



Energy Smart Industrial

Utility Focus Group Meeting

November 2021

Facilitator:

Eric Mullendore
Commercial and Industrial Sector Lead
Energy Efficiency
Bonneville Power Administration

Attendees:

Name:

Alan Fraser
Alex Ruiz
Amy Walton
Ashley Stahl
Bill Hough
Brandy Neff
Charlie DeSalvo
Chris Johnson
Dave Wimpy
David Harris
Dawn Senger
Eric Miller
Jacob Henry
Jen Langdon
Kelly Haugh
Kelsey Lewis
Kevin Fischer
Kim Johnson
Lori Froehlich
Matt Walker

Company:

Tacoma Power
Umatilla Electric
Lower Valley Energy
City of Centralia
Benton PUD
PNGC Power
Columbia REA
Benton PUD
Tillamook PUD
Springfield Utility Board
City of Richland
Benton REA
Lewis PUD
Cowlitz PUD
Big Bend Electric
Snohomish PUD
Benton PUD
Okanogan PUD
Clark Public Utilities
Tacoma Power

Name:

Pat Didion
Richard Cole
Robert Frost
Terry Mapes
Tim Lammers
Zeecha Van Hoose
Bob Brennand
Brice Lang
Doug Heredos
Eric Mullendore
Jacob Schroeder
Jennifer Wood
Kyle Barton
Margaret Lewis
Mark Ralston
Nathan Kelly
Nosh Makujina
Shelley Layton
Steve Martin
Todd Amundson
Tony Simon

Company:

City of Milton-Freewater
Grant PUD
Benton PUD
Benton PUD
Columbia River PUD
Clark Public Utilities
Cascade Energy, ESIP
BPA COTR Liaison
Cascade Energy, ESI Small Industrial
BPA, C&I Sector Lead
Cascade Energy, ESI Energy Mgmt Mgr
BPA, Contracted Program Specialist
BPA, ESI Program Mgr
BPA, EE Programs Mgr
BPA, EER
BPA, Engineer
Cascade Energy, ESIP
Cascade Energy, ESI Program Specialist
Cascade Energy, ESI Operations Mgr
BPA, Engineer and Industrial Tech Lead
Cascade Energy, ESIP/ESIP Mgr

Agenda

<p>BPA EE and ESI program updates</p> <ul style="list-style-type: none">• BPA and ESI team updates• FY 2022 Pipeline and Savings Forecast• New SEM Cohort and other highlights	<p>Eric Mullendore Steve Martin Jacob Schroeder</p>	<p>2:30 – 3:00</p>
<p>Utility updates and project spotlight</p> <ul style="list-style-type: none">• Benton PUD• Lower Valley Energy	<p>Chris Johnson Amy Walton</p>	<p>3:00-3:15</p>
<p>UFG Open Forum</p>	<p>All</p>	<p>Remaining time</p>

BPA ESI Core Team



Eric Mullendore
C&I Sector Lead



Kyle Barton, *New!*
Program Manager



Jennifer Wood
Program
Support



Todd Amundson
Engineer, Tech
Lead



Nathan Kelly
Engineer

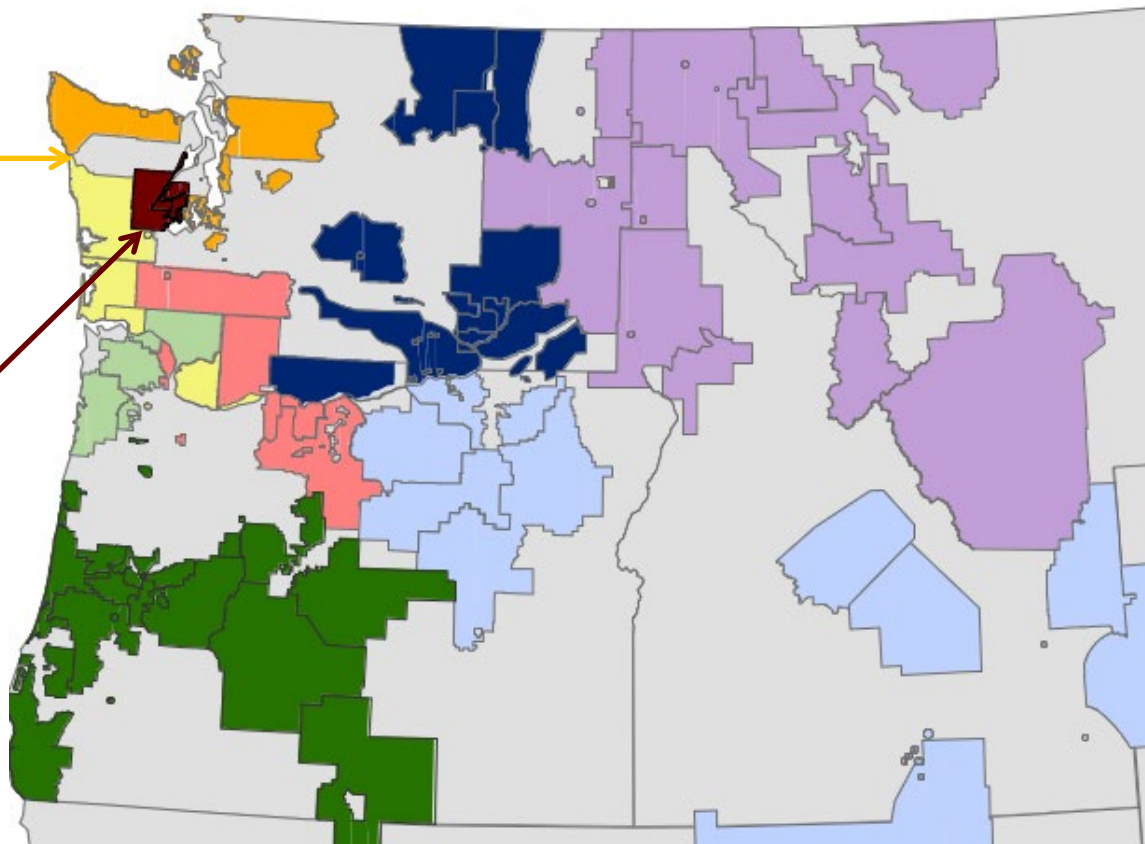
Transitions on ESI team



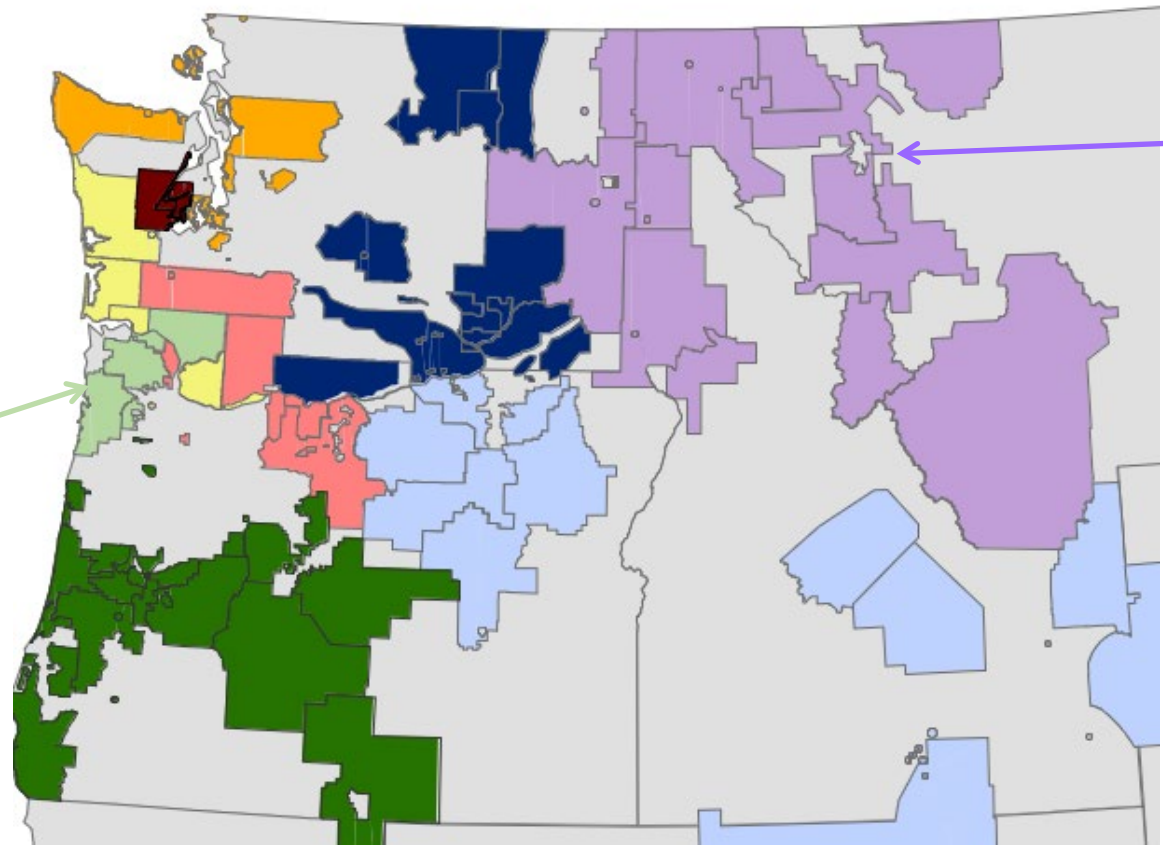
Max Reichlin serving most
Puget Sound utilities



Bob Brennand retires
January 14, 2022



Transitions on ESI team



Jimmy Sauter will relocate to serve the Troy's territory



Troy Savage will retire in April 2022

Strategic Energy Management Team



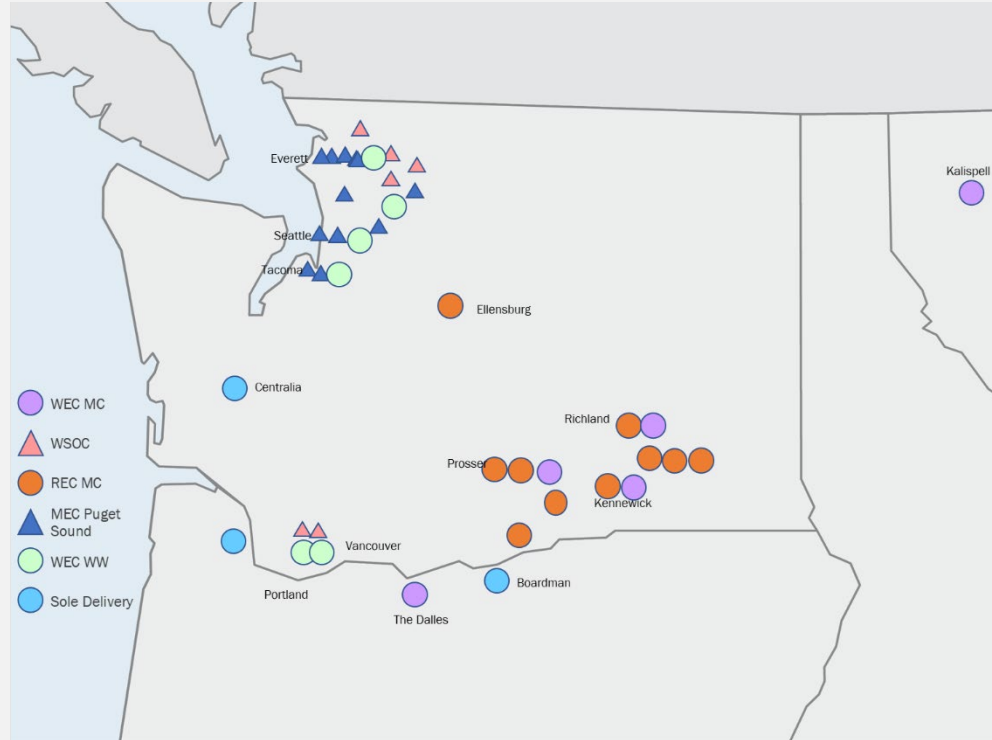
Jacob Schroeder
EM Manager



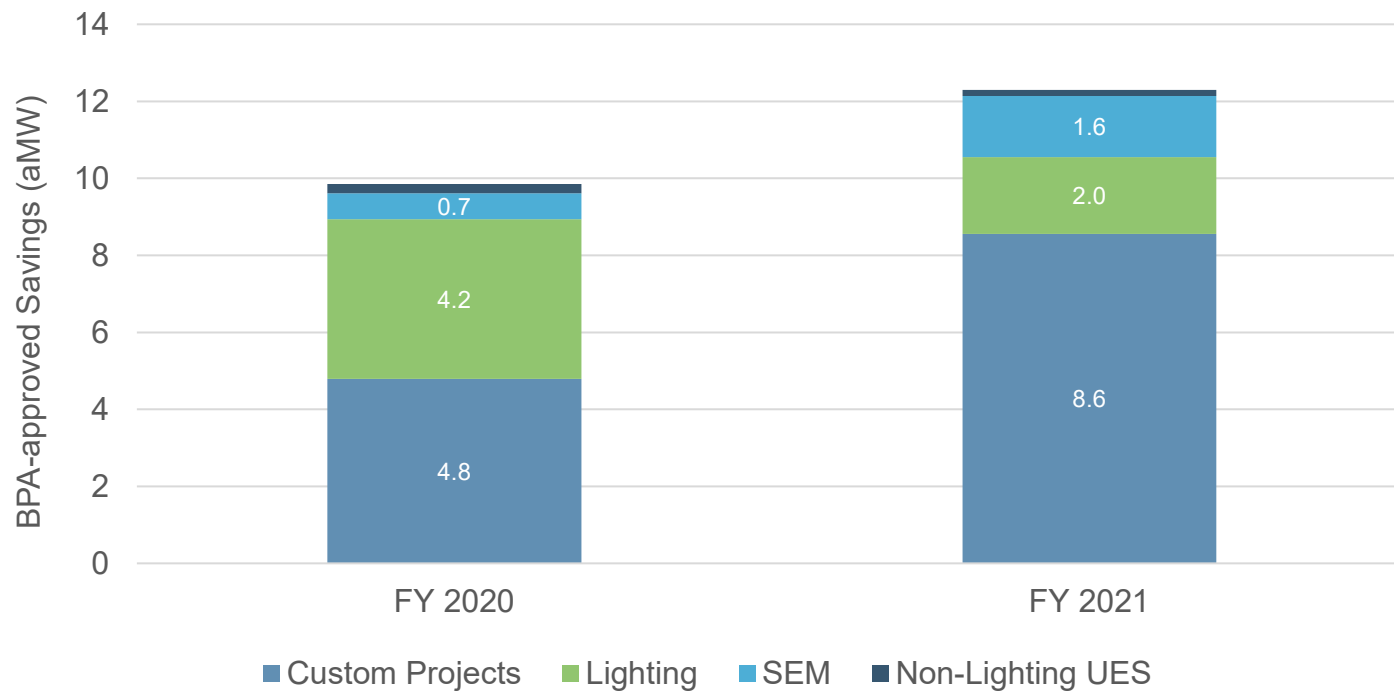
James Roe
EPT Engineer



Hanna Miller
SEM Specialist

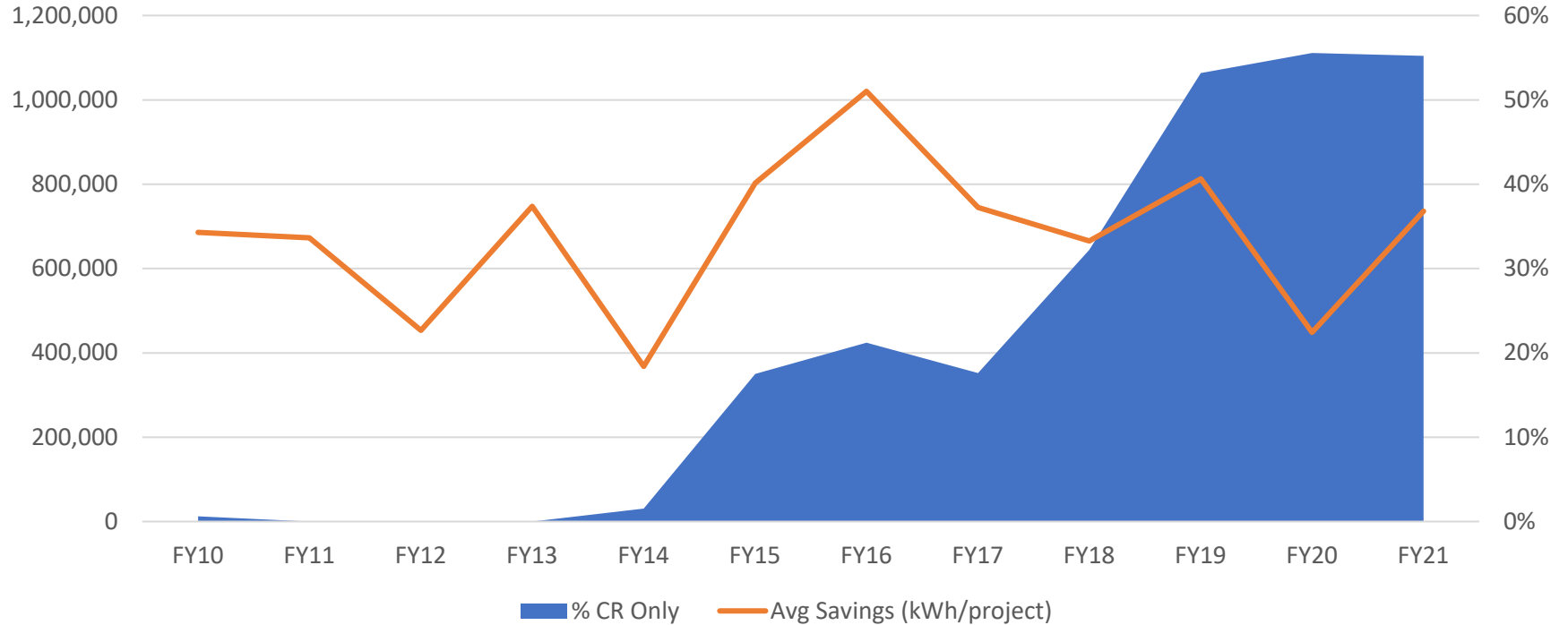


A strong rebound in FY 2021

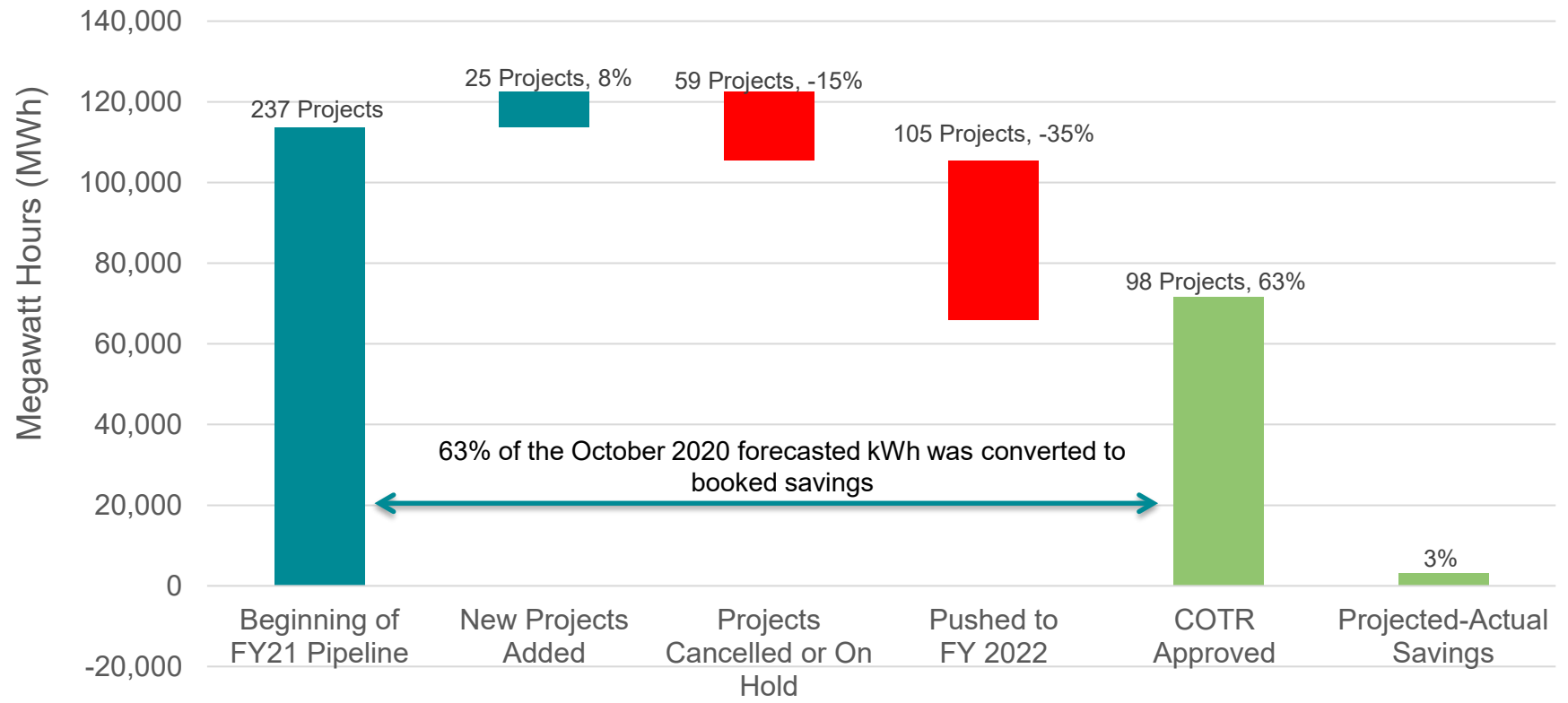


*FY2020 and FY2021 remain unofficial estimates

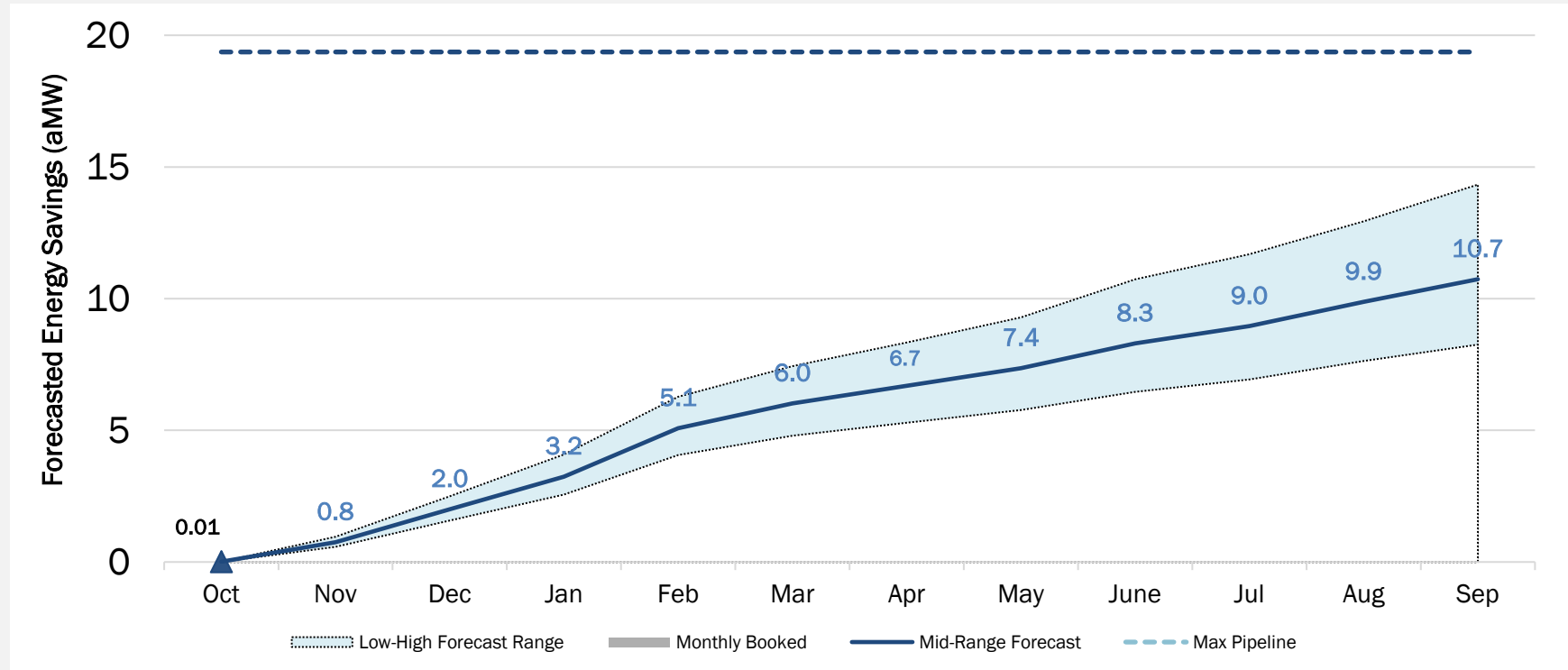
Option 1 Custom Project – Average Size and % CR Only



Option 1 Custom Project – FY21 Pipeline Conversion



FY 2022 Savings Forecast





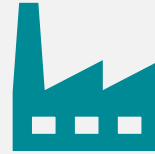
Program Delivery Priorities

- Achieve sector targets and support **individual utility** goals
- Promote **durable, reliable** energy savings
- Implement new **EPM and SEM** program offerings

SEM – Recruiting for FY2022



Clean Water Cohort
Sept. 2021



Blended Industrial
April 2022



Sole Delivery
Continuous

Customer interested in SEM now? Let your ESIP know.

Blended Industrial SEM Delivery

NOV



Recruiting
begins

Recruiting
webinar



JAN

FEB



Enrollment
'deadline'

Engagement
planning begins



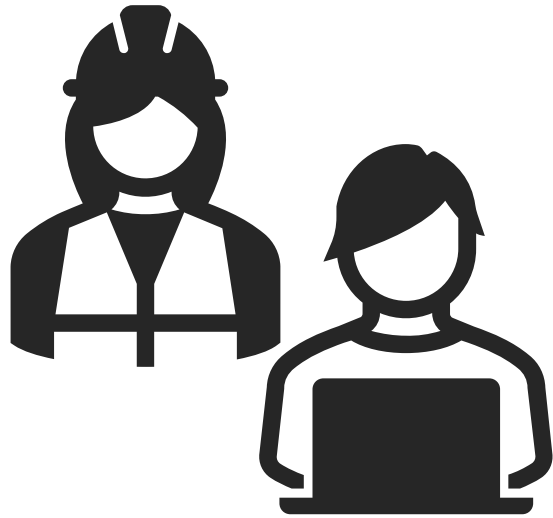
MAR

APR



Cohort
launch

Blended Industrial SEM Delivery



Hybrid Remote/On-site Delivery



Recruiting Across the Region

What are the characteristics of a good SEM candidate?



Strong Potential

Site has good O&M opportunities that the staff are willing to pursue.



Stable System

Operations are stable enough to enable long-term M&V of O&M activities.



Empowered Team

Engaged leadership supports the energy team's pursuit of improved energy performance.



Implementation Manual Update Reminders

Notification of outstanding
IS2.0 submittals



Dec. 3

Jan. 31



Legacy project
submittals due

IS2.0 retirement
target date



Mar. 1

Apr. 1



Launch of new
IM and BEETS

Energy Efficiency
New Energy Management



BPA will expire the Energy Project Manager, or EPM, measure and release a new EPM measure that will be effective on April 1, 2022. The new EPM measure is applicable to the Industrial and Commercial sectors.

BPA will also retire the Strategic Energy Management, or SEM, measure and release a new SEM measure that will be effective on April 1, 2022. The new SEM measure removes a number of documentation requirements and the higher incentive rate previously available for projects with documented costs. The optional Performance Tracking System (PTS) will be separated out to become a new measure.

Check this page for updates about the upcoming EPM, SEM and PTS measures.

[https://www.bpa.gov/EE/Sectors/Industrial/Pages/
New-Energy-Management.aspx](https://www.bpa.gov/EE/Sectors/Industrial/Pages/New-Energy-Management.aspx)

Utility Spotlight – Benton PUD



Utility summer peak driven by:

- Residential and commercial air conditioning
- Cold storage and food processing industrial loads
- Agriculture sector irrigation loads

Chris Johnson – Benton PUD Manager of Conservation and Renewable Energy Programs

Tony Simon – Energy Smart Industrial Partner (ESIP)

Industrial Projects Updates

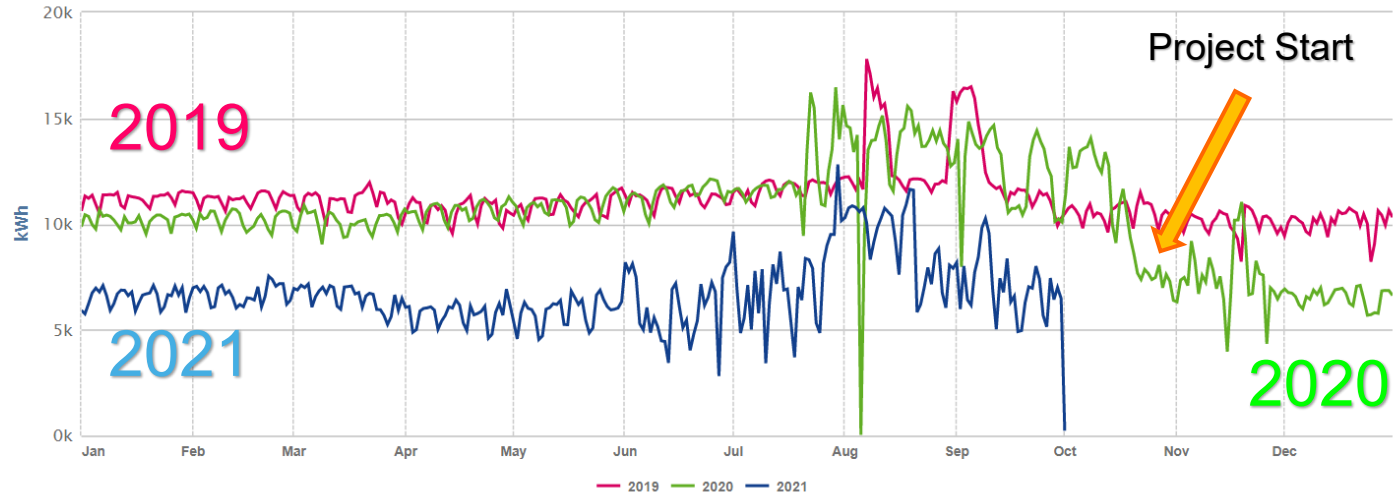


2,093,968
kWh/year
(busbar)

Energy

MARKERS

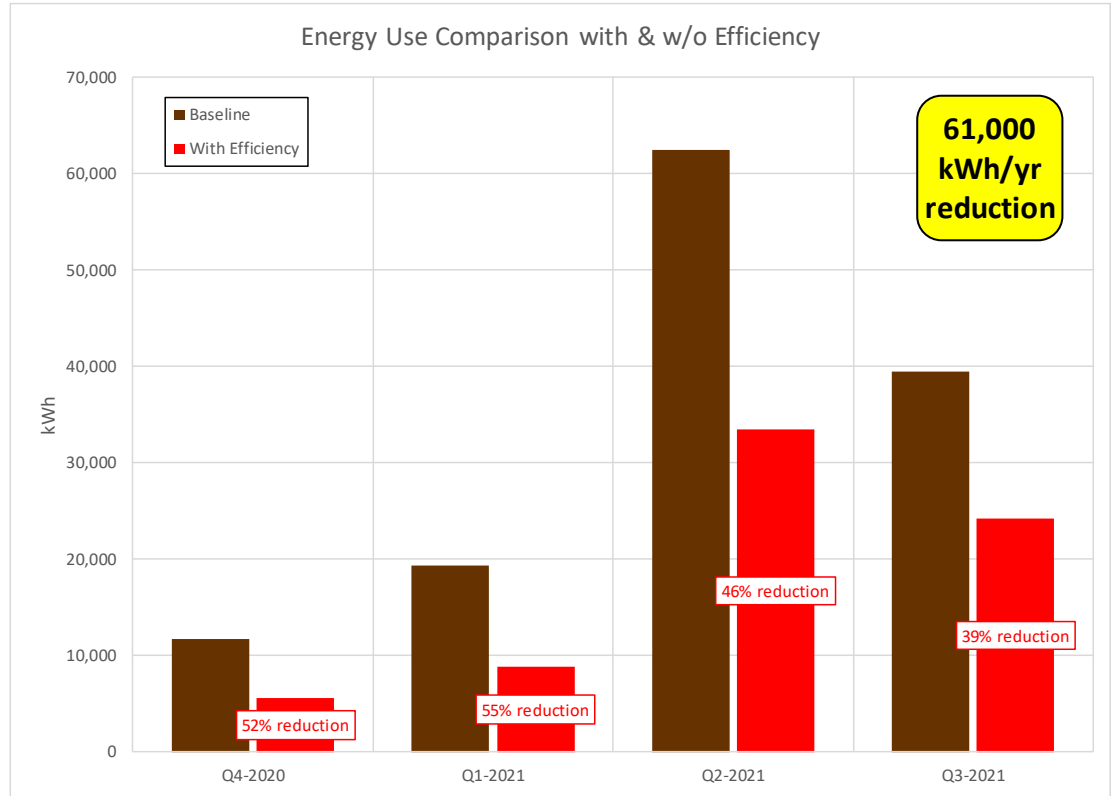
Series 1 Yearly Comparison



Industrial Projects Updates



VFD Upgrade on Mixer
(operational during summer months only)



Industrial Projects Updates



Forklift battery chargers could offer a potential for small, dispatchable (or scheduled) loads.

Utility Spotlight – Lower Valley Energy



Amy Walton - Lower Valley Energy – Conservation Specialist

Nosh Makujina – Energy Smart Industrial Partner

JR Simplot – Smokey Canyon Mine

- Located in the rugged Caribou National Forest, approximately 20 miles from Afton, WY
- Phosphate ore is milled into a fine powder, mixed into a slurry, and pumped 87 miles to Pocatello, ID
- First site to enroll in ESI's SEM pilot back in 2010. Implemented six custom projects with 6.9 million kWh total savings.

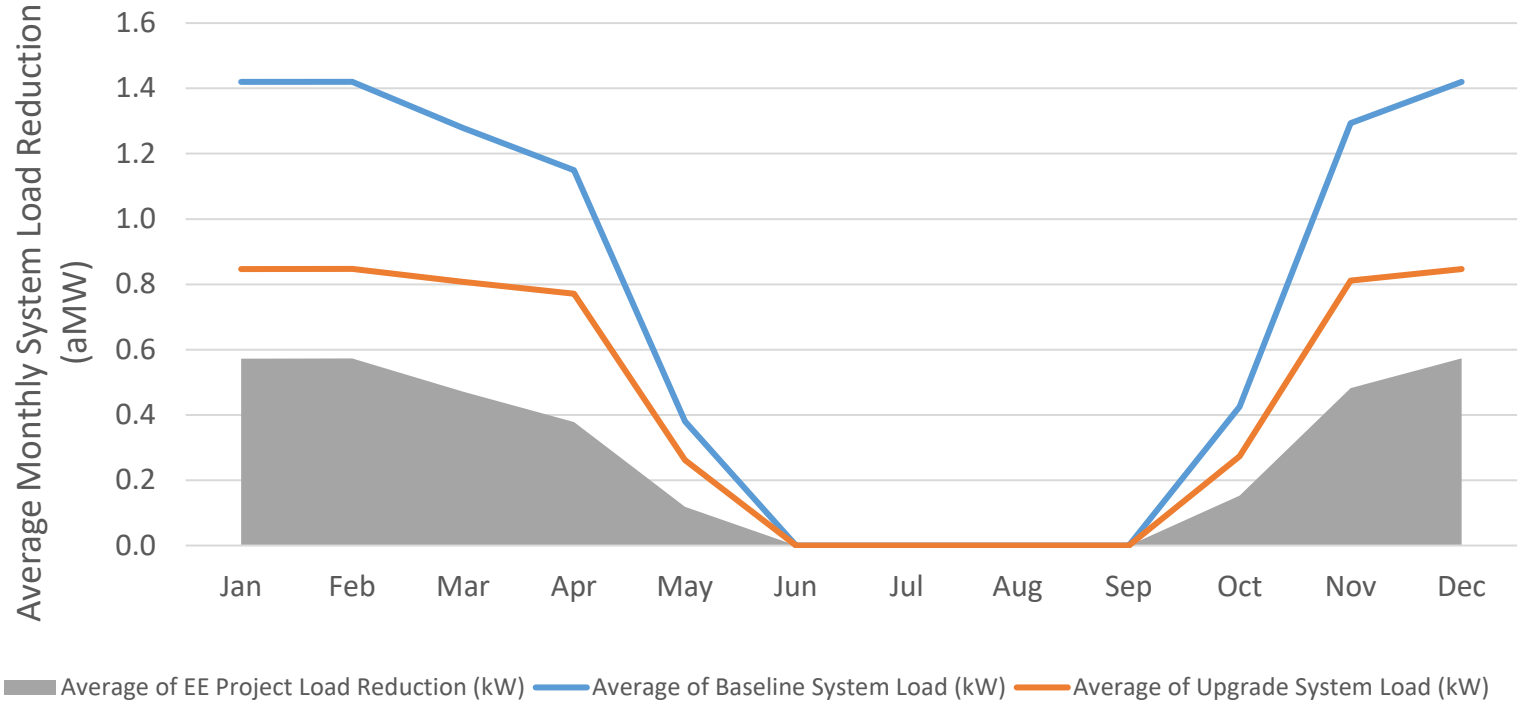


Mill & Shop Ventilation Controls Project

- Upgraded exhaust fan controls and addition of O₂, CO and NO_x sensors reduced mill exhaust and steam heater fan duty cycles
- Replaced all steam heater thermostats and placed them in lockable enclosures
- Simplot is already implementing measures for additional savings, (Phase 2 project)

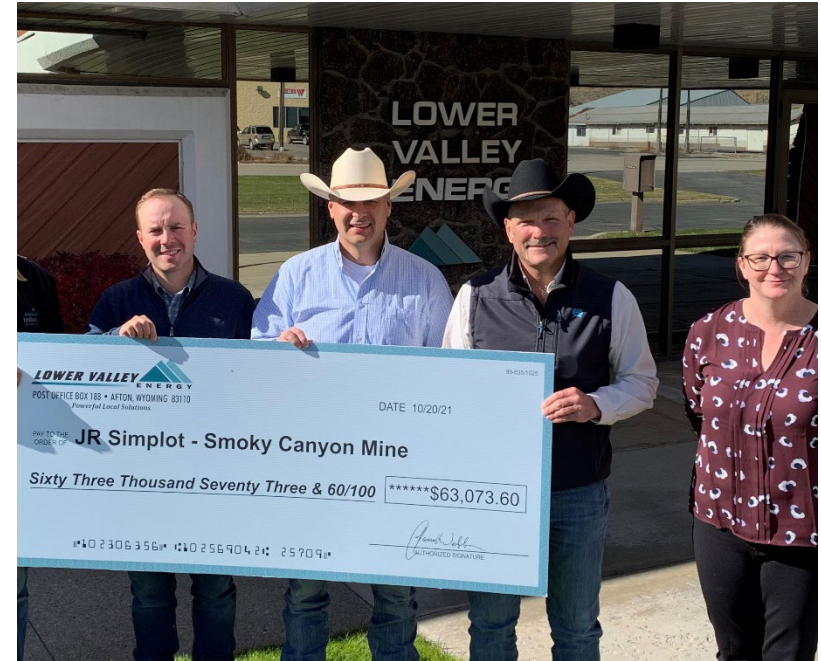


Time-varying characteristics of savings



Key Takeaways

- Flexibility in project upgrade concept.
- Patience in working with a large customer pays off. The concept of eliminating the Electric Boiler was first proposed in 2016
- Corporate support was essential. Simplot has had consistent corporate support for EE since 2010
- Simplot wanted to celebrate with a Big Check
- This project will help LVE address winter load growth



Utility Focus Group Open Forum

Discussion & feedback from Utility Focus Group

- Other project successes?
- What concerns and opportunities do you foresee as we begin a new rate period, and how can ESI help?

Wrap-up and Reminders

- Rate Period Implementation Manual feedback
- Next Utility Focus Group meeting
 - Please delete old series of Focus Group meeting invitations
 - A new Focus Group invitation series will be coming from Jennifer Wood this week

Thank you!

For more information, contact:

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Bonneville Power Administration

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503-230-5546