Energy Smart Industrial

Utility Focus Group Meeting

July 13, 2021

Facilitator:

Eric Mullendore Industrial Program Manager Energy Efficiency Bonneville Power Administration



Attendees:				Energy Smart Industrial
Name: Alan Fraser Alex Ruiz Amy Walton Ashley Stahl Bill Hough Dan Kinnaman David Harris Eli Volem Eric Miller Jacob Henry Jason Bird Julie Anderson Kelly Haugh Matt Walker Maurilio Lopez Natasha Houldson Tara Maynard Tim Lammers Wade Carey Zeecha Van Hoose	Company: Tacoma Power Umatilla Electric Lower Valley Energy City of Centralia Benton PUD Grays Harbor PUD Springfield Utility Board Eugene Water and Electric Board Benton REA Lewis PUD Idaho Falls Power Franklin PUD Big Bend Electric Tacoma Power Franklin PUD Tacoma Power Grays Harbor PUD Columbia River PUD Columbia River PUD Clark Public Utilities	Name: Brice Lang Eric Mullendore Jess Kincaid Mark Ralston Nathan Kelly Nosh Makujina Ray Hardiman Shelley Layton Steve Martin Todd Amundson	Company: BPA COTR Liaison BPA, CAI Sector Lead BPA, Acting EE Programs Mgr BPA, EER BPA, EER Cascade Energy, ESIP Cascade Energy, ESIP Cascade Energy, ESI Program Specialist Cascade Energy, ESI Operations Mgr BPA, Engineer and Industrial Tech Lead	
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S. Martin: Welcomed all in attendance and reviewed the agenda

Agenda		Energy Smar Industria
 BPA EE and ESI program updates ESIP field activity update Custom Project pipeline FY21 end-of-year forecast Evaluation updates 	Steve Martin Eric Mullendore Todd Amundson	11:00 - 11:30
 Utility updates and project spotlight Central Lincoln PUD – Energy Project Manager Lower Valley Energy – High Country Linen 	Wade Carey and Ray Hardiman Amy Walton and Nosh Makujina	11:30-11:45
UFG Open Forum	All	Remaining time

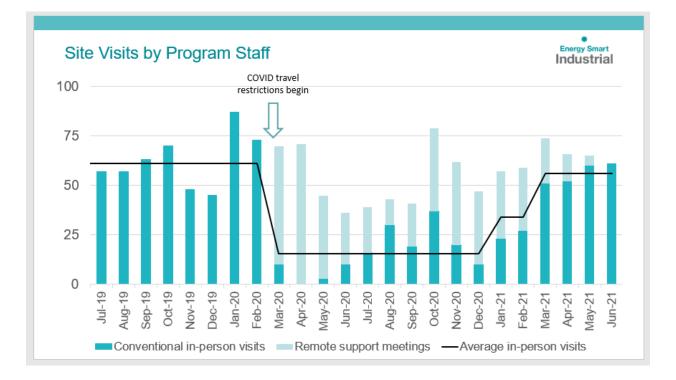
Steve M. cont'd: Reminded everyone that 16 months has passed since the ESI Program has stopped field work.

Thanks for supporting the ESI team as we've navigated this challenging time.

- We've learned a ton about communicating in new and creative ways, leveraging technology (e.g., remote data loggers, Realwear body cameras, etc.) to carry out studies.
- We've also realized that 'boots on the ground' is not going away.

The ESI team has carried out 61 site visits in June (matching the pre-COVID average).

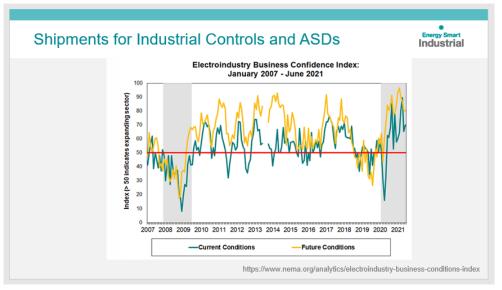
- All performed safely in compliance with local and state laws and regulations, as well as coordinating with you and site personnel to ensure our work is carried out with full knowledge and awareness of utility and in accordance to the ESI program COVID Response decision tree.
- This ramp-up comes at a pivotal time.



Steve M. cont'd: Here's what we've heard and seen in the field...



- National Electronics Manufacturer Association (NEMA) publishes market data that gives a
 pulse on the direction of capital spending.
- Electro-industry business index is a monthly survey of senior managers of NEMA member companies.
- It's not a 'perfect representation' of industrial EE projects; but it is a 'relative gauge' of business confidence for manufacturers and distributors of key components such as motor starters, programmable logic controllers, etc.



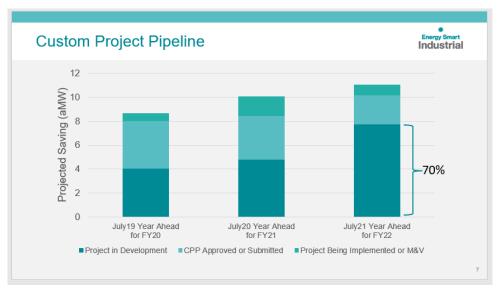
- The current conditions and future conditions indices are near record highs after a record low one year ago
- This is a good sign that industries have money to spend, and the idea that the low hanging fruit has been picked may be overstated a bit.

https://www.nema.org/analytics/industrial-control-business-indices

Steve M. cont'd: Here is a "Year Ahead Pipeline" view of the past three years (from the beginning of the month of July)

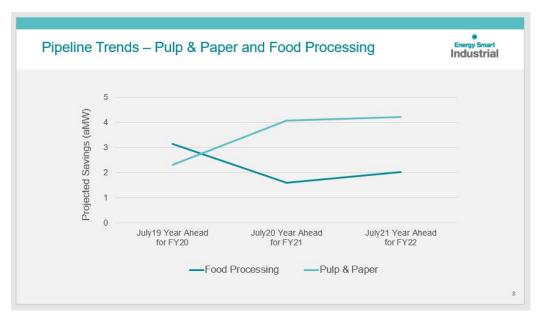
This is very encouraging that we've been able to increase the # of projects for the year-ahead

We are also seeing a higher percentage of the 'Projects in Development' category; this is an area of ESIP focus.



Steve M. cont'd: Two industry segments we watch very closely – food processing and pulp and paper.

Historically, these two have comprised approximately 50% of our savings – as a team we've developed deep expertise. We saw a significant shift last year that we expect to continue through the next biennium.

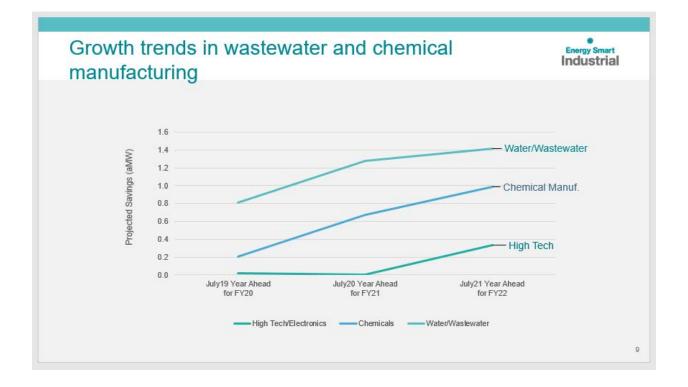


Steve M. cont'd: Some emerging segments – water/wastewater, chemical manufacturing and high tech.

What these three have in common are aging plant infrastructure and relatively healthy balance sheets

- High tech semiconductor to circuit boards experiencing the best business cycle since the late nineties
- Chemical manufacturing experiencing the benefit of higher commodity prices difficult environment for electrical EE but we seem to be making inroads.
- Water/Wastewater
 - Much of this is the natural outcome of SEM almost all the largest plants have been through WEC.
 - American Rescue Plan Act (ARPA) funding

Collectively, savings from these segments has trended up the past three years and now represents 30% of program savings (more than 2x three years ago).

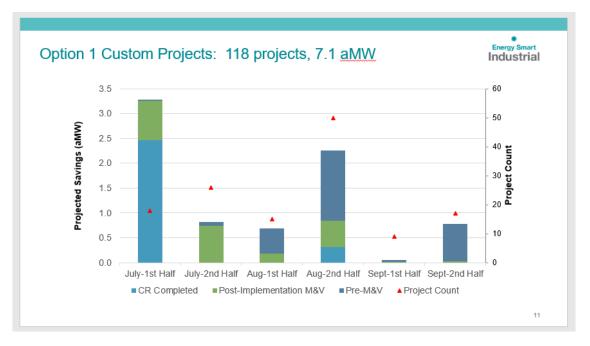


Steve M. cont'd: Obviously, the ESI program has targets we'd like to hit; and we're also very excited to help each of you achieve whatever goals you might have for this biennium's close-put. How can we do this?

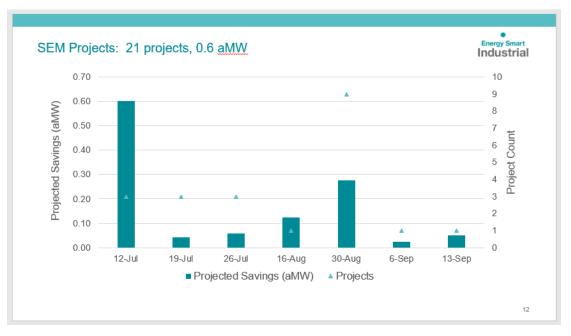
- By proactively engaging end-users in **managing** the Custom Project pipeline.
- Providing regular updates to utilities on project completion status and incentive forecasts.
- Minimizing the **end-of-biennium** project submittal rush.



Here is what the Option 1 Custom Project pipeline looks like (today) for the remainder of the year, based on estimated M&V dates:



Steve M. cont'd: And here is what the SEM Projects pipeline looks like (today) for the remainder of the year, based on estimated project completion dates.



There are 17 Custom Projects or roughly 0.8 aMW of energy savings that have not been invoiced/reported to BPA.



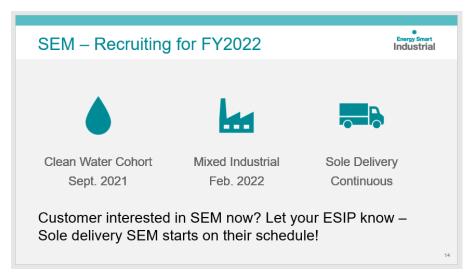
Steve M. cont'd: The ESI team would like to thank you and your customers that helped us launch two cohorts during COVID (Wastewater Energy coaching and refrigeration energy coaching in Mid-Columbia) and for all the support keeping existing cohort participants on track.

COVID delayed launch of a planned winter 2021 **clean water cohort** – we are now planning to launch workshop 1 in September.

We have five participants enrolled and are looking to recruit a few more.

We'll be applying our distance learnings to launch a (likely remote) cohort of mixed industrial customers in February next year.

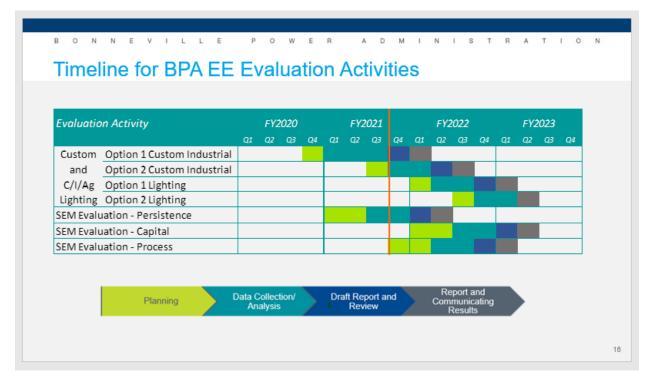
We encourage you to discuss potential participants with your ESIP.



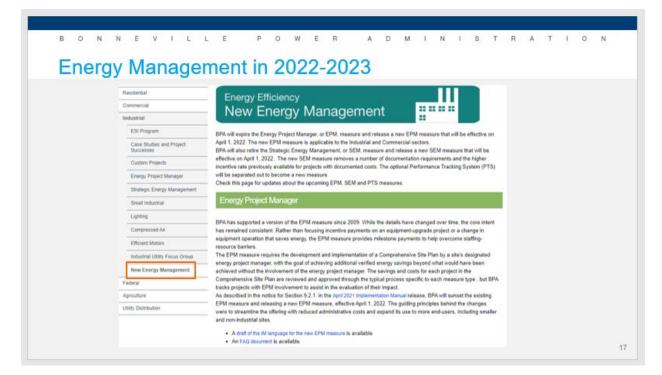
Here are some reminders of Custom Project Completion Report Submission Timelines

Next, Todd Amundson is going to share an update on BPA's Evaluation...

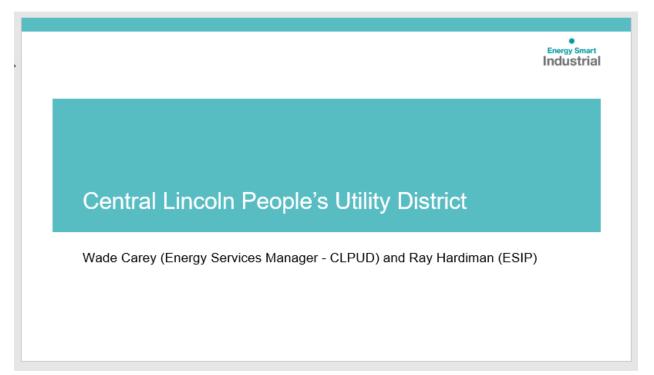
T. Amundson: Utilities will be receiving official word from your Energy Efficiency Representative



E. Mullendore: BPA created a new webpage that includes the draft Rate Period Implementation Manual language for the new Energy Project Manager, Strategic Energy Management and Performance Tracking System. A set of frequently asked questions is available for the EPM and SEM offerings.



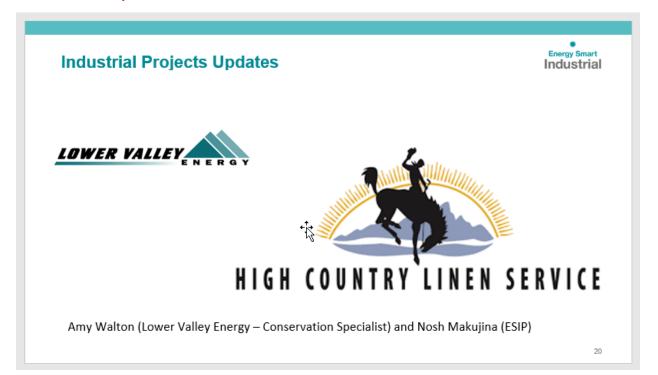
Eric M. cont'd: Now I would like to introduce Wade Carey from Central Lincoln PUD and his ESIP, Ray Hardiman...



Wade talked about the utility's perspective of the proposed next Rate Period's changes to Energy Project Manager offering and how they are preparing for the transition.



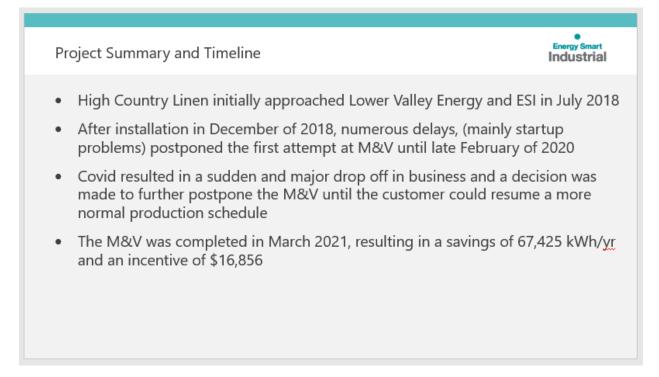
E. Mullendore: Now let's give our attention to Amy Walton from Lower Valley Energy and her ESIP, Nosh Makujina.



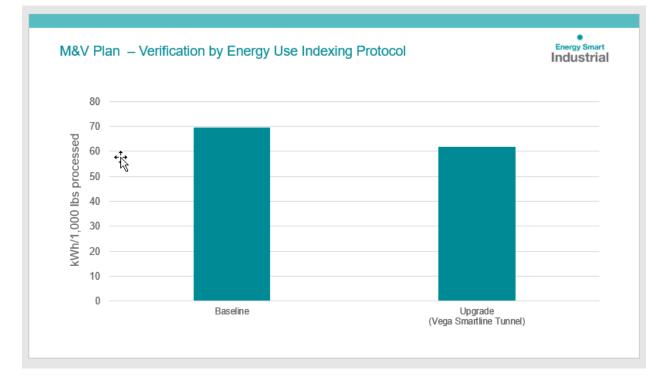
Amy W: Although High Country Linen is one of our small customers that has been around for quite some time. Nosh will share the specifics about the project...

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Nosh M. cont'd: Shared the project summary with savings and incentive.



There was an 11% improvement – plus the merits of this project's M&V strategy was it being costeffective and unintrusive to the facility and staff.



Key Takeaways

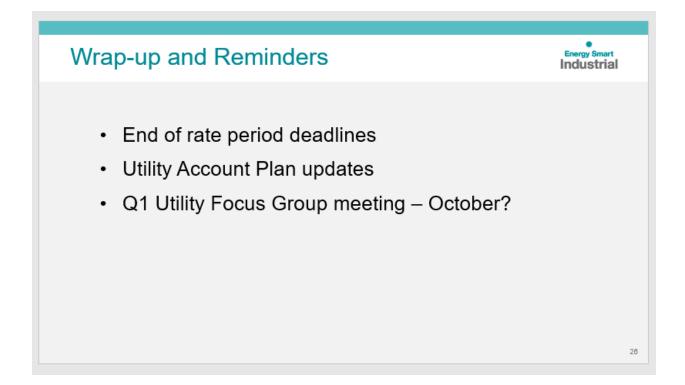


- Regular communication through commissioning challenges and business downturn provided reassurance and demonstrates commitment
- The completion of a Custom Project is a relationship building opportunity
- Small projects have a big impact



E. Mullendore: Thank you Wade, Ray, Amy and Nosh

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Utility Fo	ocus Group Open Forum	
Discussion &	feedback from Utility Focus Group	
• Wha	r project success stories? t concerns and opportunities do you foresee as we approa and of the rate period, and how can ESI help?	ach





For more information, contact:

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