

Eastern Washington Utility Roundtable June 4-5, 2025



Welcome and Introductions

- BPA Vice President of Energy Efficiency, Jamae Hilliard Creecy
- And our attendees, please share:
 - Name and Utility/Organization.
 - Role in EE and how long you've been working in energy efficiency.

Housekeeping

- Thank you to Jackie and Dawn from the City of Richland for coordinating this location for us!
- Please fill out the survey as we cover each topic.
- Safety moment.

Be Thinking About

- What are your goals for the remainder of the rate period and beyond?
- How can BPA help you to reach those goals?
- What else would you like to share with us?

End Of FY24-25 Rate Period

Eastern Washington Utility Roundtable
June 4, 2025



Tentative Deadlines



TENTATIVE LAST DAY TO:

- LC v6.0
 - **8/1/25** Request LC v6 migration to OLC.
 - **9/5/25** Submit LC v6 in BEETS.
- CUSTOM PROJECTS
 - **Mid September (~9/12)** Guaranteed COTR review of CR.
- BUDGETS
 - **Late September (~9/24)** Submit bilateral transfers.
- BEETS
 - **Mid September (~9/12)** Submit offsetting apps for corrections.
 - **Mid September (~9/19)** Submit apps for guaranteed COTR review.
 - **Late September (~9/24)** Invoice applications for payment.
 - Must be submitted the day before the deadline to accrue performance payment.
 - **Late September (~9/24)** Invoice for performance payment.

Upcoming Three-Year Rate Period

Eastern Washington Utility Roundtable
June 4, 2025



(Why) A Three Year Rate Period?



- 20-year Regional Dialogue contracts expire at the end of FY28.
- BPA rate periods for EE are in two-year increments, which would leave FY28 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 & Budget



- Two Implementation Manuals.
 - FY26-27.
 - FY28 (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



- Projects to be submitted into BEETS within six months of completion date.
- Projects to be invoiced within 30 days of “Ready to Invoice” status.
- BPA requests utilities report activity into BEETS at least once every six months.

Questions?

BPA Energy Efficiency Action Plan

Eastern Washington Utility Roundtable
June 4, 2025



BPA EE 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.

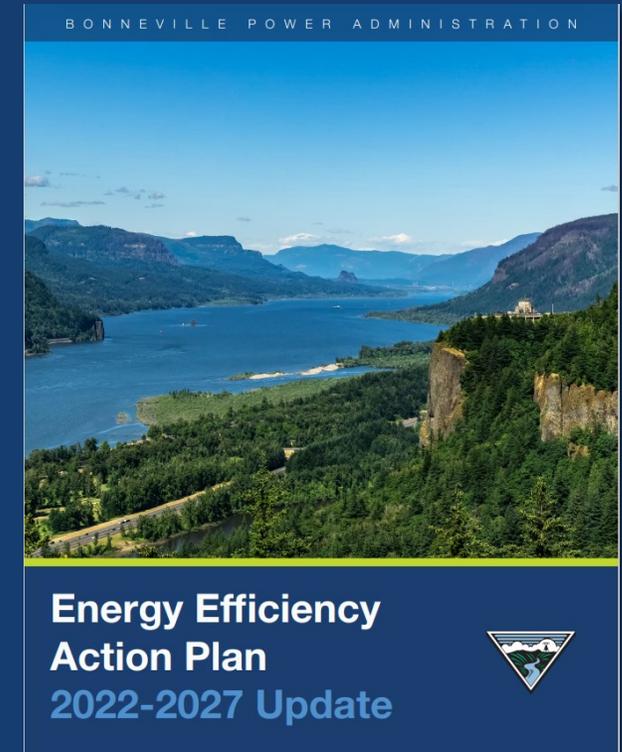


3

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

The BPA 2022 – 2027 EE Action Plan

- The BPA 2022-2027 EE Action Plan serves as the roadmap for how BPA and public power will achieve the 300 aMW conservation savings goal.
- In FY22-23, BPA acquired 89.6 aMW of programmatic conservation. EEI acquisition resulted in 79.1 aMW of energy savings. This rate period BPA has acquired 62.17 aMW with a goal of 90 aMW.
- BPA remains on track to exceed its 300 aMW energy conservation goal.



Demand Response, Market Transformation, and Momentum Savings

- Resource Program and Power Plan identified 300 MW of DR by end of FY26 of low cost, frequently deployable technologies that provide an energy resource (not capacity) like Demand Voltage Reduction (DVR)
- An additional 18.26 aMW of savings was delivered through Market Transformation activities led by the Northwest Energy Efficiency Alliance.
- Successfully completed building Momentum Savings market models and are on track to deliver 30 aMW energy savings by end of 2027.

Questions?

Residential Energy Efficiency

Jonathon Belmont
Residential Program Sector Lead

Eastern Washington Utility Roundtable
June 4, 2025



Today's Agenda

- Residential Strategic Priorities.
- Rate Period IM Updates.
- Residential Measures in Development.



Residential Strategic Priorities

Residential

- Supporting measures that reduce residential heating and cooling loads and high-efficiency water heating measures.
- Developing new opportunities to achieve higher savings and customer satisfaction.
- Increasing incentive payments to better align with increasing costs.

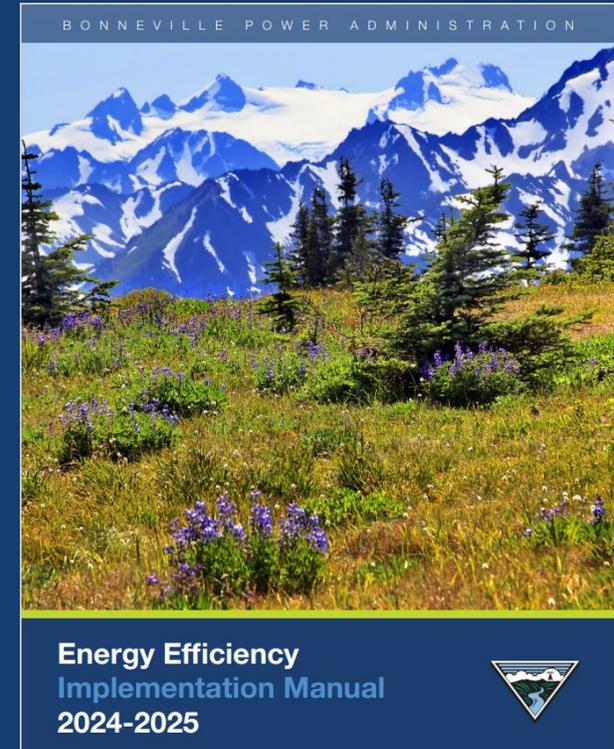
2024-2027 Priorities

- Addressing material and installation cost increases.
- Overcoming contractor hesitations to HPWH installations.
- Increasing coordination with regional actors on HVAC.
- Engaging smaller customers on program opportunities.



FY26-28 Rate Period IM Updates

- Require installed cost for all Residential measures.
- Remove “By Request” measures distribution channel.
- Remove “metal frame only” precondition from double-pane window Prime Window and Patio Door Replacement.
- Allow multifamily new construction custom projects for single systems.



FY26 – 28 Rate Period IM Updates (continued)

Measures	Existing Payments	New Payments
Air-Source Heat Pumps	\$1,000 / unit	Increased to \$1,250 / unit
Ductless Heat Pumps	\$800 / unit	Increased to \$920 / unit
Variable Speed Heat Pumps	\$200 – \$1,200 / unit	Increased to \$600 – \$1,560 / unit
Clothes Washers	\$25 – \$100 / unit	Increased to \$36 – \$125 / unit
Heat Pump Water Heaters	\$700 – \$1,100 / unit	Increased to \$1,400 – \$2,200 / unit
Windows	\$2 – \$16 / sq ft	Increased to \$8 – \$20 / sq ft

Residential Measures in Development



- Cold Climate Heat Pumps (ccHP).
- Room/Saddlebag Heat Pumps.
- Central Heat Pump Water Heaters (CHPWH).



Questions?

BPA Low Income Energy Efficiency

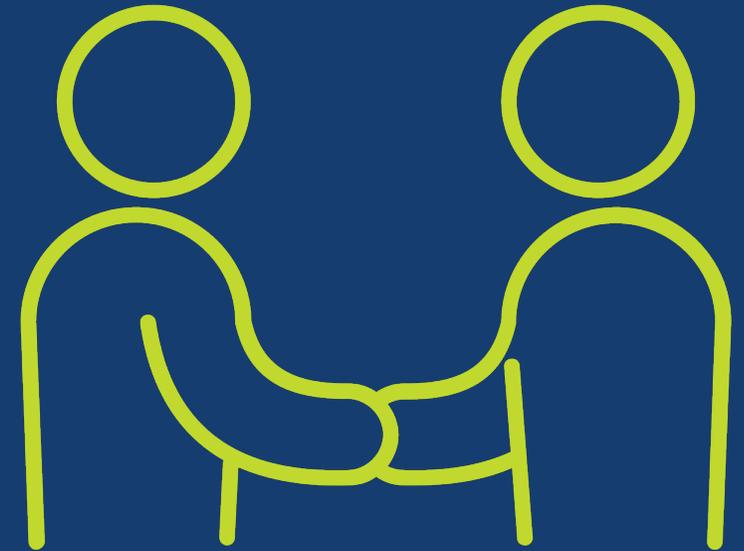
Amy Burke
Low Income Lead

Eastern Washington Utility Roundtable
June 5, 2025



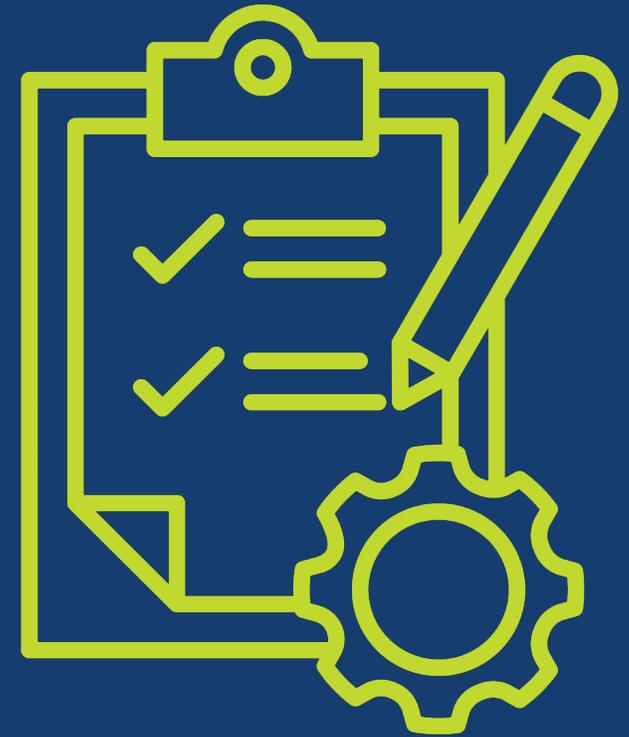
Low Income Energy Efficiency

- Income Qualification Clarification.
- Low Income Workgroup.
- Ongoing Efforts & Discussions.
- Highlighted Changes Effective October 1.
- Intro Low Income Webinar (*Coming in July*).
- Available Resources.
- Questions?



Low Income Qualification Clarification

*“Low income 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 qualifying low income levels, if provided.**”*



Low Income Energy Efficiency Regional Workgroup

- Hosted three times a year.
- Presentations & facilitated discussions.
- Selected Steering Committee.
- Next meeting coming June 2025.
- Posted on Low Income Page:
 - Workgroup Charter.
 - Discussion Topic Reference List.
 - Resources from previous meetings.

Structure and Organizing Principles:
BPA Northwest Low-Income Energy Efficiency Workgroup
(Amended February 2025)

Mission

The BPA Northwest Regional Low-income community action agencies, state agencies share information and develop best practices across the Northwest for income qualified

Background

This Workgroup initially began in response to the Post-2011 Review, leaving

Objectives

- Provide a venue for utilities, advocates, and programing within the Northwest
- Increase shared knowledge of CAPs
- Find simple solutions to streamlining but not limited to CAPs, utilities, and
- Identify barriers and solutions to

Workgroup Structure

Meeting Cadence & Duration

The intent of this workgroup is to convene and are available. The length of each individual meeting is

BPA commits to facilitation of this group to perform this function adequately or the safe and efficiently, BPA may decide to discontinue

Facilitation

BPA will provide a facilitator. A steering committee is [below for more details](#).

- Primary Coordinator: BPA Low-Income
- Back-Up Facilitator: BPA Energy Efficiency

Discussion Topic Reference List:
BPA Northwest Low-Income Energy Efficiency Workgroup
(Amended February 2025)

Background

This reference document is a list of topics that participants have expressed interest in discussing in the Low-Income Workgroup at some point. This list is not organized in any particular order. In the interest of transparency, the BPA Low-Income team felt it was necessary to have a repository of topics that are critical to people and organizations implementing Low-income programming around the region.

The selected Low-Income Workgroup Steering Committee is tasked with helping to prioritize this long list of discussions topics along with feedback from the wider Workgroup. This list will be added to periodically as well as used as a reference when considering future discussions.

For reference, this Workgroup's mission, background, objectives, and implementation structure are all included in the this group's "[Structure and Organizing Principles](#)".

Discussion Topic Reference List

General

- Energy Burden
- Outreach Strategies
- Health & Safety
- Client Education
- DOE WAP Updates
- HUD Code Updates
- Income Levels
- Manufacturer and Labor Liability Challenges
- Membership Challenges
- Point of Purchase Incentive Options
- Improved Implementation for Property Owners and Tenants
- How to Navigate Rising costs
- Agreeing Upon Criteria for Income Qualification (e.g. SMI, AMI, and Other Guidelines)
- Power Plan Updates
- Residential Building Stock Assessment (RBSA) Overview
- BPA Evaluation and Research Updates
- BPA 101: The Life of a BPA Energy Efficiency Measure
- Implications of Potential Added Electric Load and Costs when Fuel Switching

Collaboration & Partnerships

- Utility and CAP Partnership Development
- Contractor and CAP Partnership Development
- Collaboration of Program Sharing
- Contractor Dispute Resolution
- Integrating EE programs with Other Assistance Programs

Click on each page to access the documents online.

Low Income Energy Efficiency Regional Workgroup

Open Invitation!

Email aaburke@bpa.gov to get on our mailing list.



Highlighted Changes Effective October 1

- Program name changing from “Low Income Energy Efficiency” to “**Energy Efficiency Income Qualified**”.
- 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.



Ongoing Efforts & Discussions

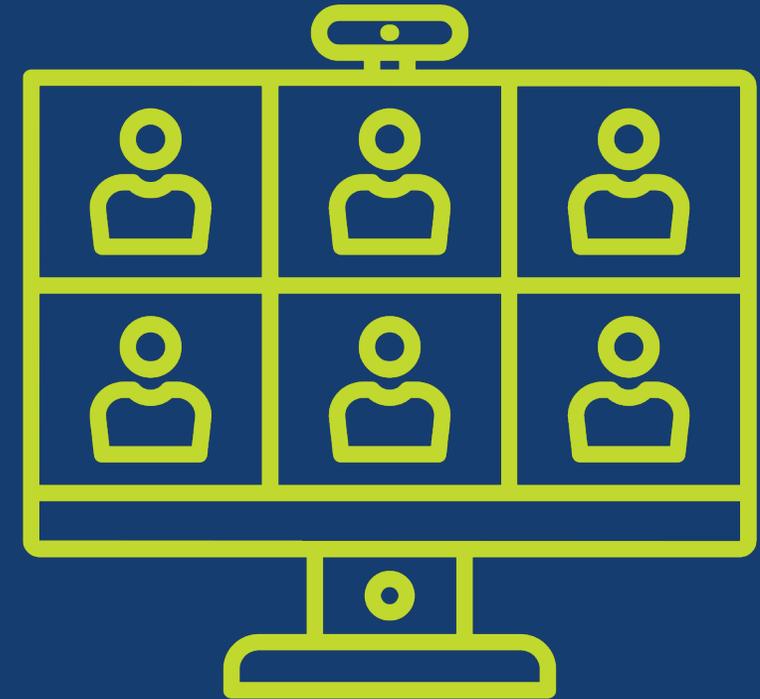
- How to improve support of workforce development.
- Streamline EEI coverage of CAP admin costs.
- Collaborating more with Habitat for Humanity.
- Supporting work in low-income multifamily housing.
- Opportunities for additional measure development.
- Expanding internal staffing support.



Intro to Low Income Webinar (Coming Soon)

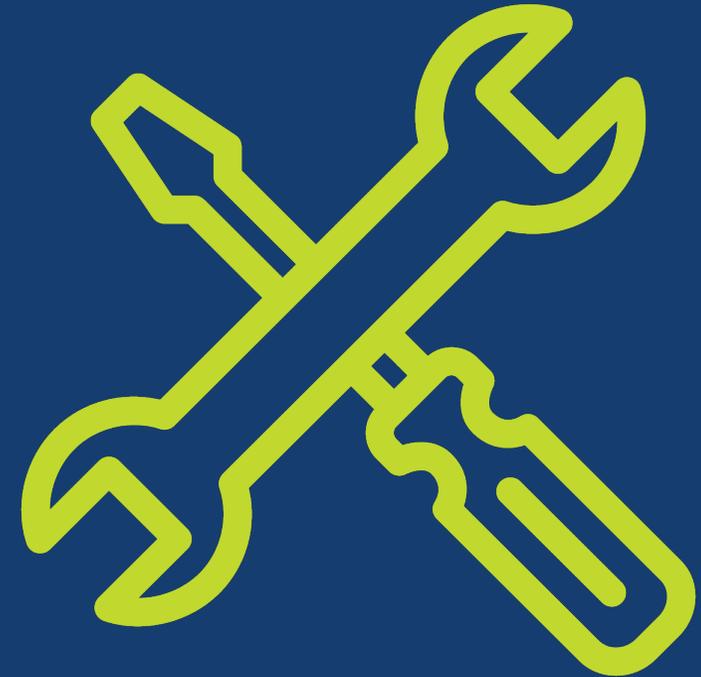
- Basics of starting a Low-Income Program.
- Available measures & documentation.
- Claiming additional repair costs.
- Outreach recommendations.
- Coordination with CAP agencies.
- Income qualification.

...and more...



Available Low Income Program Resources

- [BPA Low Income Page](#)
- [Low Income Optional Form & Income Verification Template](#) (*customizable*)
- [Low Income New Opportunities Guide](#)
- Contractor Recruiting through Comfort Ready Home



Questions?

Thank you!

Amy Burke

aaburke@bpa.gov

503.230.4364





Inland Power – CARE Program

Haley Puntney

How it Started



- Needed a beneficial way to spend EEI dollars.
- Found a contractor.
- Crunched a lot of numbers.
- Approval of program.
- Soft launch.

Launched end
of May 2024



Plenty more in
the pipeline



Hiccups



Work done in
60+ homes



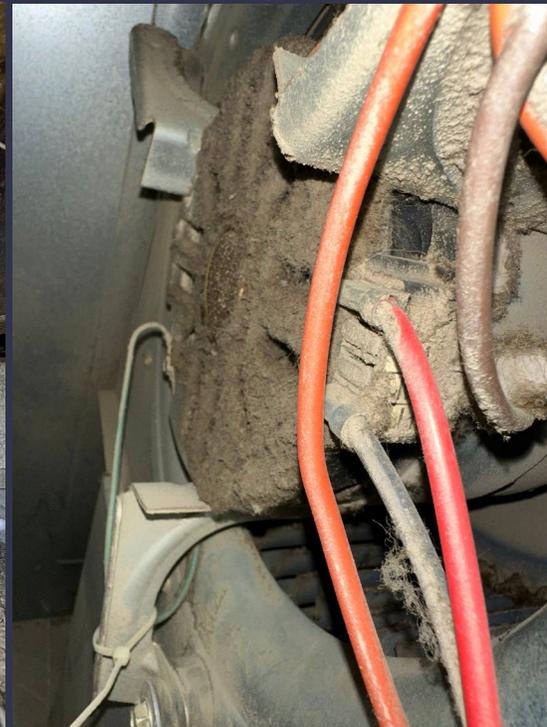
No advertising



Community
Engagement



How It's Going



Testimonials

“I really like the program. Helped me and my family a lot. I appreciate the help and the program. I hope you keep helping low-income families that are in need. Todd is wonderful as well.”



“I received assistance thru the CARE program and am very pleased.

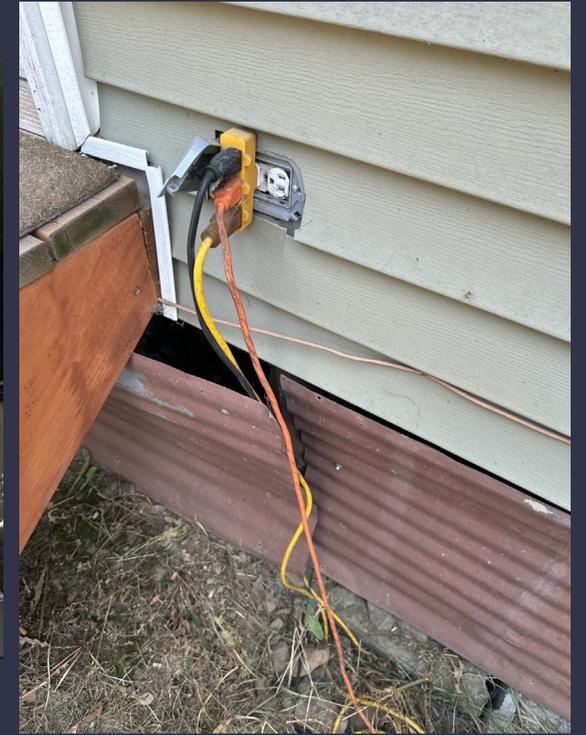
Both Carl and Todd were very thorough and professional. They fully explained what they were doing and why. They found multiple defects in my heating ducts, which was affecting how much heat my home was getting.

Todd scheduled by email a date and time to return and make the appropriate fixes to my system. They showed up promptly and were a pleasure to work with. I can't wait to see how much more efficient my system works this winter! As a Senior on a fixed income, this was a real blessing to me. Thank you for making this program available!”



**Inland
Power**
and Light Company

More Pictures



Questions?



PLATFORM IS
NON-INSULATING

Oregon Trail Electric Cooperative

Susie Snyder and Nini Valerio

Eastern Washington Utility Roundtable
June 4, 2025



Oregon Trail Electric Cooperative

- How we delivered a low-income rebate program in a rural area.
- How we engaged CAP agencies.
- Repair costs and how we are dealing with those.



Time for a break!



Online Lighting Calculator

Eric Mullendore
Commercial and Industrial
Sector Lead

Eastern Washington Utility Roundtable
June 4, 2025



Project Goals

The Online Lighting Calculator (OLC) delivers:

- Reliability.
- Cybersecurity.
- Modernization.
- Centralization.



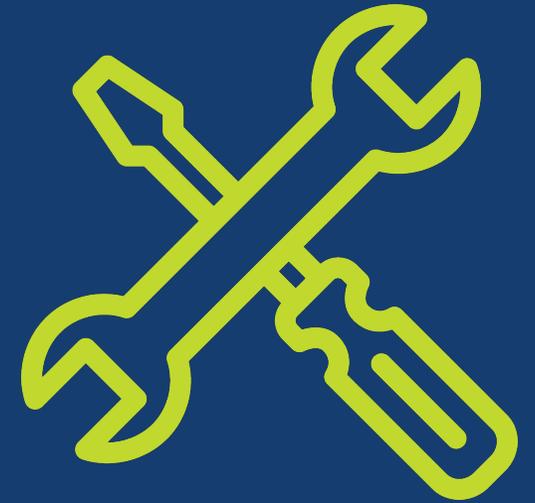
Project Goals



We are here

Support Resources

- Page on [bpa.gov](https://www.bpa.gov) with key information and training resources:
 - <https://www.bpa.gov/energy-and-services/efficiency/ee-sectors/commercial/online-lighting-calculator>
 - User Manual.
 - On-Demand Training Videos.
- Email support requests to lighting@bpa.gov.



Hancock Cloud and MINT

The OLC consists of two elements:

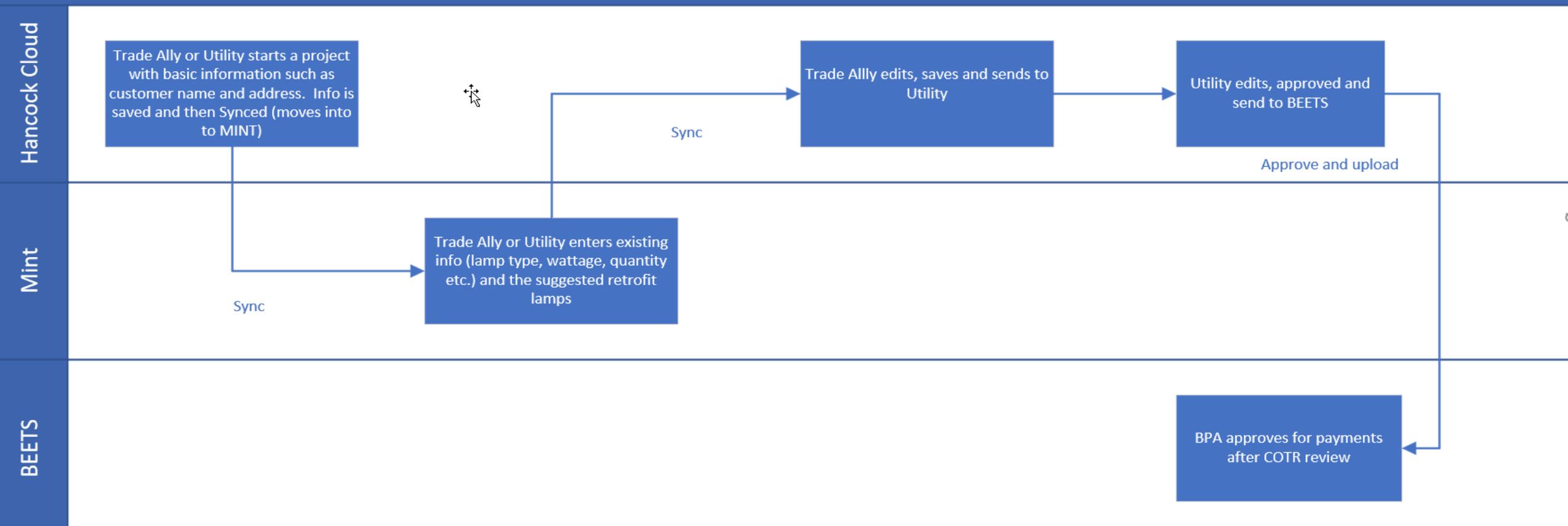
- **Hancock Cloud** is a website, accessed via a browser, that handles a number of administrative functions.
- **MINT** is an application, downloaded on a tablet or desktop, that captures project details and calculations.

Note: Any relatively modern tablet or pc can run MINT. Apple systems must be iOS 18 or higher.



Project Workflow

Basic Workflow for the OLC



Hierarchy of Roles

BPA Admin: Full view to all projects and tables and ability to add others.



BPA User: Ability to do all routine tasks.

Utility Admin: Full view to their (utility specific) projects, change incentive tables and add other users to the utility.



Utility User: Ability to do all routine tasks within their utility.

Trade Ally Admin: Full view to all of their (trade ally specific) projects and add other users to the org.



Trade Ally User: Ability to do all routine tasks within their trade ally org.

Getting Started

- Hancock Cloud is here:
- bpa.hancocksoftware.com/HEEC/#/login
- User names and logins to be provided by BPA. (They are the same for the Cloud and MINT.)
- Upload MINT from the Apple app store or this link:
bpa.hancocksoftware.com/mint
- Run the installation .exe, an install wizard will assist you with the install process.

Questions?

Utility Roundtable

Eastern Washington Utility Roundtable
June 4, 2025



Utility Share Outs

- **What's on your mind? Please share or ask anything you like!**
 - Recent successes?
 - Energy Efficiency budget status: need more or give to neighbor?
 - Concerns/challenges now or in the future?
 - Future opportunities or areas to improve?
 - What are you excited about?



**Thank you and please join us for
dinner & networking at:**

**Budd's Broiler
450 Columbia Point Dr.
Richland, WA**



Adjourn!



**Good Morning!
Eastern Washington
Utility Roundtable
June 5, 2025**



BPA Energy Efficiency Marketing Team

Eastern Washington Utility Roundtable
June 5, 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

COLLECTIVE SKILLS



Graphic Design.



Production Design.



Technical, Public Relations and Creative Copywriting/editing.



Presentations.



Instructional and Social Media Videos.



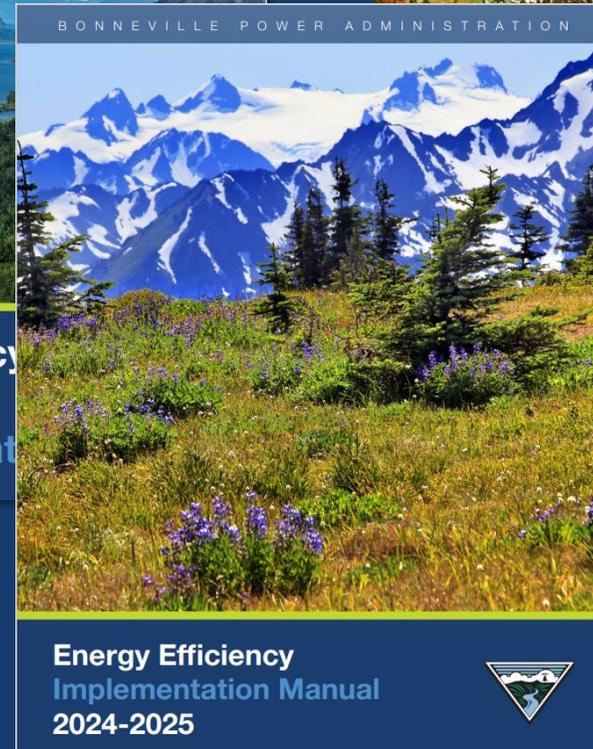
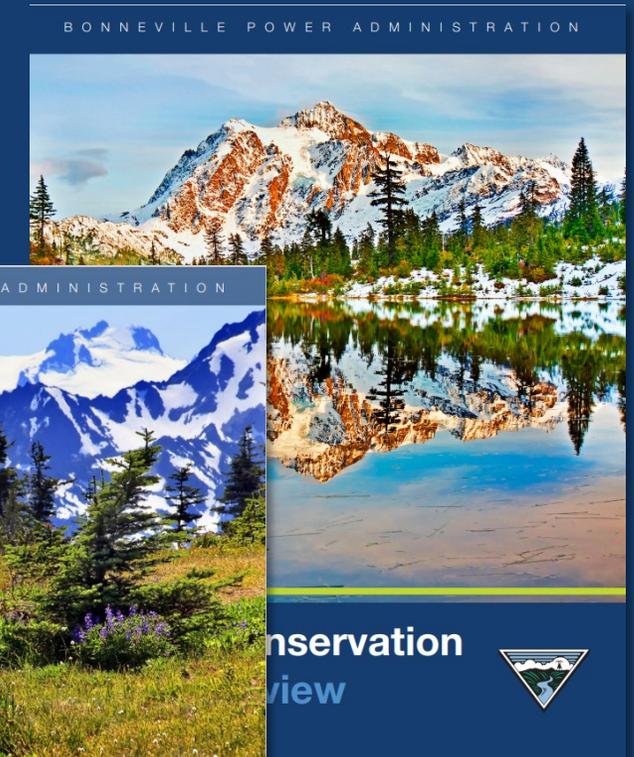
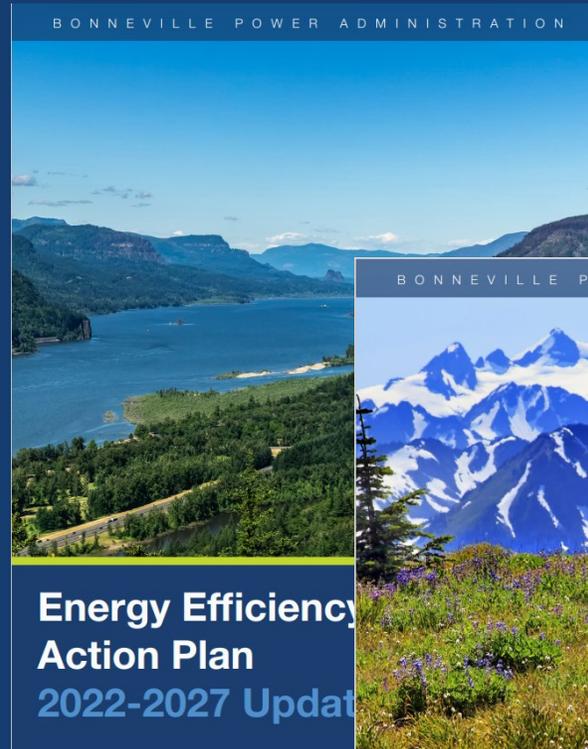
Web Design.



Marketing Strategy and Planning.

MARKETING TEAM PUBLICATIONS

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



SERVICES

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

NLI
NORTHWEST LIGHTING INCORPORATED
The power of local service

Please Return This Completed Form with other required paperwork To: Evergreen Consulting Group LLC, Mike.porter@evergreen-efficiency.com

Ducted Air-Source Heat Pump Data Collection Tool

This form can be used to document installation information for homes converting to a ducted air-source heat pump (ASHP) and a ducted variable-speed heat pump (VSDHP), or homes upgrading to a ducted VSDHP. All sections must be completed by the installer at the time of installation.

Documentation to submit with this form:

- Copy of this completed form
- Purchase receipt or invoice, including the heat pump make and model number
- AHRI Certificate
- If the unit has a variable-speed compressor, include manufacturer documentation that the outdoor compressor includes variable-speed or inverter driven technology (e.g. specification sheet, brochure, or screen shot). Note: including the term "variable-speed" on the invoice will not satisfy this requirement. Additional documentation is required.

Eligibility

- Available for existing single-family and existing manufactured homes
- Heat pumps must be AHRI rated and meet current federal minimum standards for HSPF2 and SEER2
- If the unit only has an HSPF and SEER value, please contact the utility for verification of eligibility
- For a conversion to an ASHP or VSDHP, existing heating system type must be an electric forced-air furnace, with or without air-conditioning
- For an upgrade to a VSDHP

Site Information

Customer Name: _____
 Install Date: M / D / Y _____
 Home Type: Single-Family Manufactured

Existing Heating System

Electric Forced Air
 Air Source Heat Pump
 Non-Electric Space Heating (wood, oil, propane)

New Heat Pump Equipment

Heat Pump Manufacturer: _____
 AHRI Certificate #: _____
 Heat Pump Model #: _____
 Outdoor HP Capacity: _____

Controls

HP Thermostat Make: _____
 Auxiliary heat lockout: YES NO



Understanding and Managing Your Utility Bill

Heating during cold months and cooling during hot months can significantly increase energy use.



Seasonal Changes Can Cause Higher Bills

Heating during cold months and cooling during hot months can significantly increase energy use.

Major Energy Users in Your Home

- Home heating
- Cooling (air conditioning)
- Water heating
- Refrigerators, clothes dryers, and other appliances

WE'RE HERE TO HELP!
 For additional information call 208-647-4644 or visit albionidaho.gov



Planning Ahead to Lower Your Bills

Investing in energy-efficient upgrades like insulation, duct sealing, and a heat pump water heater can help reduce your bills over time. While these upgrades require upfront costs, they can lead to long-term savings and improved home comfort. Rebates, tax incentives, and payment assistance may be available.



LED LIGHTING

FOR COMMERCIAL INSTALLATIONS

20% BONUS INCENTIVE!

Please contact Idaho Falls Power for specific program requirements.

www.ifpower.org



CONTRACTOR TRAINING EVENT

Bonneville Power Administration's Non-Residential Lighting Calculator version 6.0

JOIN US! FREE contractor training webinar!

As the demand for energy-efficient solutions continues to surge, mastering non-residential lighting installations and providing customer solutions is crucial for staying competitive in today's market.

WHAT WE'LL COVER

- Available utility rebates
- How to get on a utility contractor list
- When is a pre and/or post audit needed
- Required documents for the utility
- How to properly fill out the calculator

The benefits of energy efficient lighting, including easy installation, great savings and incentives, make them an attractive option for contractors and businesses.



Ready to grow your business and provide more value for your customers?

Date:
Thursday
May 9, 2024

Time:
7:15am - 9:00am PDT

JOIN MEETING ►

Meeting number:
(access code)
2830 305 4857

Meeting password:
cvR5pKiN744

Join by phone:
+1-415-527-5035

Save this meeting to your Outlook Calendar



REGISTER ►

Attendance may qualify you for a utility contractor referral program.

SERVICES

Press Kits

- Press releases.
- Articles.
- Case studies.
- Project Success Posters.



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 290,723 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 kWh Annual Energy Savings

\$96,410 Columbia River PUD Incentive Payment

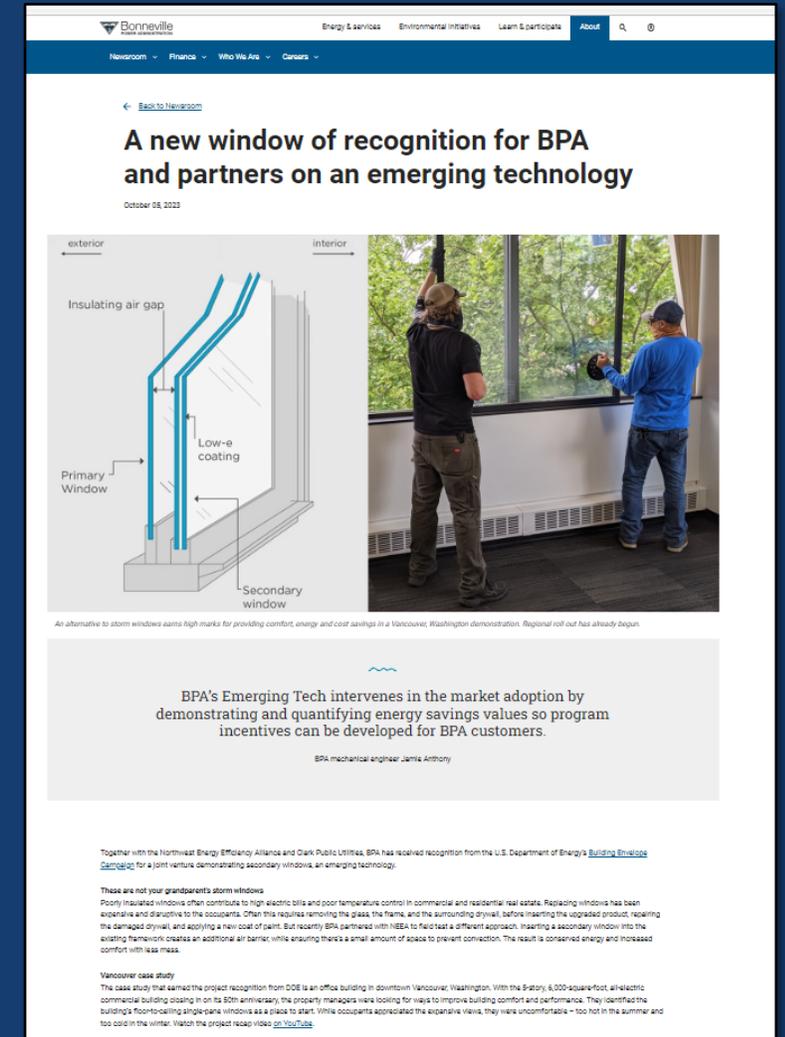


John Gumm building exterior with new windows

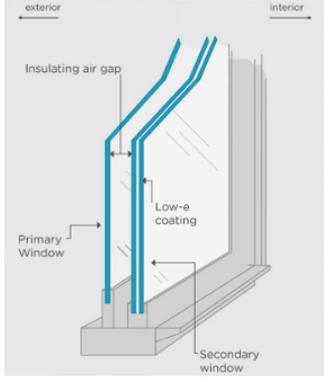


New variable refrigerant flow HVAC system

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



A new window of recognition for BPA and partners on an emerging technology
October 08, 2023



An alternative to storm windows earns high marks for providing comfort, energy and cost savings in a Vancouver, Washington demonstration. Regional roll out has already begun.

BPA's Emerging Tech intervenes in the market adoption by demonstrating and quantifying energy savings values so program incentives can be developed for BPA customers.
BPA mechanical engineer Jamie Anthony

Together with the Northwest Energy Efficiency Alliance and Clark Public Utilities, BPA has received recognition from the U.S. Department of Energy's [Building Envelope Campaign](#) for a joint venture demonstrating secondary windows, an emerging technology.

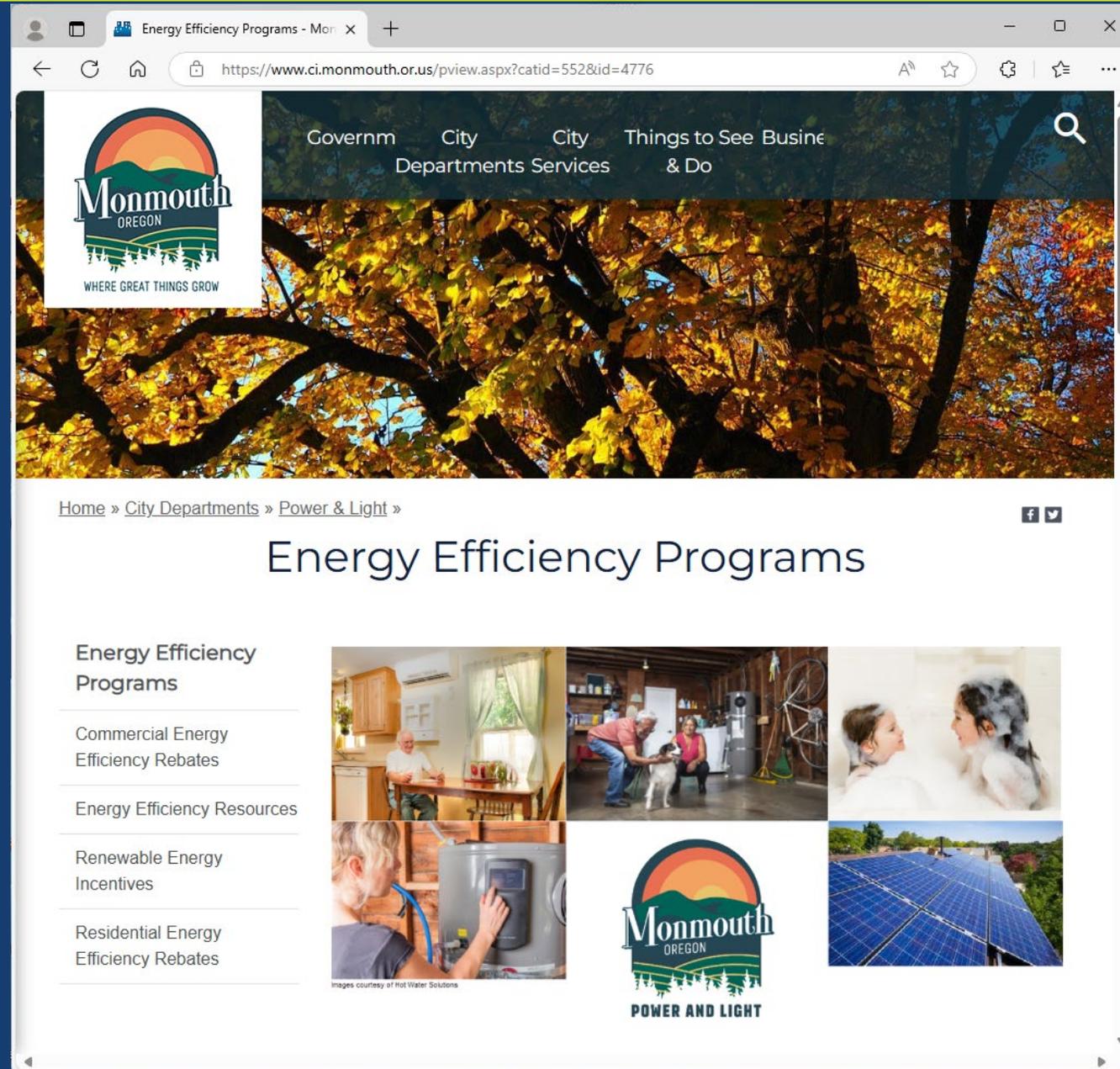
These are not your grandparent's storm windows
Poorly insulated windows often contribute to high electric bills and poor temperature control in commercial and residential real estate. Replacing windows has been expensive and disruptive to the occupants. Often this requires removing the glass the frame, and the surrounding drywall, before inserting the upgraded product, resealing the damaged drywall, and applying a new coat of paint. But recently BPA partnered with HBEA to field test a different approach. Inserting a secondary window into the existing framework creates an additional air barrier, while ensuring there's a small amount of space to prevent convection. The result is conserved energy and increased comfort with less mess.

Vancouver case study
The case study that earned the project recognition from DOE is an office building in downtown Vancouver, Washington. With the 8-story, 6,000-square-foot, all-electric commercial building closing in on its 50th anniversary, the property managers were looking for ways to improve building comfort and performance. They identified the building's floor-to-ceiling triple-pane windows as a place to start. While occupants appreciated the expansive view, they were uncomfortable – too hot in the summer and too cold in the winter. Watch the project recap video on [YouTube](#).

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.

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

Bonneville
POWER ADMINISTRATION

COMPANY LOGO
PUBLIC UTILITIES

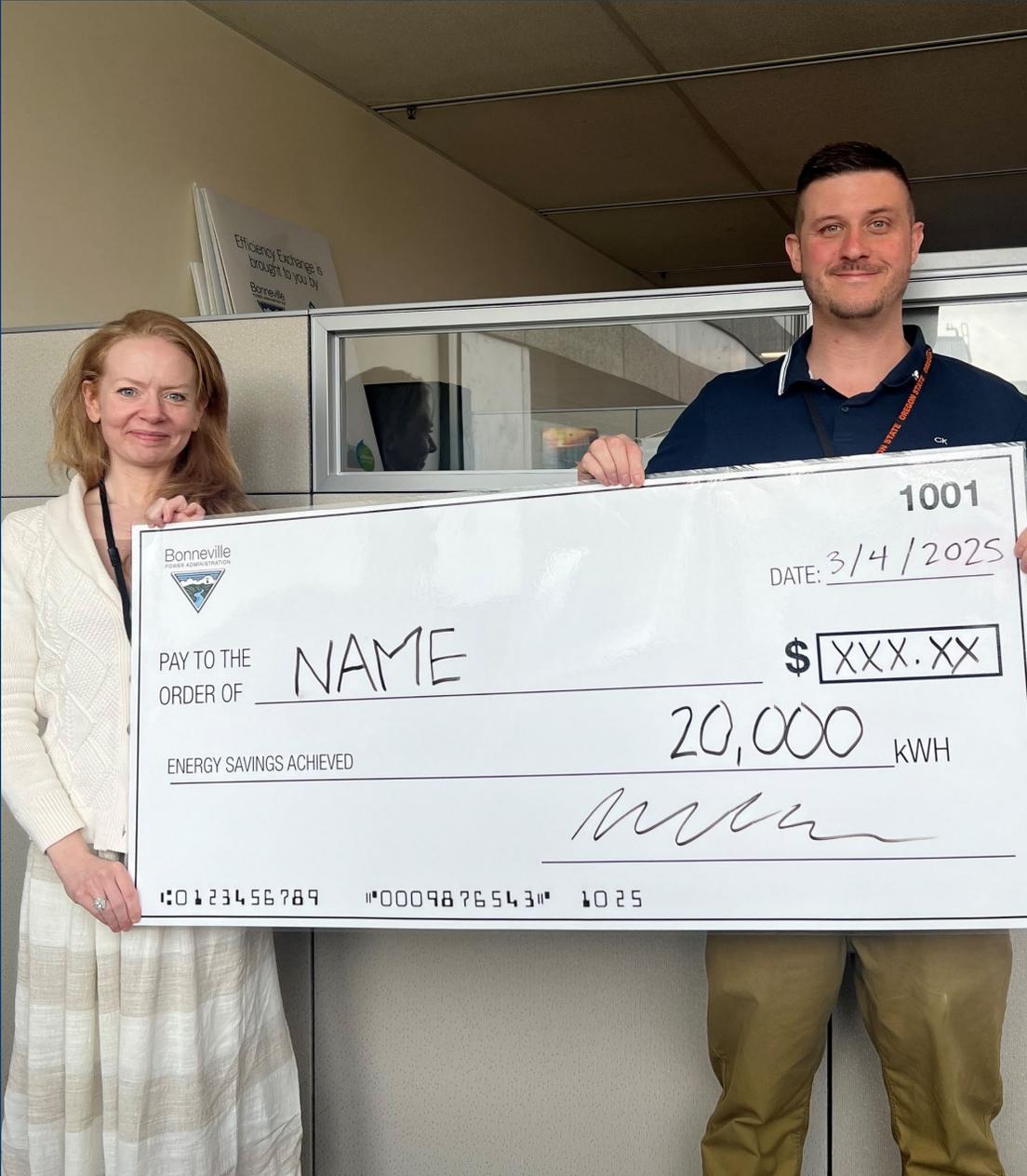
1001

DATE: _____

PAY TO THE
ORDER OF _____ \$ []

ENERGY SAVINGS ACHIEVED _____ kWH

1025



UPDATED TEMPLATES

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.

applications on air compressors and vacuum pumps, heat exchangers and large heat pump water heaters.

Drip (MDI)
for all of your crops through the converting your center pivot to the ground. This greatly reduces water evaporation during necessary to irrigate your crop. MDI uses pressure controlled eliminates evaporative water loss in the air and on the foliage. with good results.

ly. However, many fields are not uniform. Some terrain would her areas. ZVRI equipped pivots can control the irrigation down wings and improves yield and crop quality in many cases. Your opportunities.

ly opportunities to increase the efficiency of a pumping plant y include lowpressure conversion for center pivots and laterals, replacing pumps, and trimming pump impellers. A cost share is

- Drought Resiliency**
- ✓ 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.

YOUR UTILITY CAN HELP!

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

REQUIREMENTS

Thermostat that is not web enabled.

Unconditioned spaces are not eligible.

Zone must serve a single zone.

List.

as follows:

Occupied hours (heating and/or cooling, as applicable).

Unoccupied hours (e.g., during unoccupied hours or when there is a demand for heating or cooling).

...

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



UPDATED TEMPLATES



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 for
\$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!

Questions?

Agricultural Energy Efficiency

Eastern Washington Utility Roundtable
June 5, 2025



Rebates for VFDs on Ag Pumps - Overview

- New Pump – Turbine or Centrifugal.
- Existing Pump – Turbine or Centrifugal.
- Rebated on the motor hp (not the pump or VFD hp).
- Eligibility also based on the head pressure/flow rate.
- BPA engineers will complete the form for you!

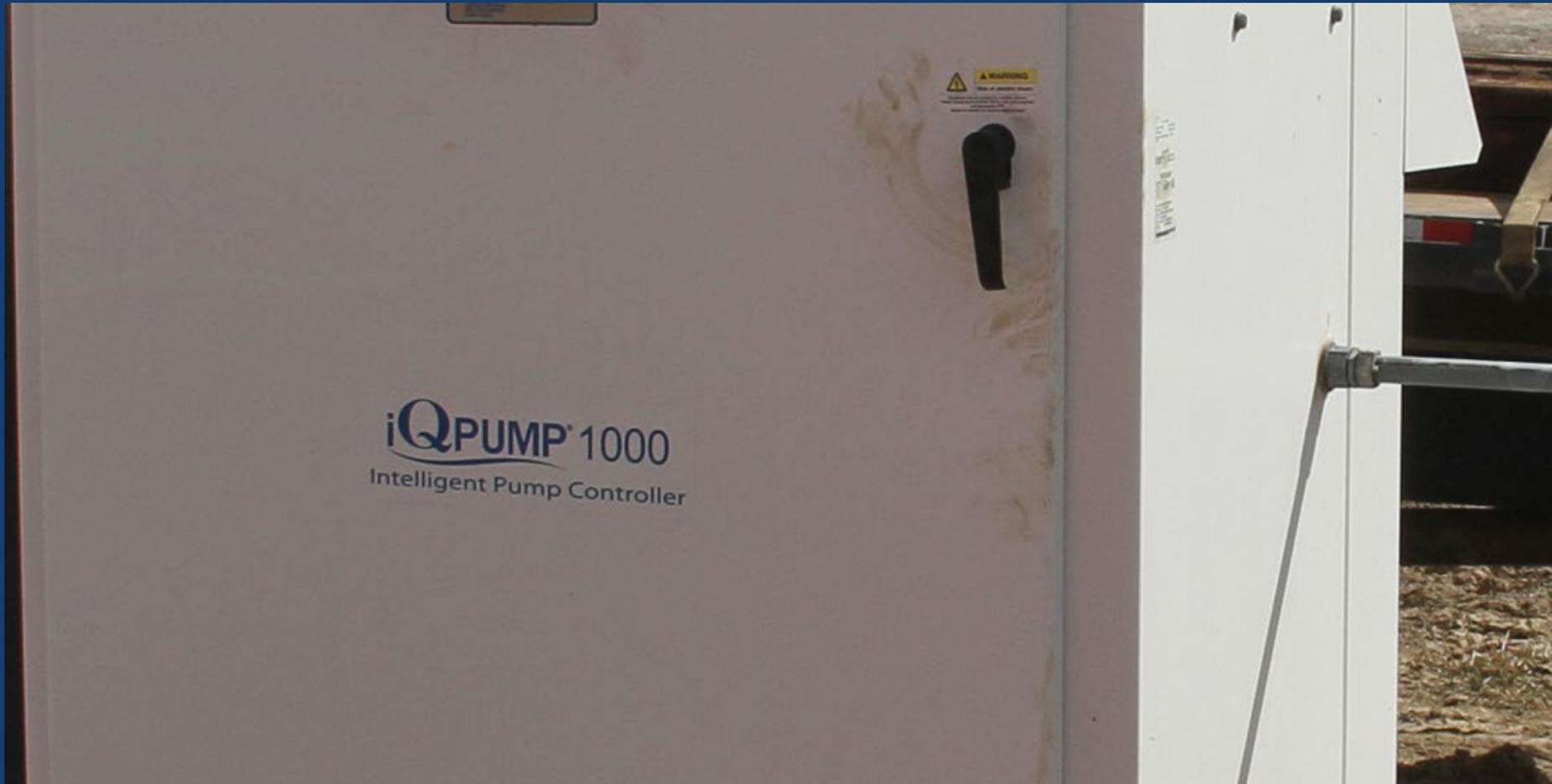
Vertical turbine pump, all we can see is the motor



VFD (white) & Transformer (gray)



VFD Brand and Model



End suction centrifugal pump



156 10.3 MB



27%



Motor Nameplate (for HP)



Pump Nameplates

Contain Phone Number & Serial Number
(to call vendor for well info for calculator)



Pump Nameplate found on the discharge head under the motor



- Calculators (New/Existing Pump).
- Easy VFD Application Form (for your member).
- BPA Engineers will complete the calculator for you!

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

Agricultural Sector

- [ANSI/ASABE Audit Standard](#)
- [BPA Ag Energy Audit Standard](#)
- [ASABE Guide to Ag Energy Consultants May 2022](#)
- [Ag Energy Audit Screening Form](#)
- [Ag Energy Audit TSP Resources](#)
- [ODOE Audit Program](#)
- [Existing Centrifugal and Turbine Pump VFD Deemed Savings Tool](#)
- [New Construction Pump VFD Deemed Savings Tool](#)
- [VFD Rebate Form](#)

1 AGRICULTURE NEW CONSTRUCTION - TURBINE AND CENTRIFUGAL PUMP VFD CALCULATOR					
2					Version Date: 3/1/2025
3	Please fill in all of the green highlighted fields. Add any explanatory notes where needed.				
4	Use this tool to determine eligibility and energy savings related to VFDs installed on new pumping plant installations in Ag applications.				
5					
6	A. IRRIGATOR INFORMATION				
7	Estimated Date of VFD Installation:	January 2, 2025			
8	Irrigator Member Name:	Jack N. Beanstalk			
9	Address:	Cornstalk Lane			
10	City, State, ZIP:	Idaho Falls, ID			
11	Serving Electric Utility:	Rural Coop	phone#		
12	Account Number or	123456			
13	Meter Number	54123			
14	Estimated Annual Energy Usage	306,414	kWh per year		
15	Melded Average Cost per kWh:	0.065	\$/kWh		
16					
17	B. MOTOR DATA				
18	Irrigation Pump Rated HP for VFD:	200	HP		
19	Total Rated HP on meter: (from below)	273	HP		
20					
21	C. PUMP DATA				
22	Pump Type (Centrifugal or Turbine):	Turbine	use pull down		
23	Pump Manufacturer:	USA Pumps			
24	Pump Model:	123-abc			
25	Rated Head (or TDH) (nameplate or curve):	550	feet	WHP check = 167	
26	Rated Flow (from nameplate or curve):	1,200	gpm	EHP check = 231	
27	Pump Depth (feet):	400	feet	use zero for centrifugal	
28	Estimated Operational Lift (feet):	360	feet		
29	Maximum Expected Lift (or inlet pressure in feet):	370	feet	(note 2.31 feet per PSI)	
30	Lowest Expected Lift:	350	feet		
31	Discharge pressure Maximum Lift (psi):	90	psi gauge at pump		
32	Discharge pressure Minimum lift (psi):	105	psi gauge at pump		
33	Expected lowest discharge pressure with VFD (psi):	85	psi gauge at pump		
34	Highest Expected Flow (gpm):	1,200	gpm	two pivots	
35	Lowest Expected Flow (gpm):	900	gpm	one pivot	
36	Highest Total Dynamic Head calced (ft):	583	feet		
37	Lowest Total Dynamic Head calculated (ft):	551	feet		
38	Variation in Flow requirements during season (calc):	25%		Variation in flow must be at least 20% percent for Turbines, or	
39	Variation in Head during season (calc):	6%		variation in head requirements of at least 10% percent for turbines and 20% for Centrifugal	

41	D. METER USAGE ESTIMATES						
42							
43	Equipment Description	Rated Load	Units (kW or HP)	Equipment load as percentage of metered load	Motor Load Factor	Estimated hours of Operation (for pivots assume 33% run time)	Estimated Annual Energy Consumption (kWh)
44	Main Pump (where VFD to be installed)	200	HP	73.3%	0.9	1,800	241,704
45	Centrifugal Booster Pump (if any)	50	HP	18.3%	0.8	1,800	53,712
46	Pivot 1 (6 towers at 1 HP each)	6	HP	2.2%	1	594	2,659
47	Pivot 2 (10 towers at 1.5 HP each)	15	HP	5.5%	1	594	6,647
48	End gun booster pump (pivot 2)	2	HP	0.7%	0.9	1,260	1,692
49				0.0%			0
50				0.0%			0
51				0.0%			0
52	TOTALS =	273				Estimated Usage Total =	306,414
53							
54							
55	E. CROP AND IRRIGATION SYSTEM TYPE DATA						
56							
57		Year	Metered kWh	Crops grown	Acres	Irrigation System type	
58							
59	1 year post installation of VFD	2025	?	wheat, alfalfa	120,120	pivot with drops	
60							

63	F. DEEMED ENERGY SAVINGS AND INCENTIVE			
64	Deemed Site Savings per unit (kWh/HP)		440	kWh/HP
65	New Construction Pump VFD Incentive Rate (\$/HP)		\$100	
66	Site Annual Energy Savings (kWh/HP*HP)		88,000	kWh/year
67	Busbar Annual Energy Savings (site savings * 1.11183))		97,841	kWh/year
68	New Construction Pump VFD Incentive		\$20,000	
69				
70	Incremental Cost of VFD =		\$50,000	
71	Simple Payback with incentive =		5.2	years
72				
73	If any questions, please call Travis Wood at 208-612-2131			
74				
75	ENTER THE FOLLOWING VALUES IN THE DEEMED MEASURE UPLOAD:			
76	UES REFERENCE NUMBER =	AMDMC40240	DEEDY	Ref No
77	QUANTITY =	200		HP is Unit
78	CALCULATOR SAVINGS PER UNIT =	440.00		kWh/HP
79	CALCULATOR BC Ratio =	1.96		

Questions?

Distribution System Improvements

Tony Koch
Customer Service Engineer



Utility Distribution Strategic Priorities

Utility Distribution

Increased communication with utility management to promote the value of Distribution System Improvements.

2024-2027 Priorities

Combining System Improvement outreach with Conservation Voltage Reduction (CVR) and Daily Demand Voltage Reduction (DVR).

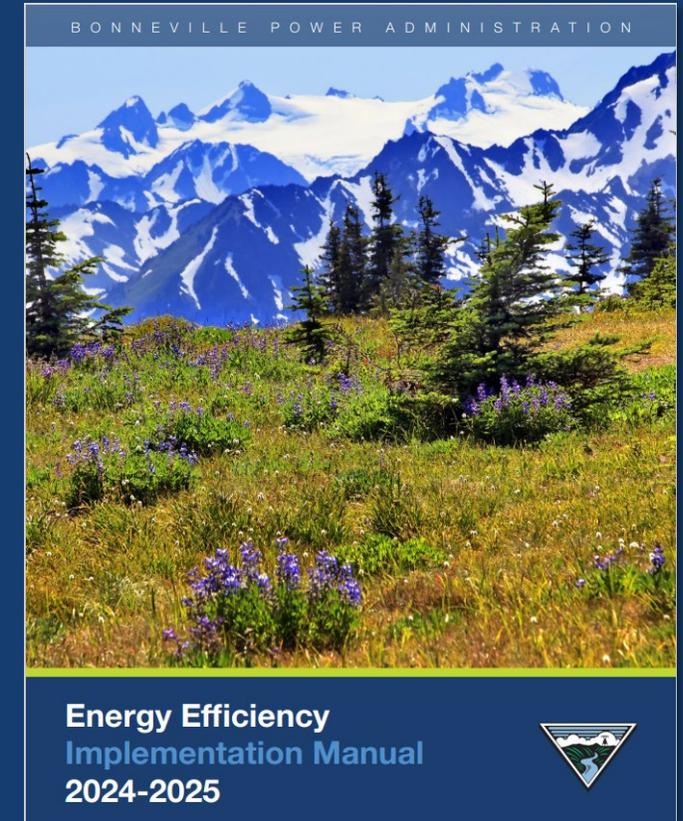


Implementation Manual – Section 12

What Measures are in this Sector?

Two main groups: FY24+

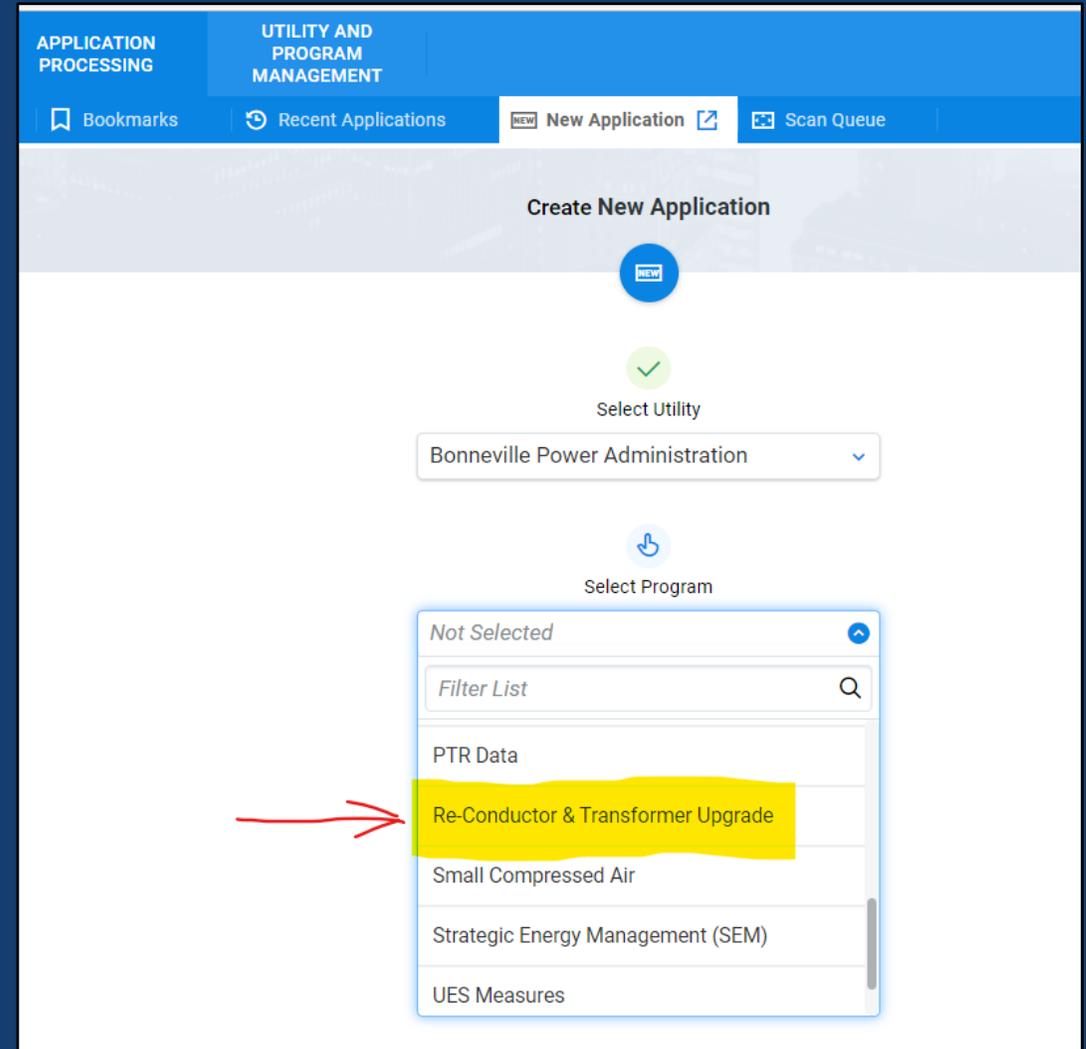
1. Re-conductor & Transformers (35 year measure):
\$0.38/kWh (a **\$.03** increase).
 - Several other measures: voltage increase, power factor correction, etc. but they are infrequently submitted/reported.
2. CVR / VO (10 year measure life):
\$0.33/kWh incentive (a **\$.08** increase).
 - Conservation Voltage Reduction, also referred to Voltage Optimization.



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 1 file).
- More automated data entry fields.
- Can handle up to 6 transformer and 6 reconductor measures in 1 file.



Utility Project Submittals in FY22 - FY23

Re-conductor &

Transformers

(35 year measure)

\$0.38/kWh

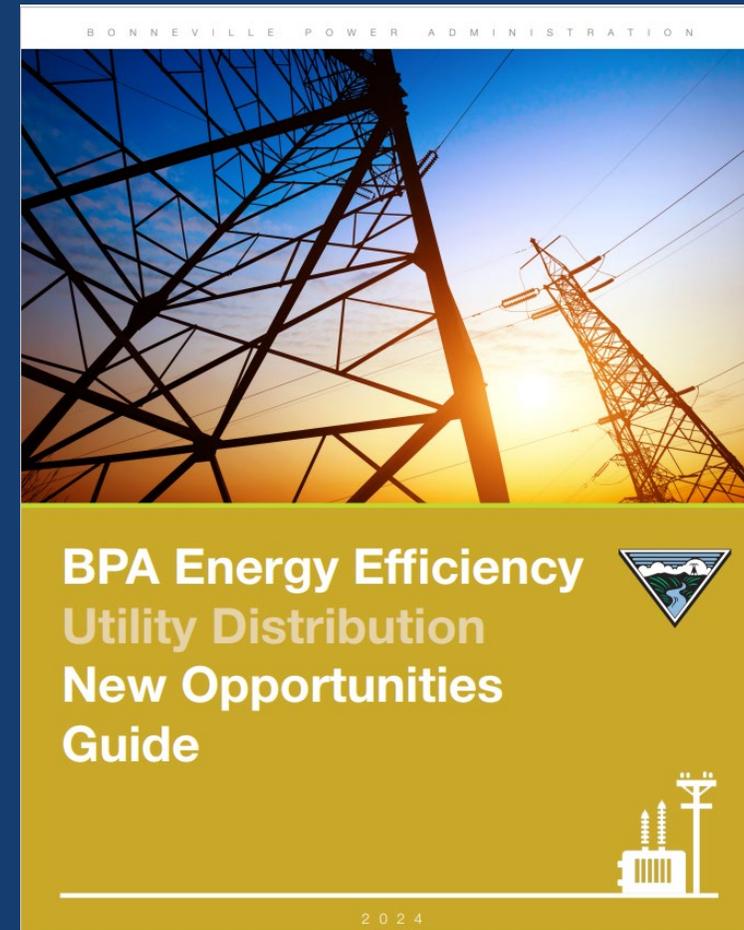
(FY24+ rate)

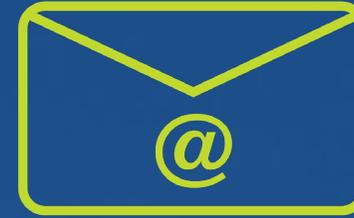
Utility		Program / Savings Type	Busbar Savings (kWh)
Inland	(east-side)	Re-Conductor & Transformer	605,779
Central Lincoln		Re-Conductor & Transformer	224,824
Fall River	(eastside)	Re-Conductor & Transformer	303,626
Yakama	(eastside)	Re-Conductor & Transformer	114,994
Idaho County	(eastside)	Re-Conductor & Transformer	143,593
Vigilante	(eastside)	Re-Conductor & Transformer	1,345,572
East End	(eastside)	Re-Conductor & Transformer	94,420
Oregon Trail	(eastside)	Re-Conductor & Transformer	828,630
Benton PUD	(eastside)	Re-Conductor & Transformer	23,299
Kittitas	(eastside)	Re-Conductor & Transformer	204,310
Coos-Curry		Re-Conductor & Transformer	616,676
Columbia REA	(eastside)	Re-Conductor & Transformer	147,060
Okanogan PUD	(eastside)	Re-Conductor & Transformer	59,318
Columbia River		Re-Conductor & Transformer	64,899
Idaho Falls Power	(eastside)	Re-Conductor & Transformer	165,790
Benton	(eastside)	Custom Projects Option 1 (Reconductor)	181,505
Inland	(east-side)	Custom Projects Option 1 (Reconductor)	121,006
Tillamook		Custom Projects Option 1 (Voltage Increase)	436,511
Yakama	(eastside)	Custom Projects Option 1 (Reconductor)	562,794
Tacoma Power		Custom Projects Option 2 (CVR)	637,499
Okanogan PUD	(eastside)	Custom Projects Option 1 (Reconductor)	112,161
DOE-RL	(eastside)	Custom Projects Option 1 (Reconductor)	179,502
Kittitas	(eastside)	Custom Projects Option 1 (Reconductor)	182,598
Vigilante	(eastside)	Custom Projects Option 1 (Reconductor)	184,583
		Total (kWh/year)	7,540,948
		Total (aMW)	0.86

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

Tony Koch, PE, CEM,
Mechanical Engineer

jakoch@bpa.gov

206.220.6777

Time for a break!



BPA Program Support

Comfort Ready Home
Energy Smart Industrial

Eastern Washington Utility Roundtable
June 5, 2025



Energy Smart Industrial Program Update

Tony Simon & Austin Rogers

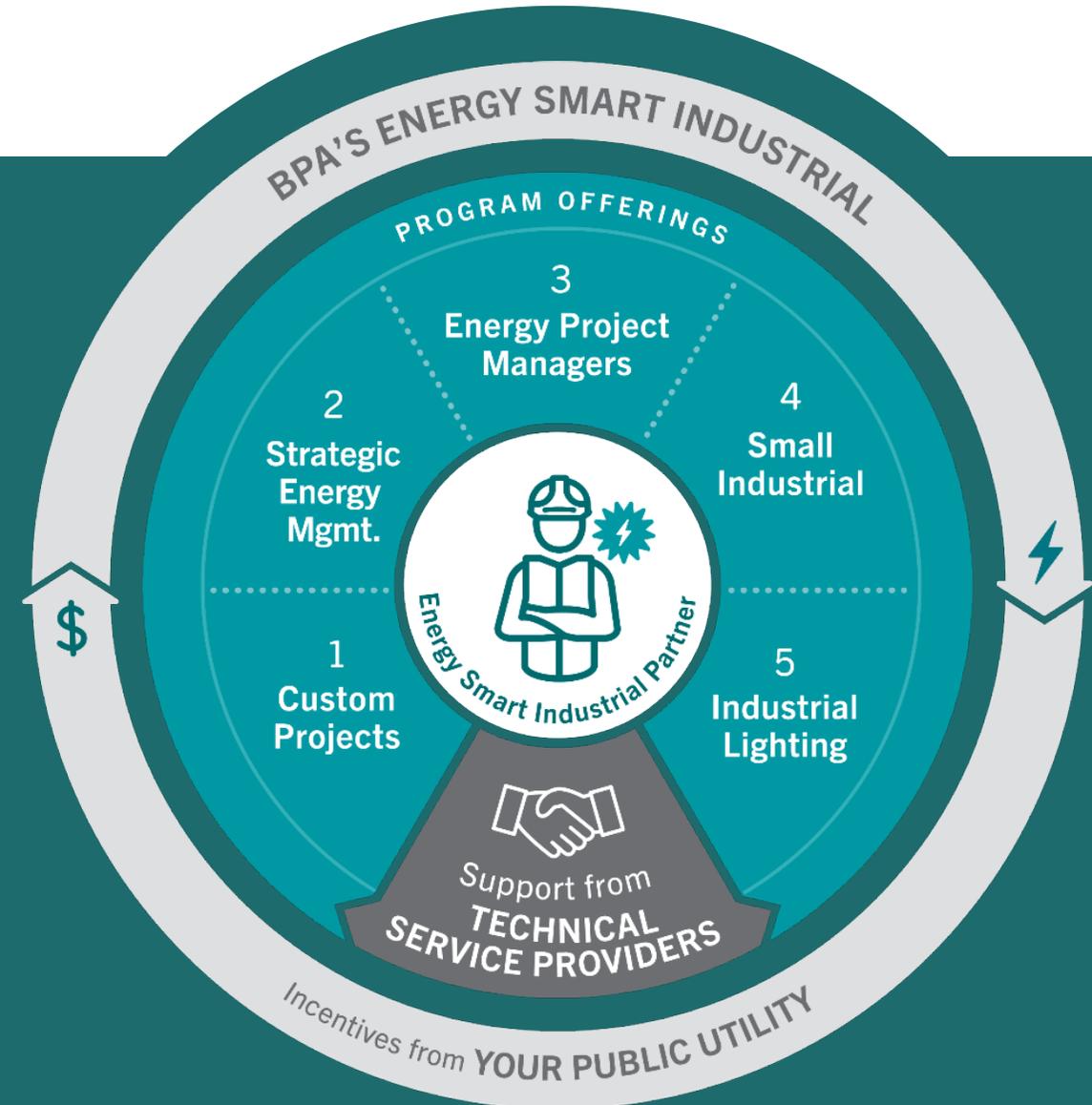
June 5, 2025



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



ESIP Territories

Bill Kostich

Western / SW
Washington

O: 503.928.7461 | C: 503.887.3820
bill.kostich@energysmartindustrial.com



Victoria Landwehr

Central / NE
Washington

O: 509.524.8789 | C: 360.431.4541
victoria.landwehr@energysmartindustrial.com



Nosh Makujina

NE Oregon, S Idaho,
NW Nevada, & W Montana

O: 509.524.8880 | C: 208.631.5961
nosh.makujina@energysmartindustrial.com



Henry Griffith

SW Washington
& NW Oregon

O: 971.244.8592 | C: 360.980.0002
henry.griffith@energysmartindustrial.com



Todd Toburen

NW Washington
& Puget Sound

O: 971.202.1626 | C: 503.915.1431
todd.toburen@energysmartindustrial.com



Christian Miner

SW / South-Central Washington,
& W / North-Central Oregon

O: 971.230.5857 | C: 503.866.6977
christian.miner@energysmartindustrial.com



Austin Rogers

Central Washington,
Columbia Basin, & NE Oregon

O: 458.212.37040 | C: 425.417.8532
austin.rogers@energysmartindustrial.com



Jeff Bernacki

SW / South-Central Oregon,
& NE California

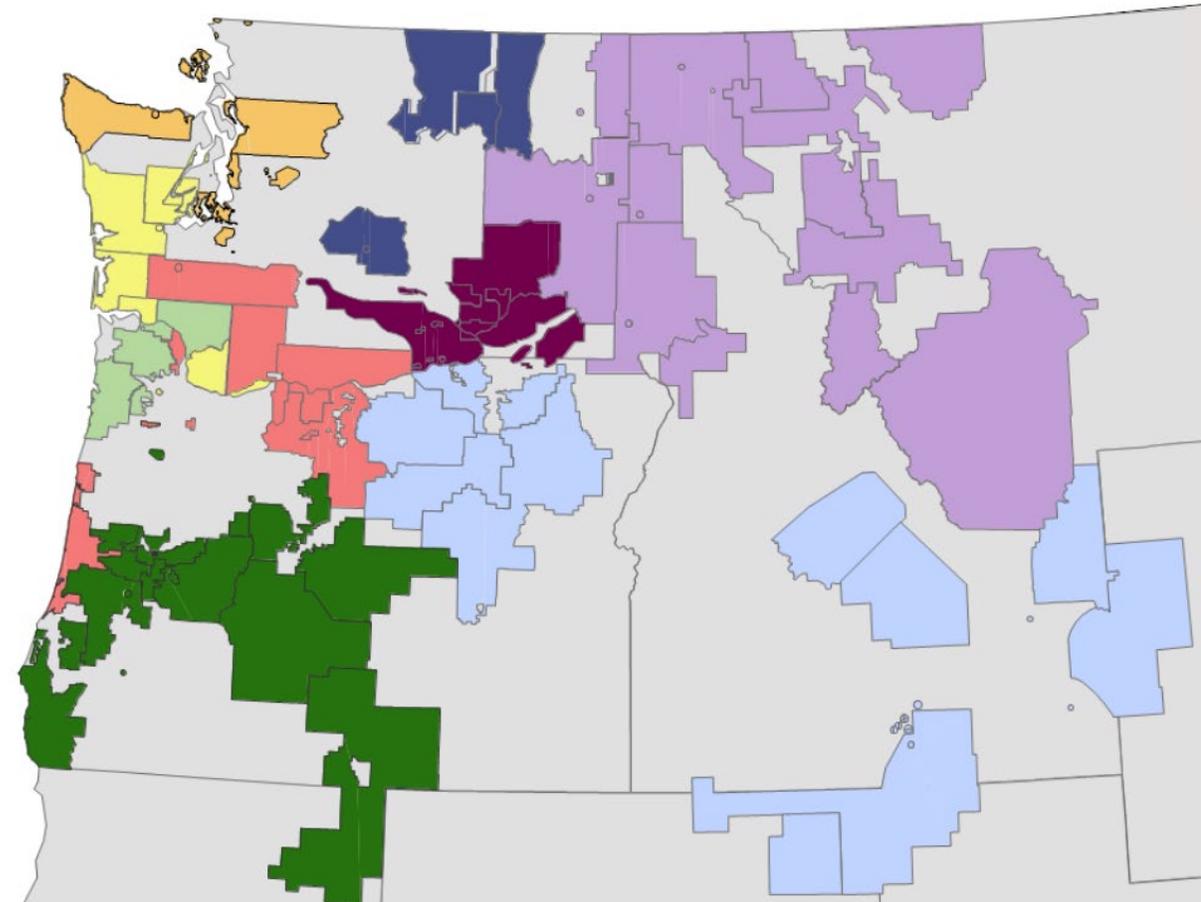
O: 458.215.0800 | C: 541.600.0959
jeff.bernacki@energysmartindustrial.com

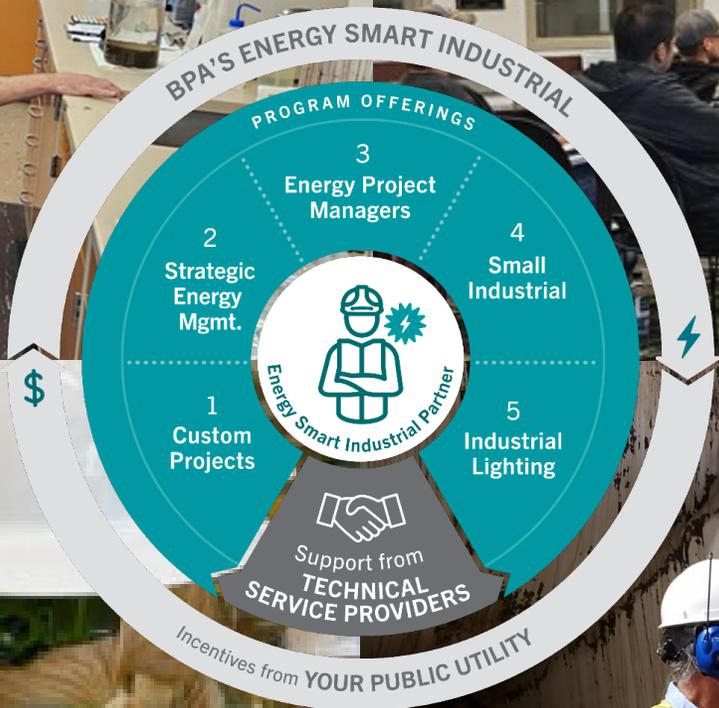


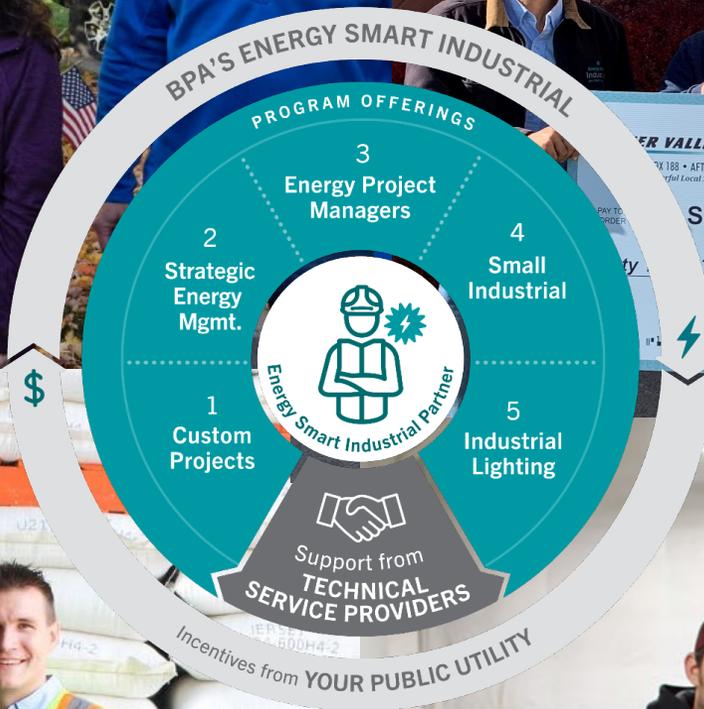
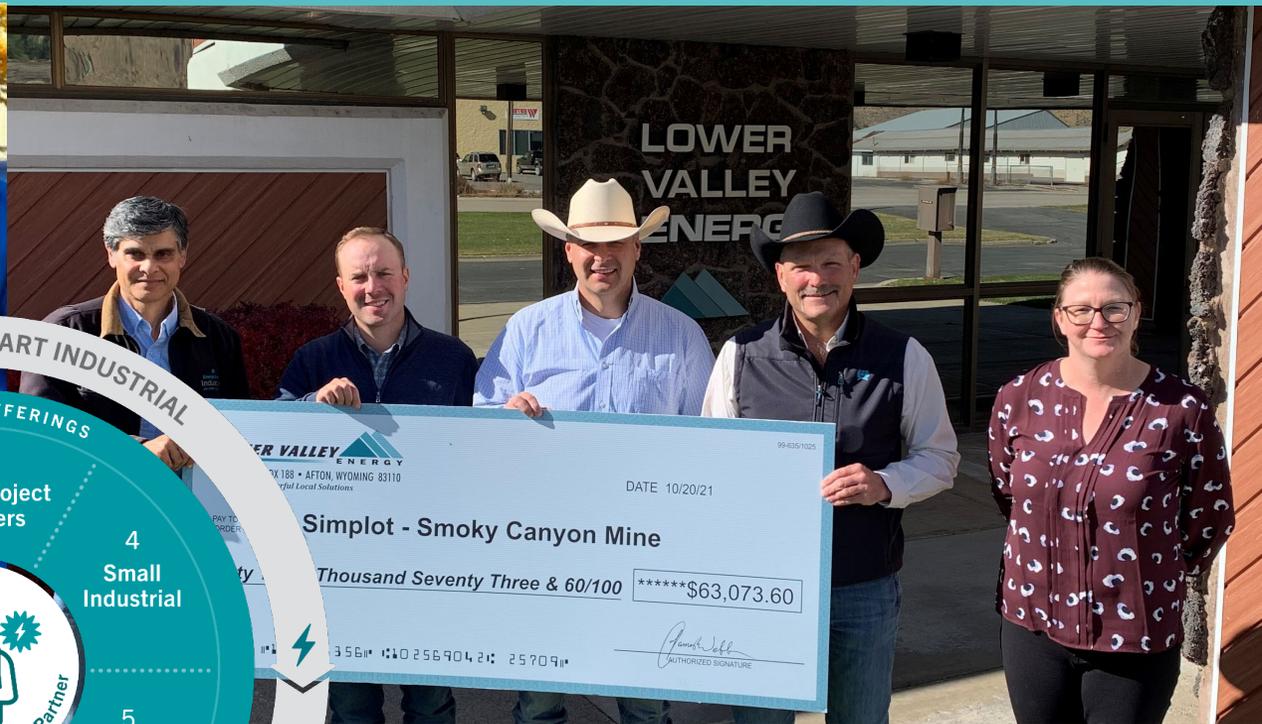
Jimmy Sauter

East-Central / NE Washington,
N Idaho, & W Montana

O: 971.202.1628 | C: 541.908.5090
jimmy.sauter@energysmartindustrial.com







LOWER VALLEY ENERGY
 188 • AFTON, WYOMING 83110
 Local Solutions

DATE 10/20/21

Simplot - Smoky Canyon Mine

Thousand Seventy Three & 60/100 *****\$63,073.60

35611 02569042 257091

Authorized Signature

1937

DATE Sept 5, 2024

PAY TO THE ORDER OF: Columbia River Seed \$ 159,584.00

fifty-nine thousand five hundred eighty-four ⁰⁰/₁₀₀ DOLLARS

MEMO: Energy Efficiency

Benton REA

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



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 search for, identify, evaluate, and implement low and no-cost energy saving opportunities at your facility.

TECHNICAL EXPERTISE: Through regular check-ins and individualized engineering support your energy team's knowledge will grow while they gain experience implementing SEM.

ON-DEMAND TRAINING: Self-paced learning modules feature core SEM topics such as how to form an energy team, how to find energy saving opportunities, or how to 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, which gives you a chance to identify opportunities, implement projects, and demonstrate improvements over time.

Where do the energy savings come from?

Energy savings primarily come from O&M projects like shutting off idling equipment, scheduling equipment more efficiently, eliminating compressed air leaks, lowering flowrates and operating pressures, and improved 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 electrical utility representative.



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.

EIS 2020-05-05

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

- Airflow management systems
- Data center infrastructure management (DCIM) implementation
- Real-time monitoring solutions

IT Equipment

- Server consolidation
- Storage optimization

Power Infrastructure

- Advanced power distribution
- High-efficiency engine heaters
- High-efficiency uninterruptible power supply (UPS) systems
- Smart power distribution units (PDUs)
- Transformer upgrades



“ 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

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.

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 is sponsored by Bonneville Power Administration and its Northwest Utilities.

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

Lamb Weston®

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.

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

framato™

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.

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

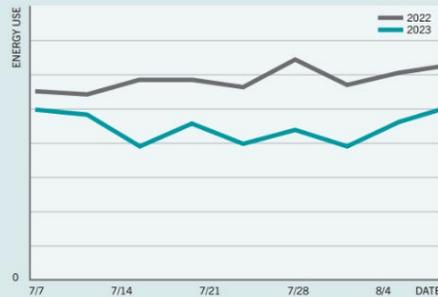


A SMARTER WAY TO KEEP IT COOL

Custom refrigeration projects bring more savings than expected

FruitSmart™

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.

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 giant 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
Chad Smith, Benton REA, 509.781.6727
Austin Rogers, ESI Partner, 458.212.3740



Custom Project Lead Time

Average time between CPP and CR approval
360 days

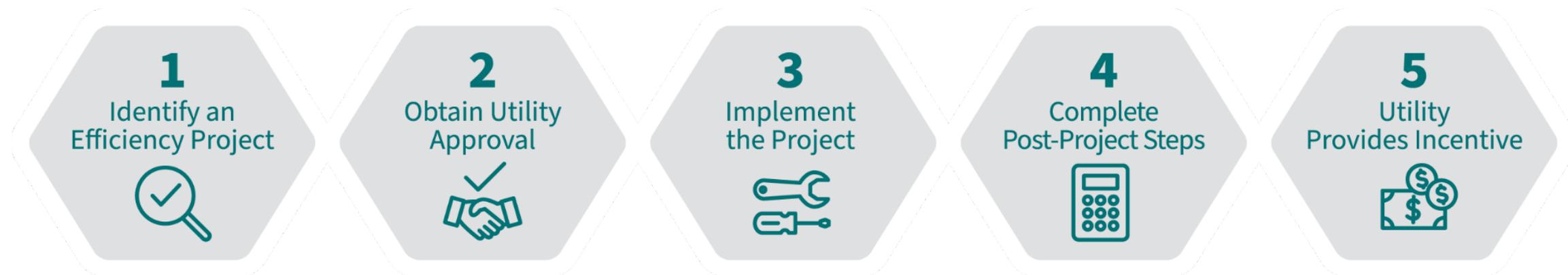


Includes data collection,
analysis, and Completion Report



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 – 2.3 kWh

NonStop LOCAL NEWS WEATHER TRAFFIC SWX SPORTS KNDO PROS KNDU PROS 69°

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

Pasco celebrates opening of innovative wastewater facility

Steven Hogencamp 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
69° Sunny 72° / 53°

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

7-Day Radar Alerts

Most Popular

- 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

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!



Top 10 energy waste reduction opportunities for food processors



Capital Projects

- Efficient condensers
- Refrigeration controls upgrades
- Fan VFDs (condenser and evaporator)
- Compressed air system upgrades
- Wastewater system upgrades

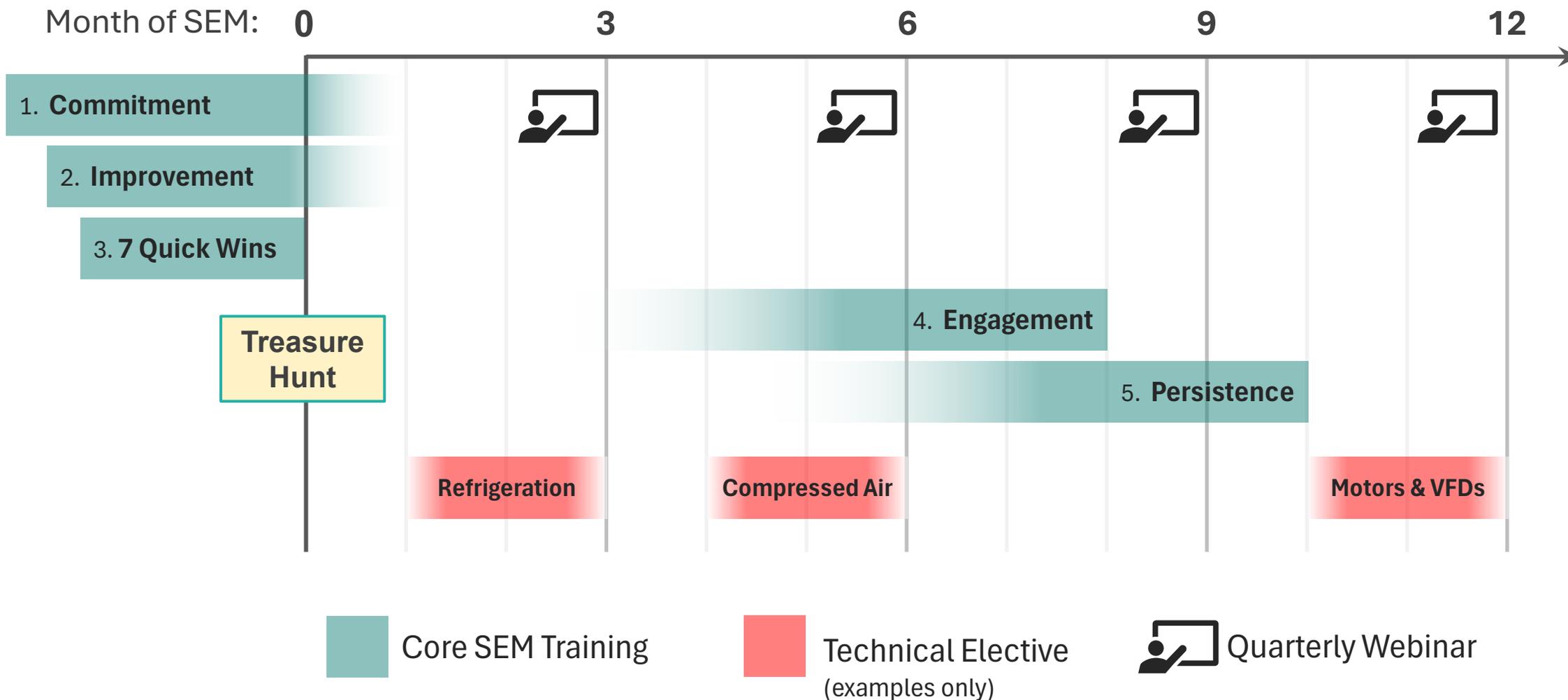


Low-Cost / No-Cost Opportunities

- Optimize suction pressure
- Lower minimum condensing pressure
- Compressor sequencing
- Optimize evaporator fan controls
- Reduce infiltration

SEM Self-Paced Learning

First-Year Curriculum and Example Timeline





**For additional support always contact your
EER first!**

Questions?



Closing Remarks

Thank you, Surveys & Safe Travels!

Adjourn!

