

S. Martin: Welcomed all and reviewed the agenda...

ngenda		Energy Smart Industria
<ul> <li>BPA EE and ESI program updates</li> <li>Safety/COVID updates</li> <li>FY21 pipeline, end-of-year forecast, and Custom Project lead-time</li> <li>Energy Management updates</li> </ul>	Steve Martin Eric Mullendore	11:00 - 11:30
Industrial Project Updates  • Klickitat PUD - Underwood Fruit	Anita Clever, Christian Miner	11:30-11:45
UFG Open Forum, BPA Evaluation update, and Reminders	All	Remaining time

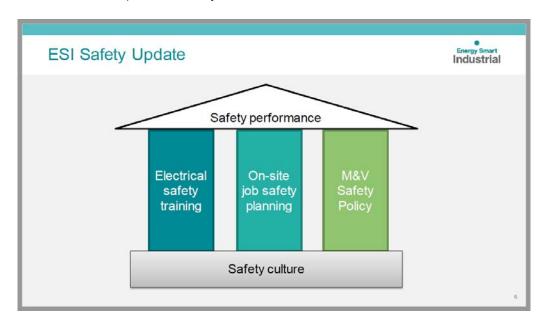
Steve M. cont'd: We take safety seriously – promote safety awareness with our team. Annual safety trainings and each meeting features a safety topic.

Electrical safety training – for ESI team and TSP team.

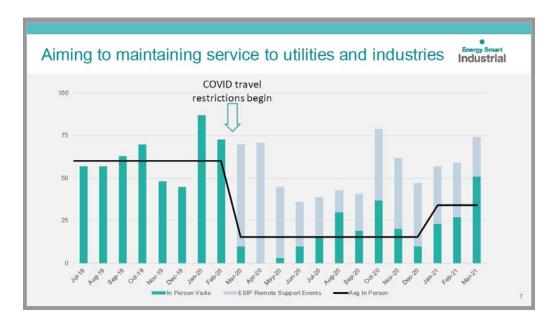
On-site job safety planning

Enhanced M&V Safety Policy – changed the way we view of power readings...we have not had to ask for an exception in the past 3 years. Significant improvement in safety practices; not had any negative experiences.

Safety Performance – 11 years of no injuries for all of the ESI team.



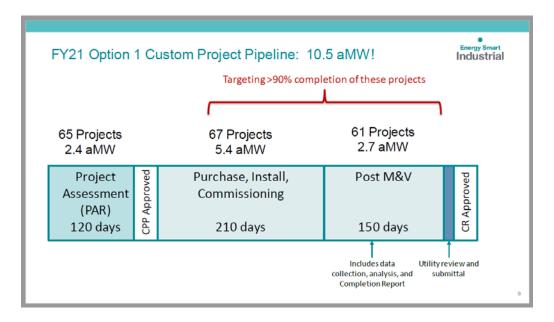
Steve M. cont'd: 21 months of site visits...endeavor to maintain high level of engagement; increased 2x – March increased 50+ because of SEM cohort kick-off.



Steve M. cont'd: Look ahead, Continued COVID precautions: vaccinations more prevalent – four key pillars.

## ESI's safety commitments Coordination with utility staff before site visits On-site mask wearing and social distancing for the protection of others Staff performing site visits have no known symptoms or exposures Compliance with local, state, and federal regulations

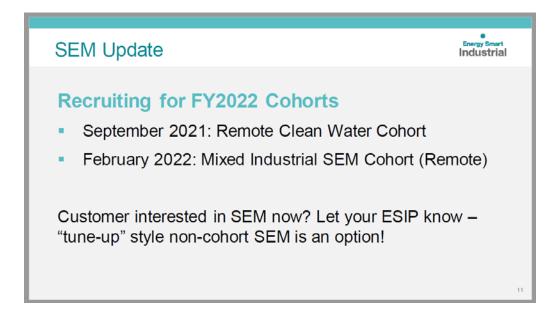
Steve M. cont'd: Pipeline and year-end closeout. Custom project pipeline is largest ever 10.5 aMW! Move left to right...avg CP has lifecycle of one year. Most projects should be beyond CPP approval and getting close to Post M&V. Really focused on projects being installed, commissioned and into M&V. Target to complete 90% of these projects. We have 65 projects that are either small industrial or will be CR-only. Most of the projects have equipment purchased – incentives at the end of the project is a great incentive to get it done.



Steve M. cont'd: Custom Project Return Rate – first year or two – 1 in 5 were returned... each return = added work. Recent efforts...2020 Quality Control effort lead by Eva Urbatsch. So far only 1 project was returned...less than 2% in FY2021. Our objective to hold at this level.



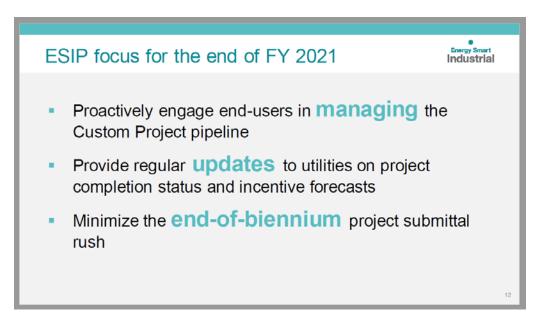
Steve M. cont'd: SEM Update: COVID delayed the launch of a new water energy coaching cohort this past winter...Municipal Water entity ... reach out to your ESIP... Hybrid format – largely web-based with some on-site work.



Steve M. cont'd: ESIPs are focused on being proactive with managing the CP pipeline with end users and utilities. Systems are properly commissioned.

Providing regular updates on project completions. If you have any end-of-year biennium budget issues, reach out to your EER.

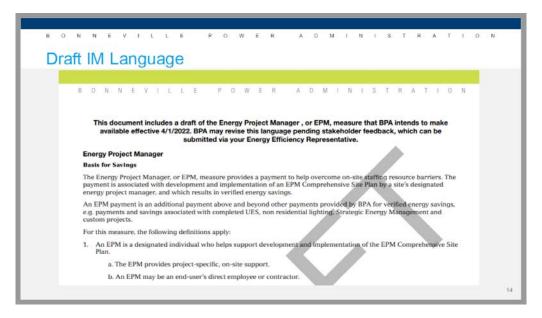
Endeavoring to avoid the hockey stick – mad rush on getting projects done just before the EOY. Hand over to Eric Mullendore...



E. Mullendore: New channel to communicate upcoming changes to the Energy Management measures – new website: <a href="https://www.bpa.gov/EE/Sectors/Industrial/Pages/New-Energy-Management.aspx">https://www.bpa.gov/EE/Sectors/Industrial/Pages/New-Energy-Management.aspx</a>



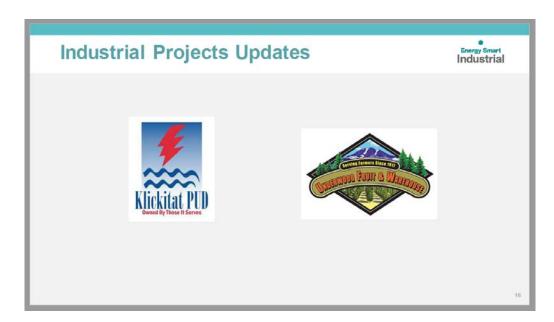
Eric M. cont'd: Draft IM Language for EPM... this is a draft...we are interested in your feedback. Either existing or new end user – streamline measure and lower the threshold for participation and identified opportunities – 200,000 kWh...



Eric M. cont'd: The IM is more conversational; FAQ includes more detail to help ones better understand. Commercial EPMs – Utilities will be owners and managers of those efforts and relationships. Living documents, questions and responses submitted will cause us to update this document.

I wanted you to know about the channels that we are using to share updates and proposed changes.





Anita C.: Klickitat PUD is located in Goldendale, WA. I am the Key accts/Energy Services. Underwood Fruit is a large fruit packing and cold storage company and employer. FY2016 did a few projects, cherry processing did a nice lighting and air compressor and dryer. 2017 affected by a fire...had a refrigeration upgrade and fast acting doors in another.





- Underwood Fruit owns and operates multiple controlled atmosphere, fruit storage facilities in the Columbia Gorge and recently built a new cold storage and packing facility.
- 2. Advent of the project How did this project develop?
  - a. In 2017 a fire forced Underwood to make major technology investments.
- 3. How the facility works Order fulfillment
- a. The new facility houses an automated "shuttle to fetch pallet" system.
- b. Underwood is only the third installation of the system, and the first for the fruit industry, by Advance Storage Products of Huntington Beach, California.
- 4. Key drivers of the project
  - a. Terry Beckwith and Tim Ladoucuer Subject matter experts
  - b. Comfort level with ESI Previous successes with VFD and compressor projects

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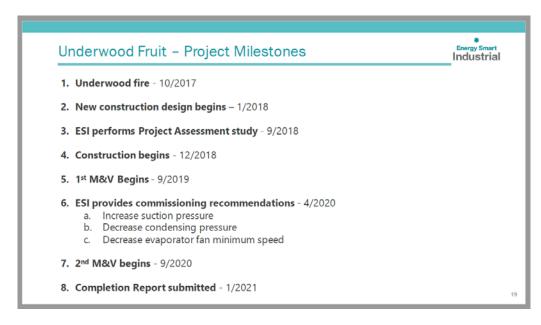
C. Minor: I am the ESIP for Klickitat PUD...

Shuttle to fetch pallet system – pears will ripen from when picked to when it gets to the store and then to peoples' homes. Lots of automation – first in the fruit industry. Terry Beckwith – Director of Facilities since 1969; Tim Landoucer –

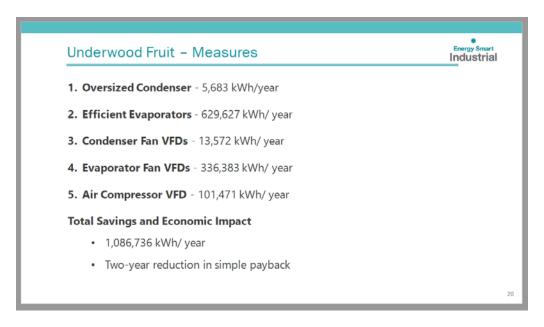


Left pic – photo of site; Middle pic – conference room...original sign (circa 1904) on wall was rescued from the fire; Right pic – shows the new pallet automation.

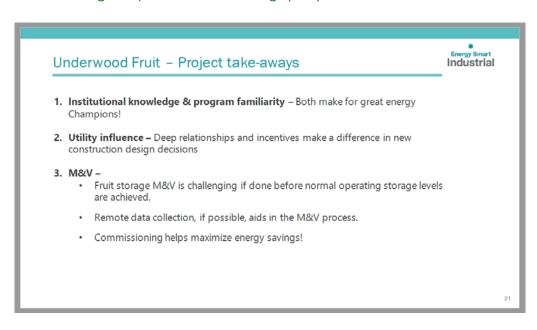
Christian M. cont'd: Project milestone – lots of office space (HQ) in addition to cold storage and warehouse. Commissioning Memo advised how to adjust refrigeration system i.e., set-points to suction pressure, condensing pressure and evaporator fan speed – brought 70% energy savings – prior to M&V was to begin.



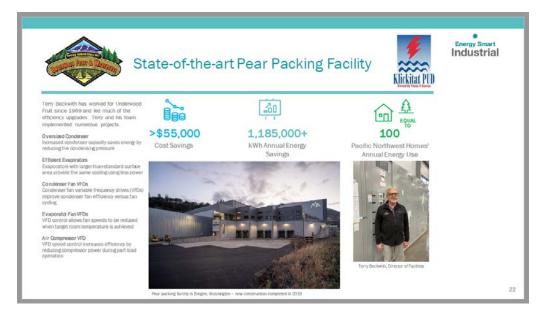
Christian M. cont'd: Measures... Efficient evaporators made up the largest area of savings. Final project numbers a little over 1 million kWh – reduced the simple payback by 2 years with help from Anita and Klickitat PUD.



Christian M. cont'd: Project takeaways... experienced SMEs with institutional knowledge and very familiar to the ESI program; relationships with utility team and the incentives they provide really push things along. M&V – Underwood's customers are not necessarily local – but rather all over the US. Commissioning really maximize the savings (70%).



Christian M. cont'd: Big Check Ceremony in May 2020 - Project Success Poster.

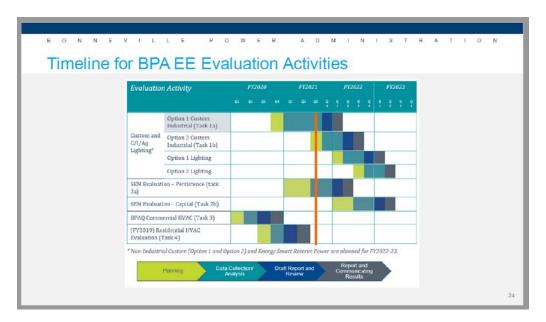


T. Amundson: Utility Focus Group Open Forum – anyone like to share their project success story? Or do you have any concerns or questions?



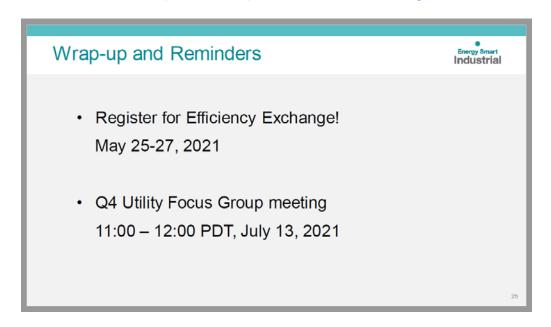
No comments or questions.

Todd A. cont'd: Evaluation updates...Option 1 Industrial CPs nearing the end of the data collection and analysis % through...SEM Evaluation efforts is ¼ of the way through the data collection and analysis process. Option 2 Custom Industrial planning efforts are almost at the halfway point. Any questions?



## No questions...

E. Mullendore: Reminders ... One month and a couple of days...register to attend the virtual Efficiency Exchange. Next UFG meeting will be on July 13 – tentative... any concerns or conflicts, please let Jennifer Wood know. Considering migration from GoToMeeting to Microsoft Teams...let us know if you have any concerns with that change.



Adjourned at 11:55 am.