

Utility Focus Group Meeting May 21, 2024

FACILITATOR:

Eric Mullendore

Commercial & Industrial Sector Lead **Energy Efficiency** Bonneville Power Administration

Attendees



Name:

Amanda Wagnon Bill Hough Brandy Neff Cesar Garcia Chad Smith Charlie DeSalvo Dan Kinnaman

David Harris

Graham Goodman Jackie Caldera

Jennifer Langdon Katie Timmerman

Kelly Haugh Maurilio Lopez Megan Johannes

Megan Walters Melinda Evans

Rainee Habersetzer

Robert Frost
Ryan Perry
Mesfin Taye
Terry Mapes
Travis Hardy
Zeecha Van Hoose

Company:

Springfield Utility Board Eugene Water & Electric Board

PNGC Power

Northern Wasco PUD
Benton Rural Flectric Assn.

Columbia Rural Electric Assn.

Grays Harbor PUD

Springfield Utility Board

Seattle City Light

Umatilla Electric Coop.

Benton PUD

Big Bend Electric Coop.

Franklin PUD

Grays Harbor PUD
Central Lincoln PUD

Northern Wasco PUD

Lewis PUD Benton PUD Tillamook PUD Tacoma Power Benton PUD

Northern Wasco PUD Clark Public Utilities

Name:

Ben Graves
Brice Lang
Eric Mullendore
Henry Griffith
Jennifer Wood
Mike Palmer
Ray Hardiman
Shelley Layton
Steve Martin
Todd Amundson
Tony Simon

Company:

BPA, Program Manager
BPA, Energy Efficiency Rep.
BPA, C&I Sector Lead
Cascade Energy, ESIP
BPA, Industrial Program Manager
BPA, Contract Officer's Technical Rep.
Cascade Energy, ESIP
Cascade Energy, ESI Program Specialist
Cascade Energy, ESI Operations Manager
BPA, Industrial Engineer Technical Lead
Cascade Energy, ESIP Lead

Agenda



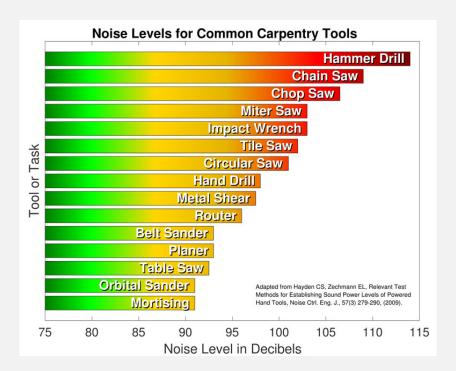
Welcome and Overview Safety Update	Eric Mullendore	11:00 – 11:05
2. ESI & BPA Updates		
ESI Program Updates BPA Updates UES Measure for Pump VFDs	Steve Martin Jennifer Wood Tony Simon	11:05– 11:45
3. UFG Open Forum	Tony Simon	11:45– 11:55
4. Wrap-up and Reminders	Jennifer Wood	Remaining Time

Safety Moment – Hearing Protection



Industrial Hearing Protection is Important!

- Prolonged exposure above 85 decibels (dB) can cause permanent hearing damage
- Most industrial sites are required by OSHA to implement hearing conservation programs.
- Hearing protection devices (HDPs) such as earplugs and earmuffs should be worn when on site.



Safety Moment – Hearing Protection



Factors considered when selecting hearing protection devices include:

- Noise hazards
- Noise frequencies
- Fit and comfort
- Noise reduction
- Rating









Safety Moment – Hearing Protection



When to wear hearing protection:

- The end user's safety program requires it, or warning signs are posted
- When performing or assisting with electrical work
- Anytime working near intense noise



Key Objectives for FY 2024





Achieve BPA and utility savings goals



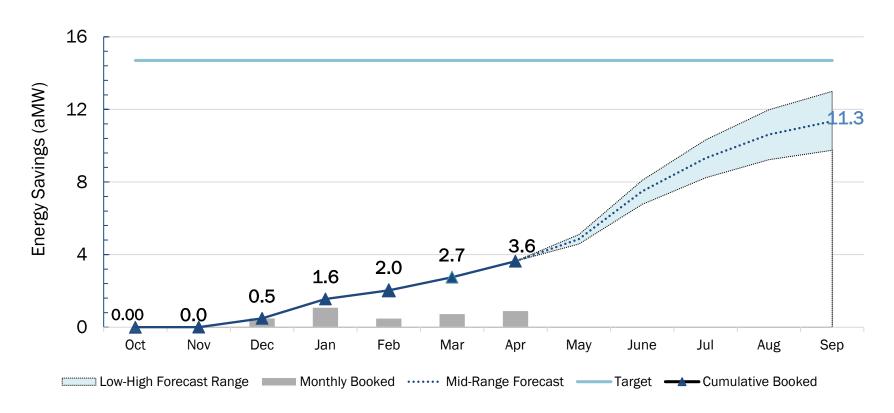
Engage EPMs supporting SEM sites



Innovate and prepare for future technologies

FY 2024 Savings Forecast





Custom Projects Approaching the Finish Line





Purchase Order
Issued
1.2 aMW
(26 projects)



Installed
1.6 aMW
(15 projects)



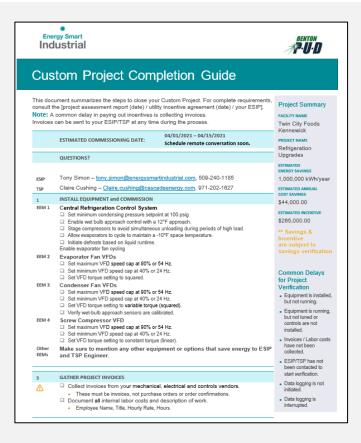
Post Installation M&V
3.5 aMW
(54 projects)

FINISH LINE

Custom
Project
Approved!!



Custom Project Completion Guide

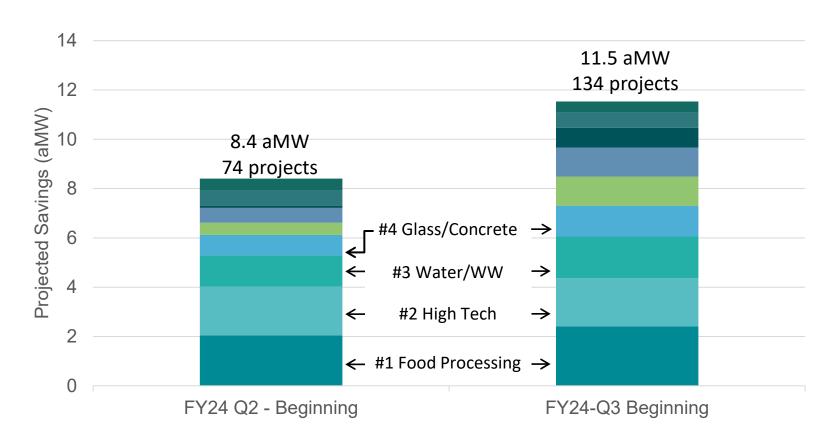


A communication tool to promote clarity on:

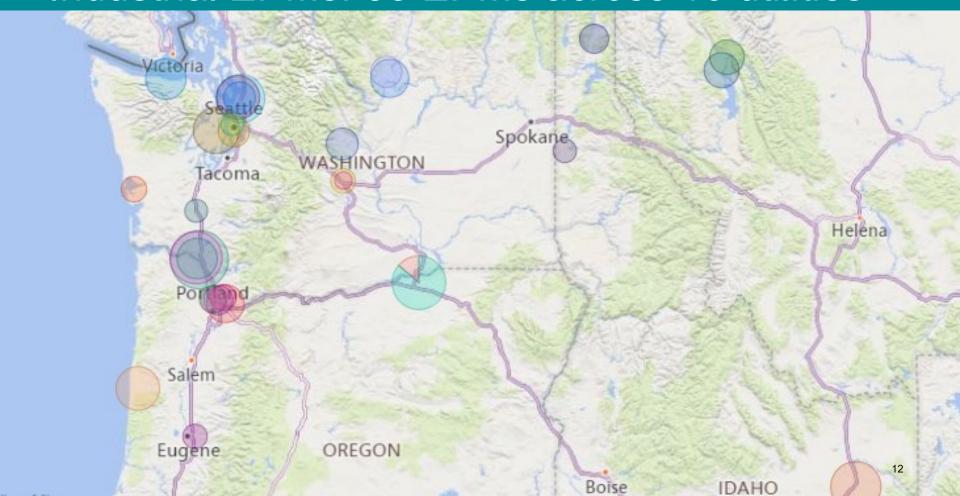
- Critical set points
- Collection of cost records
- M&V data collection

Energy Smart Industrial

FY 25-26 Custom Project Pipeline Growth



Industrial EPMs: 33 EPMs across 16 utilities

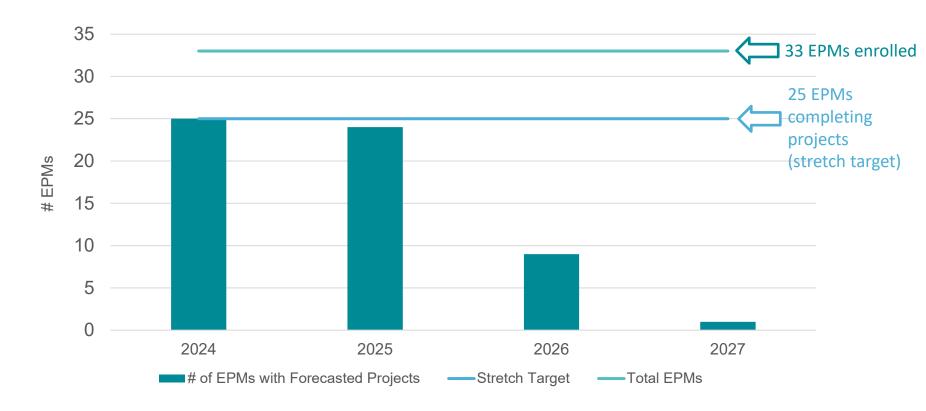




Energy Project Manager Engagement: Spring Lunch & Learn – May 30, 2024

Key Objective - Helping EPMs Close Projects

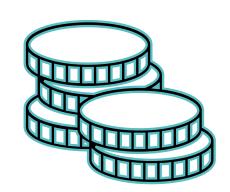




EPM Payments



- Payments are up to \$0.025/kWh of verified savings, up to the lesser of \$150,000 per biennium or a utilityspecified cap.
- EPM payments are processed <u>after</u> projects are completed and approved.
- Utilities determine the schedule for releasing EPM payments.







Completed Project Information

Verified savings and approval date

Project updates

- Updates to existing projects (e.g., dates, savings)
- Addition of new projects

Step 2: Processing EPM Payment in BEETS





Reminder: Your ESIP is available to help set up your EPM payment!

Industrial Lighting Support



 In late April BPA announced an interruption in support services relating to the Trade Ally Network NW program; beginning June 1, BPA will provide commercial lighting project support internally.



- Energy Smart Industrial team will continue to support regional industrial lighting projects.
- BPA saw an increase to Industrial lighting projects with Network Lighting Controls during the FY2022/2023 rate period.

UES Payment Clarification



 Fan VFDs in Potato and Onion Storage Facilities - discrepancy between the payment language in the Implementation Manual (IM) and the UES Measure List. The industrial team is working to correct the IM language.

Payment

To calculate the payment, the customer will add the total fan VFD horsepower installed on a per-building basis.

MEASURE CATEGORY	PAYMENT PER HORSEPOWER
Variable Frequency Drive for Fans in Potato and Onion Storage Facilities	\$200

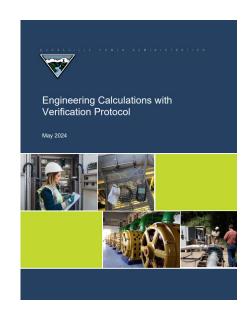
 Select the correct UES RefNo (based on VFD horsepower), then enter the number of units in the UES Measure Upload Template and BEETS – (payment aligns with \$200 per horsepower).

UES RefNo	Measure Name	Payment (\$/unit)
IMDMC30056	Motors/Drives Control Improvements (VFD) Potato/Onion Shed Horsepower 10	\$2,000.00
IMDMC30059	Motors/Drives Control Improvements (VFD) Potato/Onion Shed Horsepower 25	\$5,000.00

M&V Protocol Updates



- The review and comment period for updates to BPA's Measurement
 & Verification Protocol Documents* ends tomorrow.
 - One update Engineering Calculations with Verification (ECwV) Protocol – we foresee more projects should use this protocol – as evaluation findings show the savings to be reliable.



^{*}See Measurement and Verification - Bonneville Power Administration (bpa.gov)

Latest Marketing Collateral





- New marketing piece, *The Value of a Performance Tracking System*, applies to both Commercial and Industrial Strategic Energy Management. It provides answers...
 - What is an ideal PTS?
 - How do utilities report PTS?
- Ask your ESIP for a copy.

Pump VFD Upgrade Measure



Adding a VFD to your Pump

\$180 per hp



A Variable Frequency Drive (VFD) lowers pump speed to match the flow demand of the system. As the pump slows, the motor draws less power, resulting in energy savings. Adding a VFD on a pump can earn an incentive of up to \$180 per horsepower (815 kWh/hp)

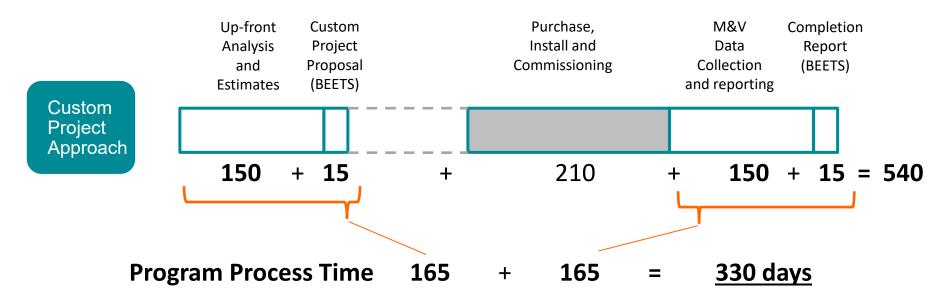
- For new construction projects, there are no state or local energy codes that mandate a VFD. Does not apply to retrofits.
- Any existing throttling or bypass mechanism have been removed or disabled.

To initiate a project, contact your utility or ESIP about either of these prescriptive incentive offers.

^{*}Subject to utility limits or caps.



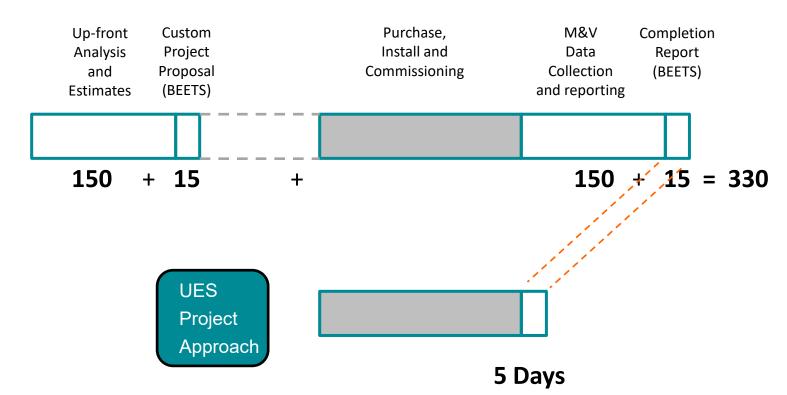
Pump VFD Upgrades – Benefit of UES Approach vs Custom

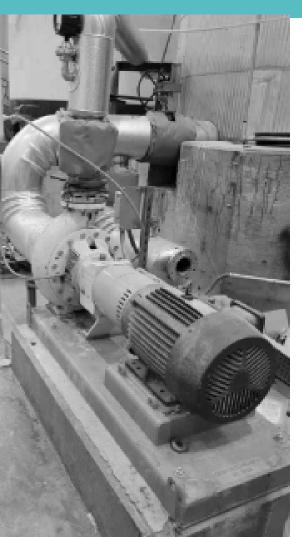


Pump VFD Upgrades – Benefit of UES Approach vs Custom



Custom Project Approach





First UES Pump VFD Project in Program





- Fruit Juice Concentrate Processor
- Pump Size = 25-hp
- Retrofit on existing juice transfer pump.
- Pump Incentive
 - 25-hp x \$180/hp = \$4,500
 - 25-hp x 815 kWh/hp = 20,375 kWh

Less processing time and faster payment to end-user!



Utility Focus Group Open Forum

Discussion with Utility Focus Group Members

- Feedback
- Other topics

Wrap-up and Reminders



- BPA M&V Protocols will be posted May 24, 2024
- Non-residential Lighting Impact Evaluation Webinar in June
- Q3 UFG Call: Tuesday, August 13, 11:00-12:00 PDT
- Utility Staff Changes, please notify Jennifer Wood



Thank you!

For more information, contact:

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Jennifer Wood

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