Social Media Posts



**OPEN THE
DOOR TO
SAVINGS**

EFFICIENT WINDOWS AND
DOORS FOR RESIDENTIAL
HOMES

\$40 per qualified exterior door
installation



**SMART
THERMOSTATS**
\$140
PER QUALIFIED INSTALLATION

DUCTLESS HEAT PUMPS
\$800
PER QUALIFIED INSTALLATION

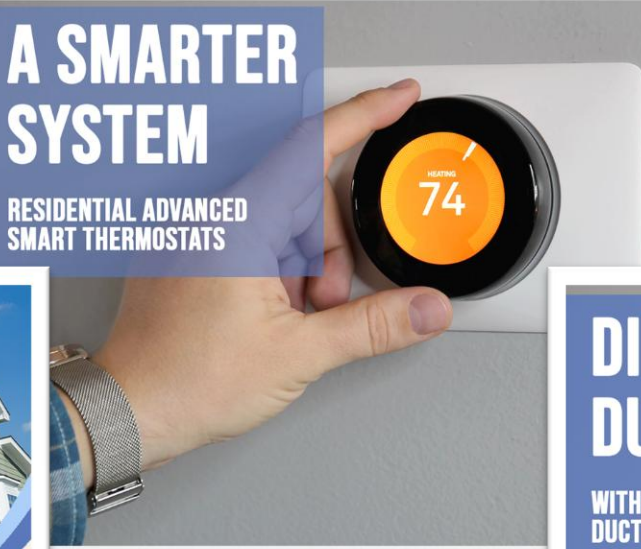
**HEAT PUMP
WATER HEATERS**
\$900
PER QUALIFIED INSTALLATION

COMPANY LOGO
PUBLIC UTILITIES

www.utilitywebsite.com

CONTACT US

MORE INFO CALL US
XXX XXX-XXXX



**A SMARTER
SYSTEM**

RESIDENTIAL ADVANCED
SMART THERMOSTATS

140 Incentives available per
qualified installation.

COMPANY LOGO
PUBLIC UTILITIES



**DITCH THE
DUCT**

WITH A RESIDENTIAL
DUCTLESS HEAT PUMP

\$800 Incentives available per
qualified installation.

COMPANY LOGO
PUBLIC UTILITIES



Questions or Comments?



UTILITY ROUNDTABLES 2025

Utility Distribution Sector

Oct. 15-16, 2025



Utility Distribution Strategic Priorities



Utility Distribution

Increase communication with utility management to promote the value of Utility Distribution measures.

2026-2027 Priorities

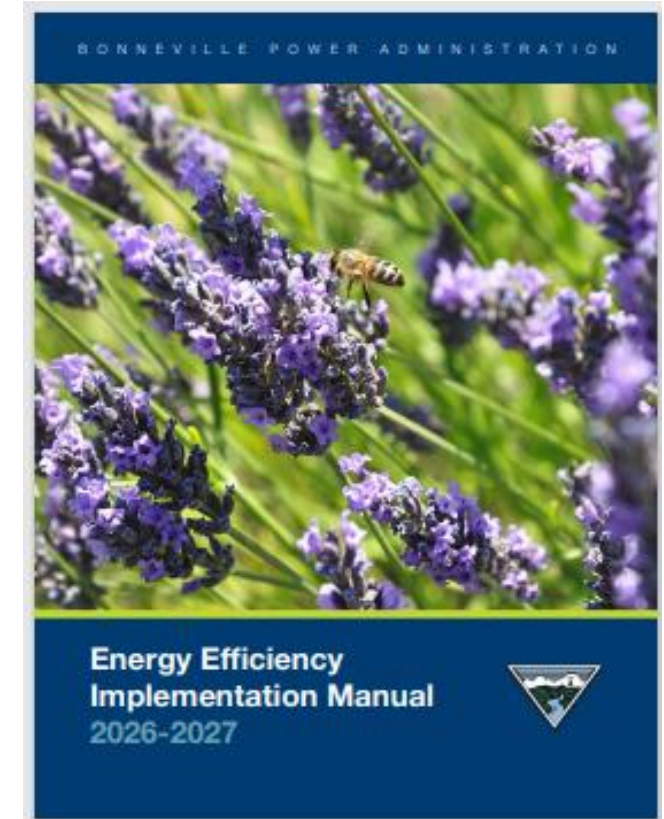
- Continue to encourage Re-conductor and Transformer Measures.
- Renew Marketing for Conservation Voltage Reduction (CVR) projects.
- Re-Introduce Daily Demand Voltage Reduction (D-DVR).

Implementation Manual – Section 12

What Measures are in this Sector?

Two main groups: FY 2026+

1. Re-conductor and Transformers (35-year measure): **\$0.38/kWh**.
 - Several other measures: voltage increase, power factor correction, etc., but they are infrequently submitted/reported.
2. Conservation Voltage Reduction (CVR) / Voltage Optimization (VO) (10-year measure life): **\$0.33/kWh** incentive.



Reconductor-Transformer (RT) Calculator: Program in BEETS

What is it?

- New streamlined process for these two measures, an alternative to custom project submittal.
- Project support document files can be attached to the calculator (all in one file).
- More automated data entry fields.
- Can handle up to six transformer and six reconductor measures in one file.

The screenshot shows the 'Create New Application' form in the BEETS system. The form is titled 'Create New Application' and has a 'NEW' button. Below the title, there is a 'Select Utility' dropdown menu with 'Bonneville Power Administration' selected. Below that, there is a 'Select Program' dropdown menu. The 'Select Program' menu is open, showing a list of programs: 'PTR Data', 'Re-Conductor & Transformer Upgrade' (highlighted in yellow), 'Small Compressed Air', 'Strategic Energy Management (SEM)', and 'UES Measures'. A red arrow points to the 'Re-Conductor & Transformer Upgrade' option.

Reconductor Measures Can Also Be Custom Projects

- When a reconductor project gets complicated.
- It can-not be addressed via RT-file.
- We leverage Load-Flow models executed by utility engineers or consultants.
- Outputs from the model (Peak kW Loss) are used to calculate Energy Savings.
- Tony Koch prepares the Custom Project details and enters into BEETS.

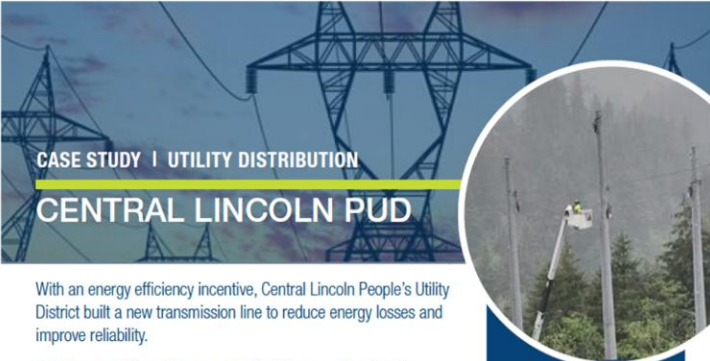
Utility Project Submittals in FY 2025

Utility	Program / Savings Type	Busbar Energy Savings (kWh/year)
Inland	Re-Conductor & Transformer	401,882
Idaho County	Re-Conductor & Transformer	117,835
Flathead	Re-Conductor & Transformer	268,061
Vigilante	Re-Conductor & Transformer	185,224
Coos-Curry	Re-Conductor & Transformer	390,686
DOE-RL	Re-Conductor & Transformer (Transformers)	29,867
Oregon Trail	Re-Conductor & Transformer	32,014
Cowlitz	Re-Conductor & Transformer	92,583
Vigilante	Custom Projects Option 1 - Reconductor	122,012
Fall River	Re-Conductor & Transformer	5,924
Kittitas	Re-Conductor & Transformer	371,794
Snohomish	Custom Projects Option 2 - Reconductor	29,691
Benton PUD	Custom Projects Option 1 - CVR	887,019
Vigilante	Custom Projects Option 1 - Reconductor	74,068
Lakeview	Re-Conductor & Transformer (Transformer)	89,530
Central Lincoln	Custom Projects Option 1 - Transmission Line	117,974
	FY25 Total (kWh/year)	3,216,164
	aMW	0.37

A Special Project to Highlight



Central Lincoln
PUD Case Study



CASE STUDY | UTILITY DISTRIBUTION

CENTRAL LINCOLN PUD

With an energy efficiency incentive, Central Lincoln People's Utility District built a new transmission line to reduce energy losses and improve reliability.

As energy travels from the power plant to doorsteps, some of it will inevitably get "lost" in transmission. It's a natural part of electricity distribution and occurs as a result of path resistance. As electric current flows through a conductor, it releases heat into the air just like a toaster. While heat is key for crisping up bread, for distribution and transmission lines, the heat is an undesired byproduct that results in energy loss. Luckily, there are ways to reduce these losses and deliver measurable energy savings. Bonneville Power Administration (BPA) partners with Northwest utilities and offers incentives for projects that address energy loss on their networks.

Utilities may opt to upgrade to a thicker wire, which helps electrons travel easier along a path. Another common option is expanding a single-phase line to a three-phase line, an upgrade that improves power flow for larger loads.

Central Lincoln People's Utility District (PUD) on the Oregon coast found an optimum solution to reduce energy loss on its network by adding a new transmission line that provides a parallel path on its 69-kilovolt network. Providing a parallel path for energy to travel helps distribute electrical current across a greater area, reducing congestion across Central Lincoln PUD's transmission network to deliver power more efficiently to customers. The new four mile path, from Substation 109 on Steensen Road to Agate Beach Substation in Newport, improves voltage stability and power flows, resulting in approximately 118,000 kilowatt-hours of annual energy savings. This translates to a cost savings of \$4,200 per year and a more secure, reliable distribution network.



For more information, please contact Central Lincoln PUD
www.clpud.org (888) 883-9879

By the Numbers

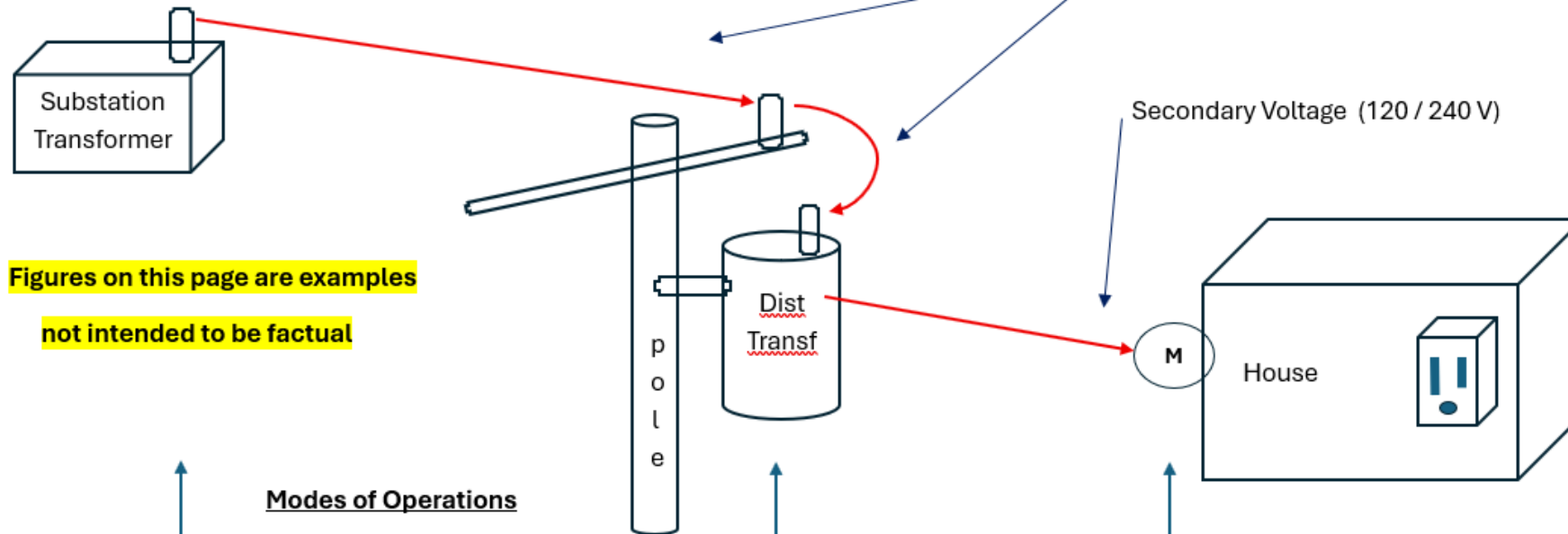
Total Annual Energy Savings:	118,000 kWh
Total Annual Energy Cost Savings:	\$4,200/yr
Total Incentives Earned:	\$44,830
Transmission line added:	4 mi

Clallam PUD: Deploying CVR projects with AMI Data



- Clallam has traditionally implemented CVR using Primary end of line voltage.
- The PUD is currently in CVR-factor data gathering for two substations.
- CVR-factor calculation relies on turning the CVR voltage setting On and Off on a daily-basis. A CVR-factor is calculated, usually using ~6 months of daily On / Off data, for a specific substation, and reflects the native load of the substation.
- The following page illustrates some different CVR operating modes.

Substation and Feeder Voltage: with and without CVR



Figures on this page are examples
not intended to be factual

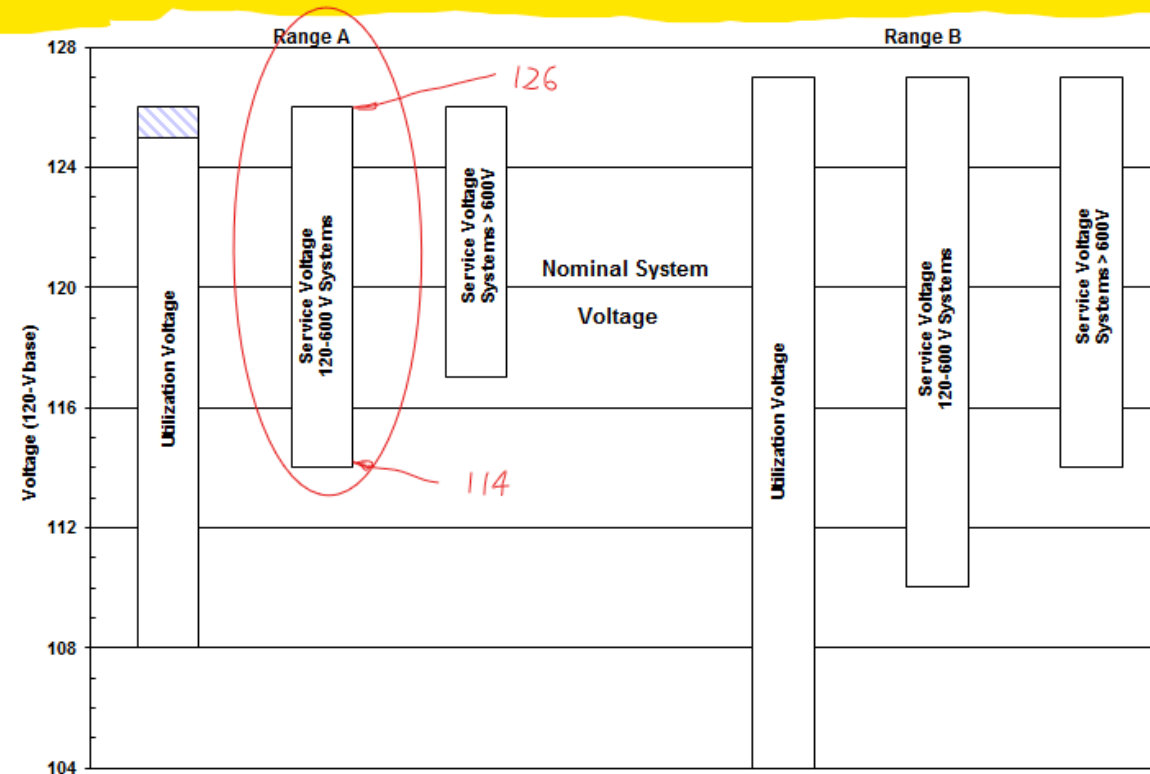
Modes of Operations			
Max: 126 V	ANSI C.84.1 Max & Min	Min: 114 V	Min: 110 V
122 – 124 V	Typical non-CVR operation	121 – 122 V	120 – 122 V
123 Avg		121 Avg	120 Avg
120 Avg	2-3V Reduction CVR target: 118 EOL Uses radios to communicate EOL voltage to sub	117 Avg	116 Avg
118 Avg	4-5V Reduction CVR with AMI voltage feedback Eliminates the need for EOL radios	115 Avg	114 Avg

Annex B

Illustration of Voltage Ranges of Table 1

Figure B1 shows the basis of Range A and Range B limits of table 1. The limits in table 1 were determined by multiplying the limits shown in this chart by the ratio of each nominal system voltage to the 120V base. [For exceptions, see note (c) to Figure B1.]

A technique commonly called Conservation Voltage Reduction (CVR) is sometimes used for energy and or demand reduction. Determination of the value of CVR is beyond the scope of this Standard. However, it is recommended that the application of CVR should be limited to voltages in Range A for normal operation. Range B should be reserved for emergency, infrequent operation. CVR systems should not be designed to operate below Range B for any condition.



(informative)

Figure B1

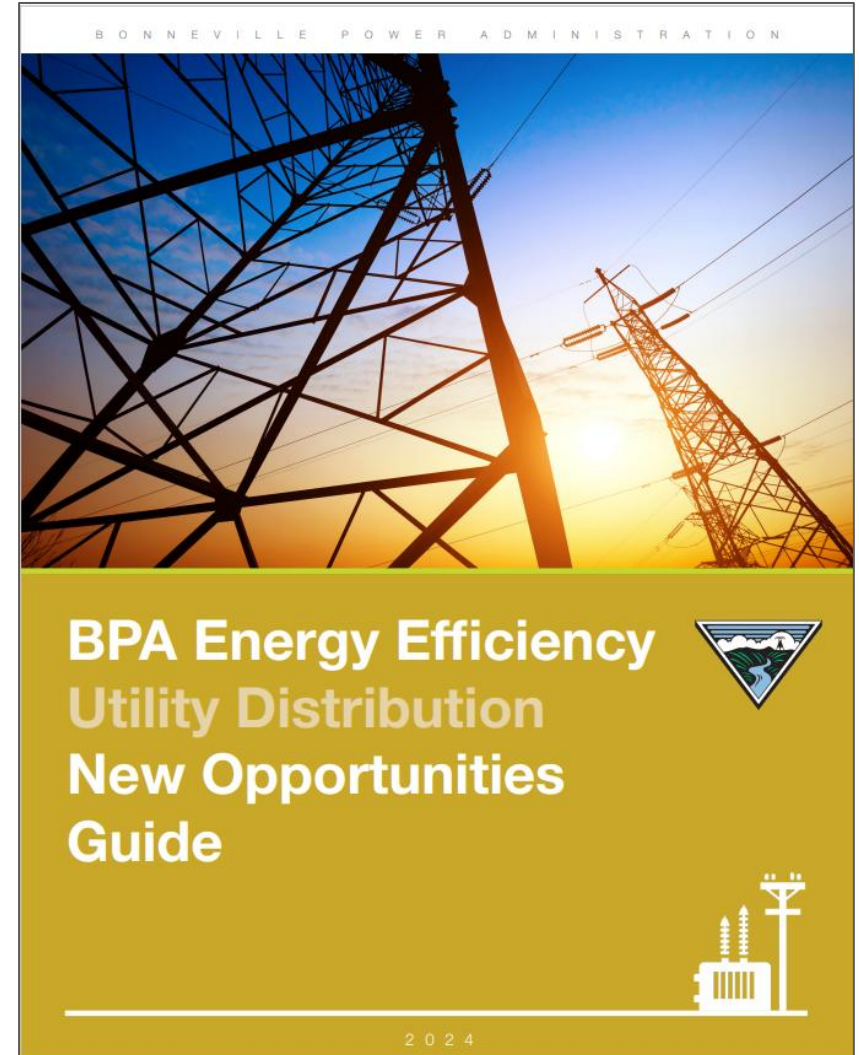
Re-Introduction of Daily DVR Energy Savings Pilot Program

- BPA has been working for the past year+ to enhance the Daily Demand Voltage Reduction (DVR) offering.
- BPA will host a **customer webinar on Nov. 13** to discuss Daily DVR in more detail.
 - *Invite your Distribution Engineering staff to the webinar.*
- BPA developed economic analysis tools that specifically quantify the overall benefit to utilities.
- BPA will address the possibility for hybrid CVR and Daily DVR in the webinar.

Utility Distribution: New Opportunities Guide

A marketing document to share with other staff...

<https://www.bpa.gov/-/media/Aep/energy-efficiency/utility-toolkit/uds-nog.pdf>





Contact Info for Technical Customer Service Support

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Mechanical Engineer
jakoch@bpa.gov
(206) 220-6777



Closing Remarks
Thank you, Surveys, and Safe Travels!



Efficiency Exchange Conference Raffle

Efficiency Exchange Conference 2026
May 5-6 | Boise Centre | Boise, ID



efficiency
exchange

Adjourn!





Don't Forget the Survey:

