

The background of the slide is a blurred image of industrial machinery, featuring various pipes, valves, and mechanical components in shades of green, grey, and white. The text is overlaid on this background.

Energy Smart Industrial Utility Focus Group Meeting

January 14, 2020

Facilitator:

**Michelle Lichtenfels, Commercial & Industrial Sector Lead
Energy Efficiency**

Bonneville Power Administration

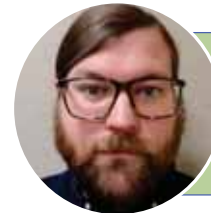
Agenda

Program Updates	Michelle Lichtenfels and Steve Martin	11:00 – 11:25 am
2020-21 Evaluation Plan	Todd Amundson	11:25 -11:30 am
Lower Columbia Wastewater Energy Coaching (WEC) Cohort Update	Sara York, Zeecha Van Hoose, and Tim Lammers	11:30-11:45 am
Wrap up	All	Remaining time

BPA Commercial & Industrial Sector: Program Staff & Tech Leads



Ryan LeBaron
Program Manager
Commercial



Eric Mullendore
Program Manager
Industrial



Rob Burr
Program Support
Commercial



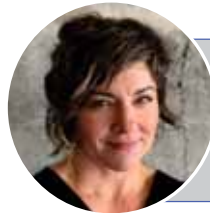
Jennifer Wood
Program Support
Industrial



Jamie Anthony
Engineer, Tech Lead
Commercial



Todd Amundson
Engineer, Tech Lead
Industrial



Michelle Lichtenfels
C&I Sector Lead

ESI Contract Oversight Team



Michelle Lichtenfels
C&I Sector Lead
Contracting Officer's Rep



Eric Mullendore
Program Manager
Field Inspector



Jennifer Wood
Program Support
Field Inspector



Todd Amundson
Engineer, Tech Lead
Field Inspector



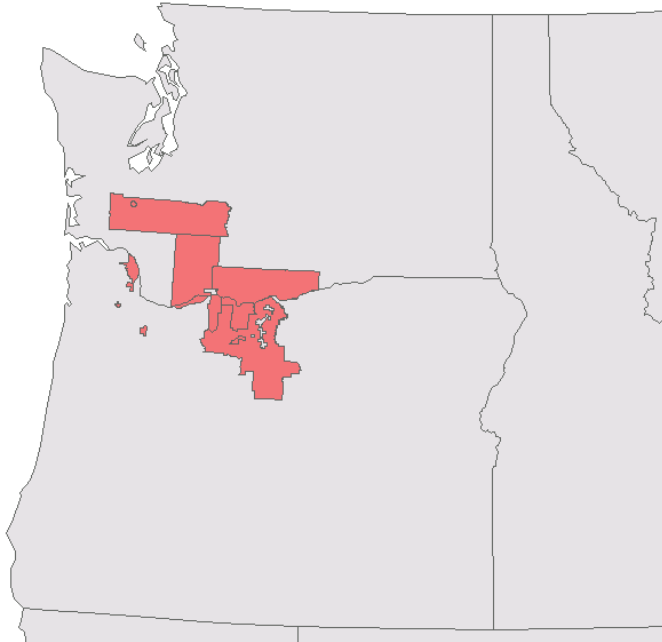
Nathan Kelly
Engineer
Field Inspector

FY 20-21 Utility Assignment Updates

ESIP utility assignments are periodically adjusted to:

- Balance workload
- Optimize travel
- Align industry segment specialization

Utility Assignments for Christian Miner



Existing assignments

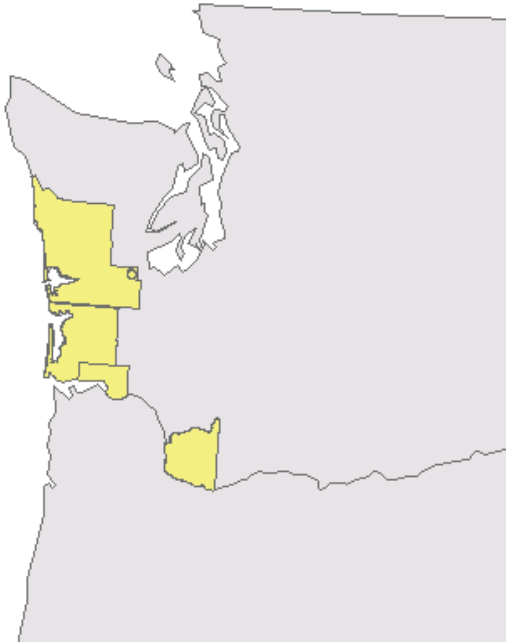
- Canby
- Cascade Locks

New assignments

- Centralia
- Forest Grove
- Columbia River
- Hood River
- Klickitat
- Lewis County
- No. Wasco
- Skamania
- Wasco



Utility Assignments for Bill Kostich



Existing Assignments

- Grays Harbor County PUD
- City of McCleary
- Pacific County PUD No.2
- Wahkiakum County PUD

New Assignment

- Clark Public Utilities



New Assignments for Bob Brennand, Ray Hardiman, and Jimmy Sauter



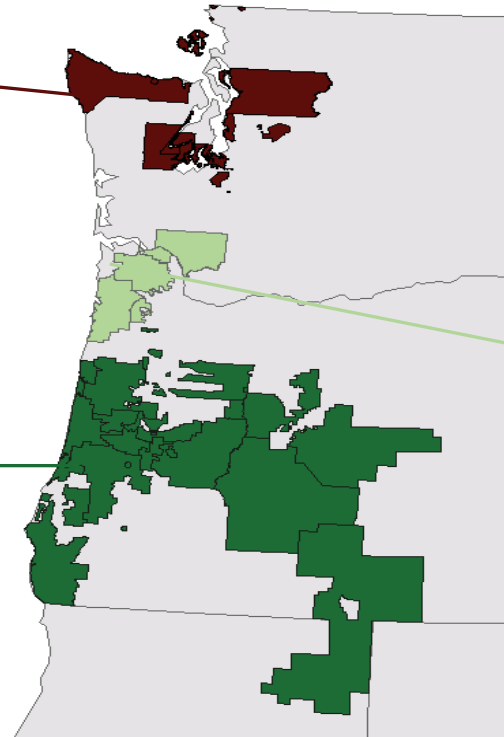
Bob Brennand

- Mason County PUD No.1
- Mason County PUD No.3
- Lakeview Power and Light
- Peninsula Light



Ray Hardiman

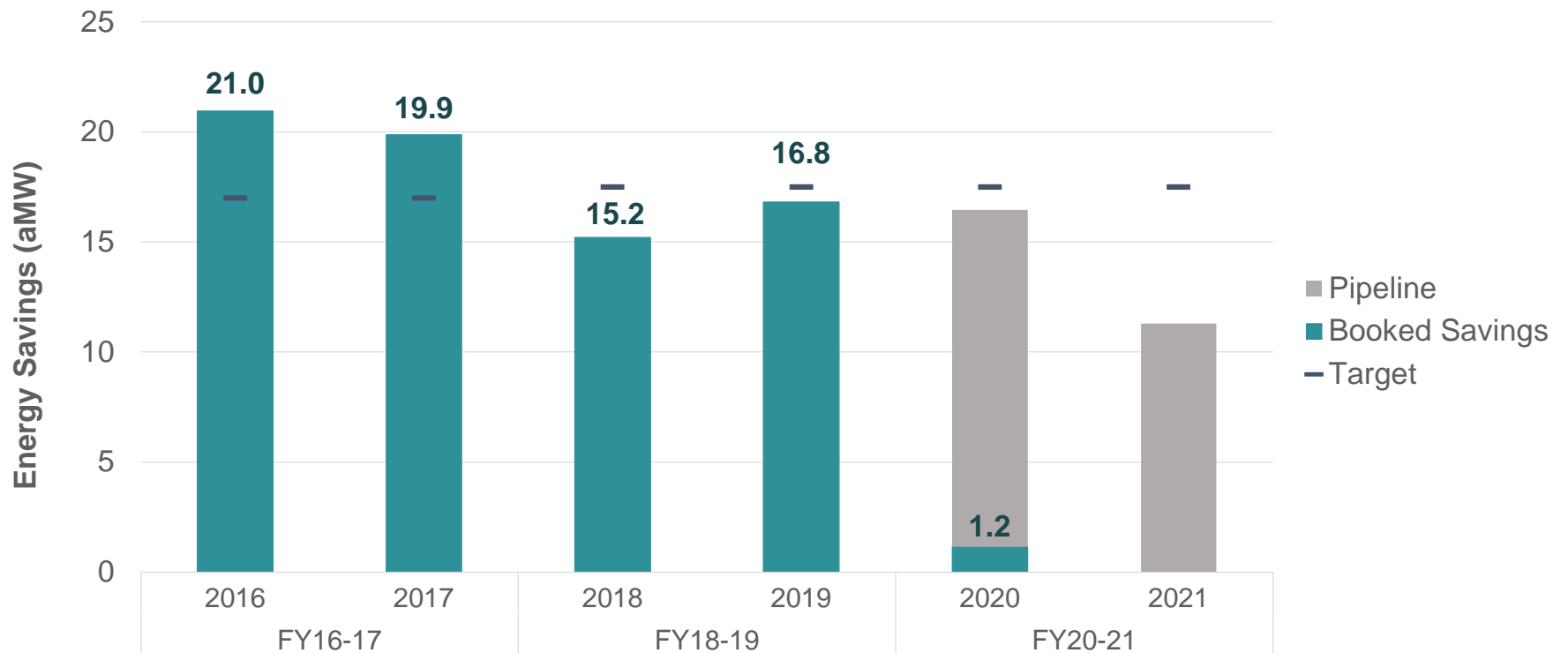
- Salem Electric



Jimmy Sauter

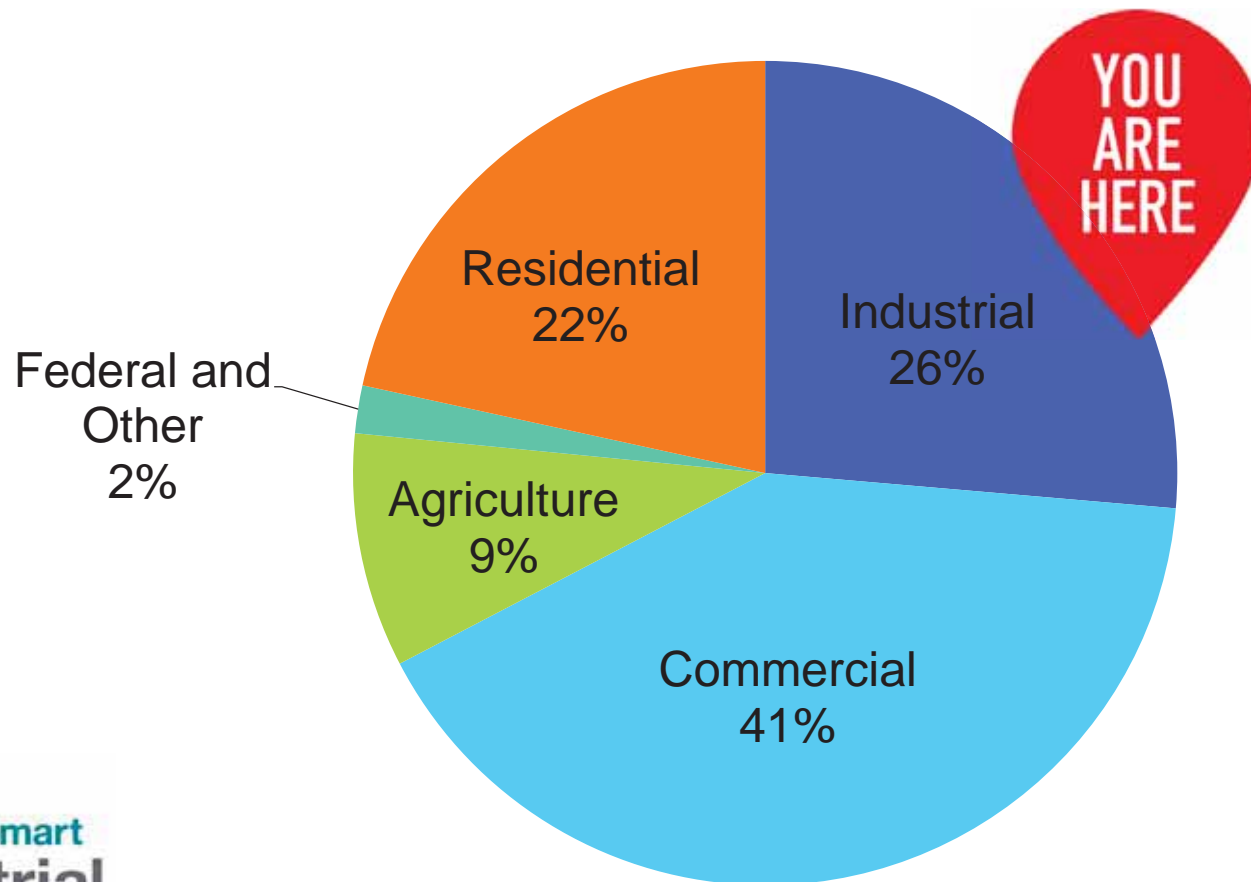
- West Oregon Electric Coop

Savings Achievements & Forecast

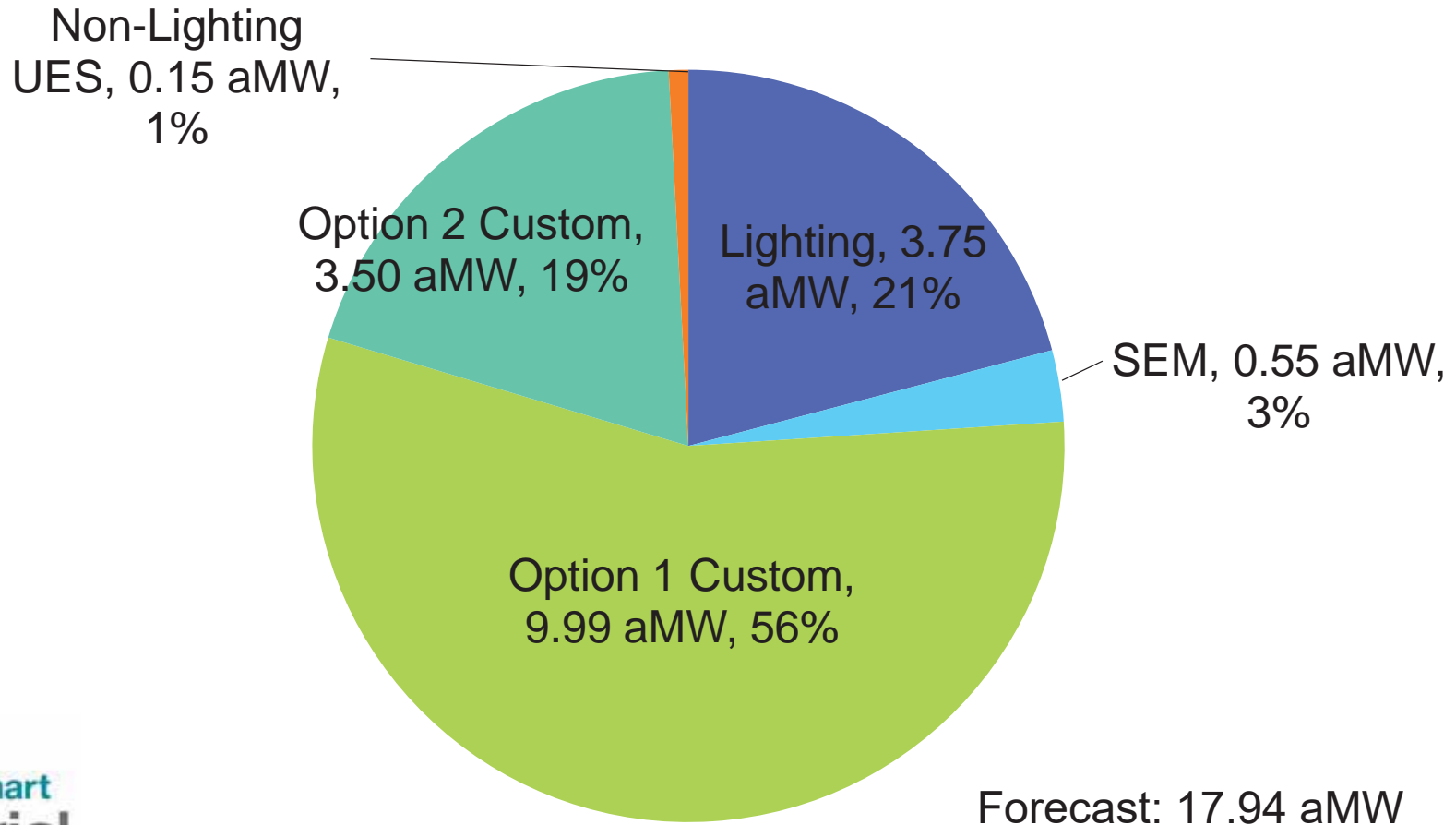


- FY20 projection is based on Option 1 CP and SEM pipeline plus estimated savings from UES lighting, Option 2 CPs, and non-lighting UES measures.
- Booked savings are inclusive of invoices approved through December 5, 2019

2018-2019 Rate Period Savings

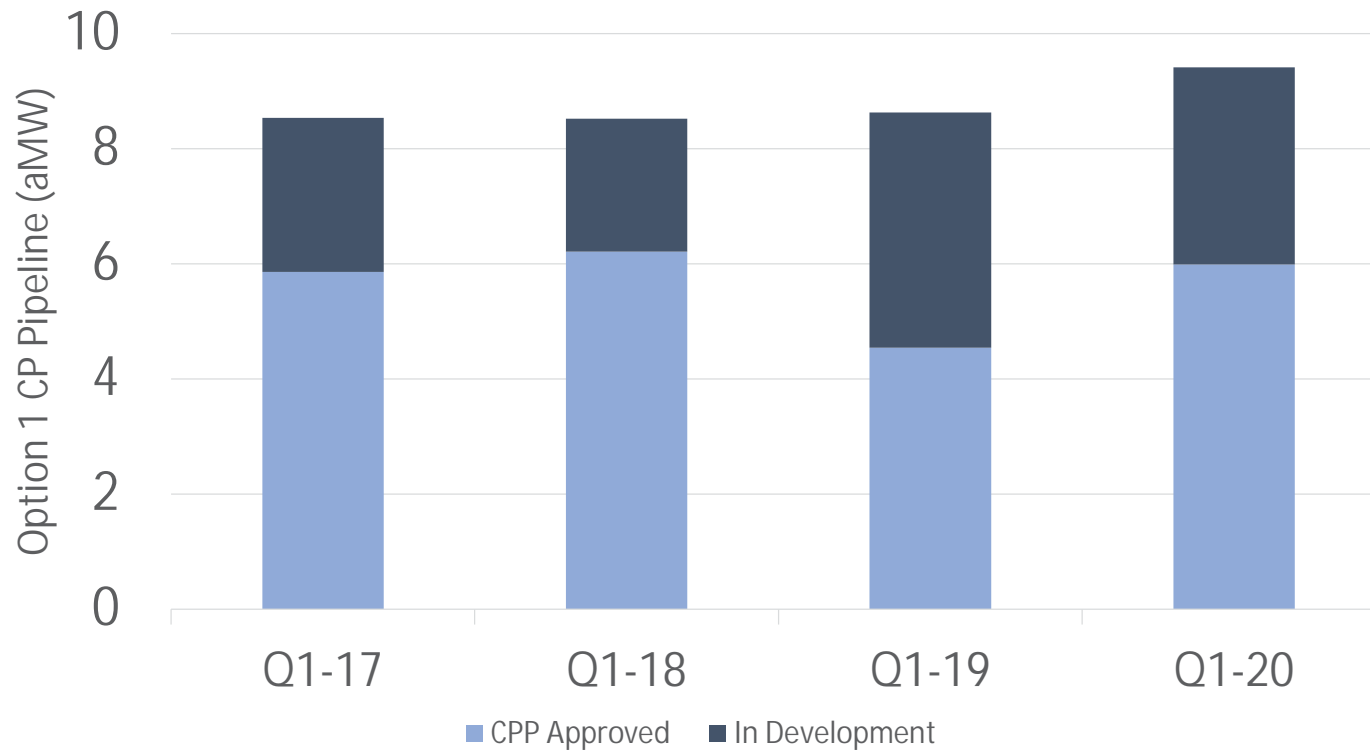


FY 20 Forecast by Measure Category



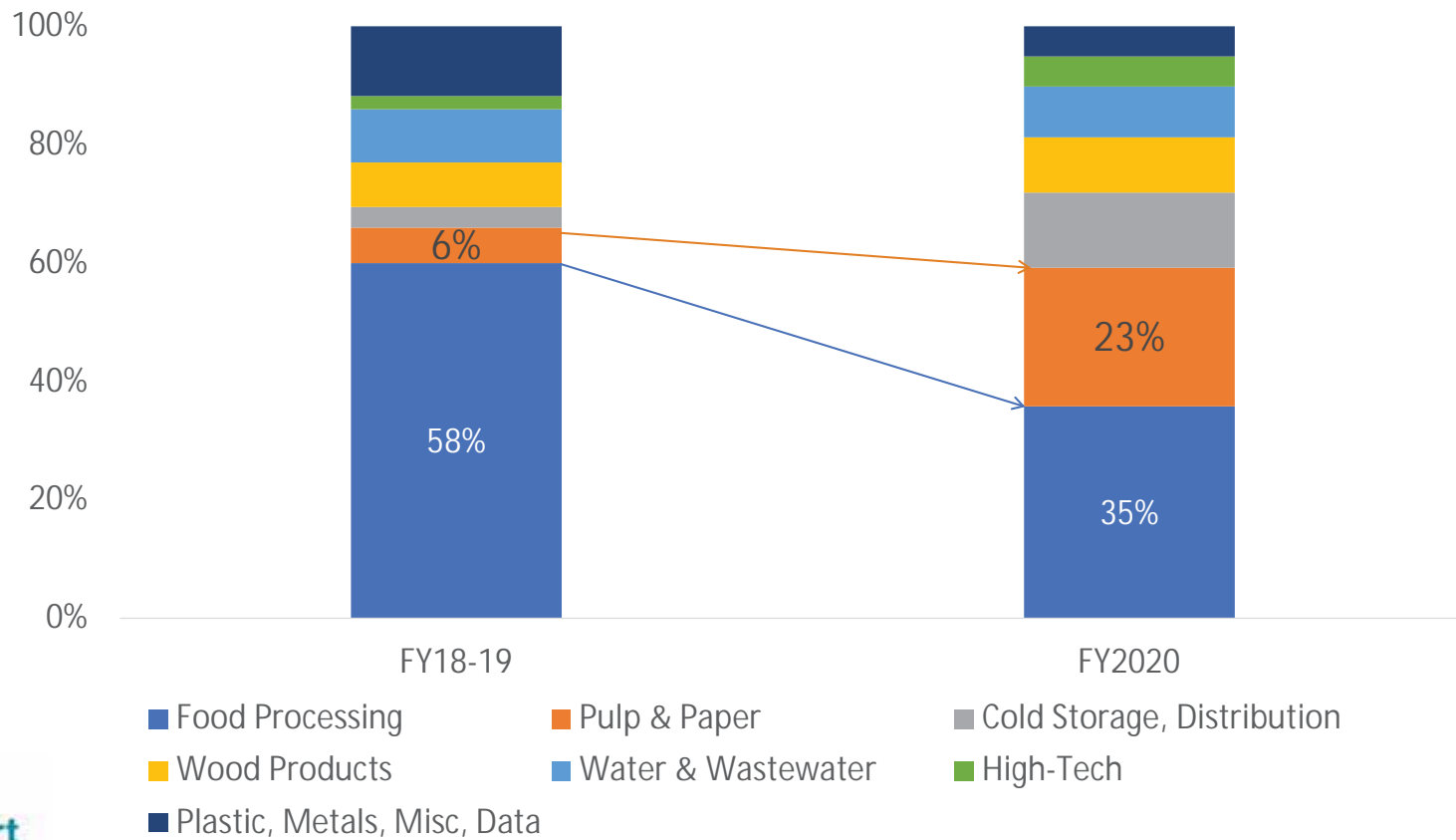
Option 1 Custom Project Pipeline

(Comparison of 9-month forward forecasts)

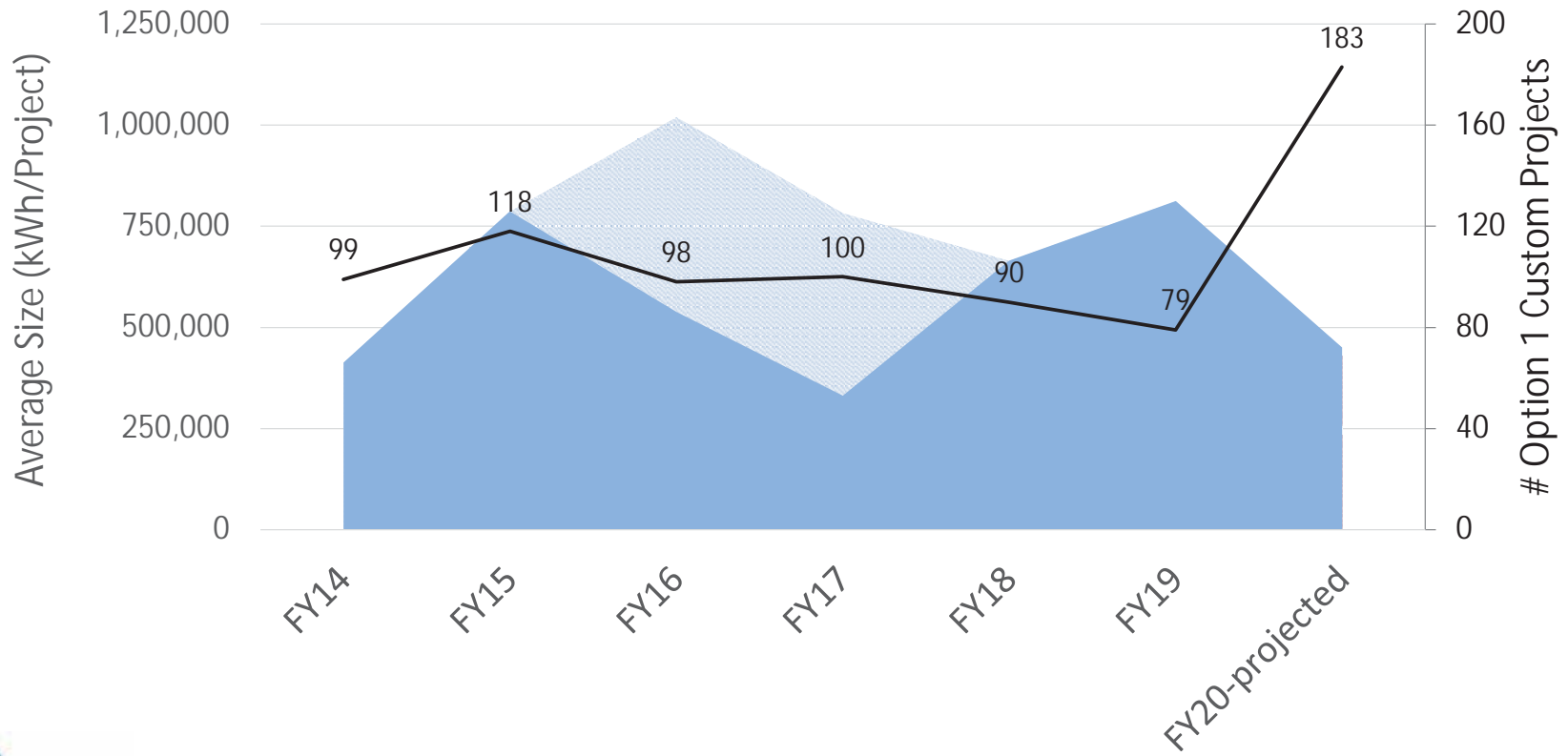


*CPP-Approved category includes projects in M&V status, whether or not the project had an approved proposal

Option 1 CP Savings by Industry Segment



Average Custom Project Size



■ Avg Savings inc Mega Projects

■ Avg Svgs without Mega Projects

— # Option 1 CPs

Utility in the News!

The City of Heyburn, ID and Gossner Foods partner to implement energy efficient upgrades




Officials from the city of Heyburn, Bonneville Power Administration and Gossner Foods gathered Tuesday to celebrate an energy efficiency project at the Heyburn cheese plant. Gossner received \$75,000 from BPA's Energy Smart Industrial Program through the city for the project.

LAURIE WELCH, TIMES-NEWS

“For us it means the opportunity to continue growing. It helps with energy efficiency and that provides for potential expansion in the future.”

Brian Wilson – Plant Manager


“Project Success” Poster



End user logo

End user name

2019 Energy Savings Projects



Utility logo

Projects implemented

Installed Variable Frequency Drives (VFDs) on:

- Beta Vacuum Pumps
- Tower Vacuum Pumps
- Evaporator Fans


VFDs allow a motor to run at a slower speed. This allows for more precise control of the process. A fan that was drawing 10-hp at 100% speed may only draw 4hp at 70% speed.

Installed a Logix Control System on the South Refrigeration System

This Control System optimizes the operation of the refrigeration system.

Designed and installed photo eyes to Reduce Compressed Air usage in Packaging

Photo Eyes were installed to only blow when there is product on the packaging line. A timer will turn off compressed air once all product has passed. Compressed air is a very expensive utility. Reduction or elimination of compressed air will save energy.




1,100,000

kWh Annual Energy Savings




\$63,000

Annual avoided cost




141

Energy Savings in # of Homes
(electricity consumption annually)



“What ideas do you have to save energy?”

CONTACT







2020 EVALUATION PLANS

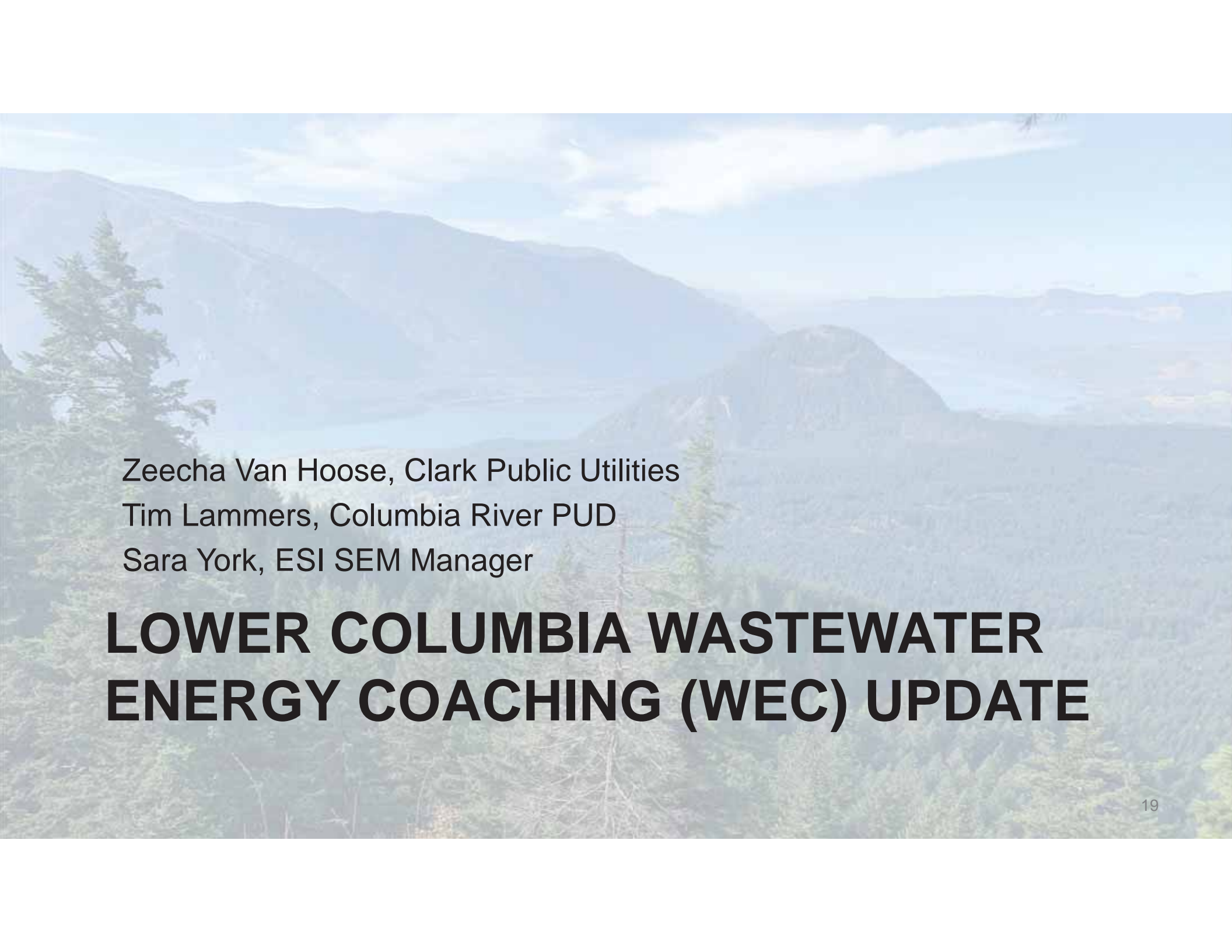
Todd Amundson, BPA EE Industrial Engineer, Technical Lead

BPA Industrial Sector Evaluation Plan

Impact Evaluation: Est'd 2020-2021

- Site specific savings
- SEM savings

Note: BPA [Impact Evaluation Brown Bag](#) on January 16, 2020



Zeecha Van Hoose, Clark Public Utilities

Tim Lammers, Columbia River PUD

Sara York, ESI SEM Manager

LOWER COLUMBIA WASTEWATER ENERGY COACHING (WEC) UPDATE

WEC Lower Columbia Overview

7 Wastewater Facilities

Served by **Clark** and **Columbia River PUDs**

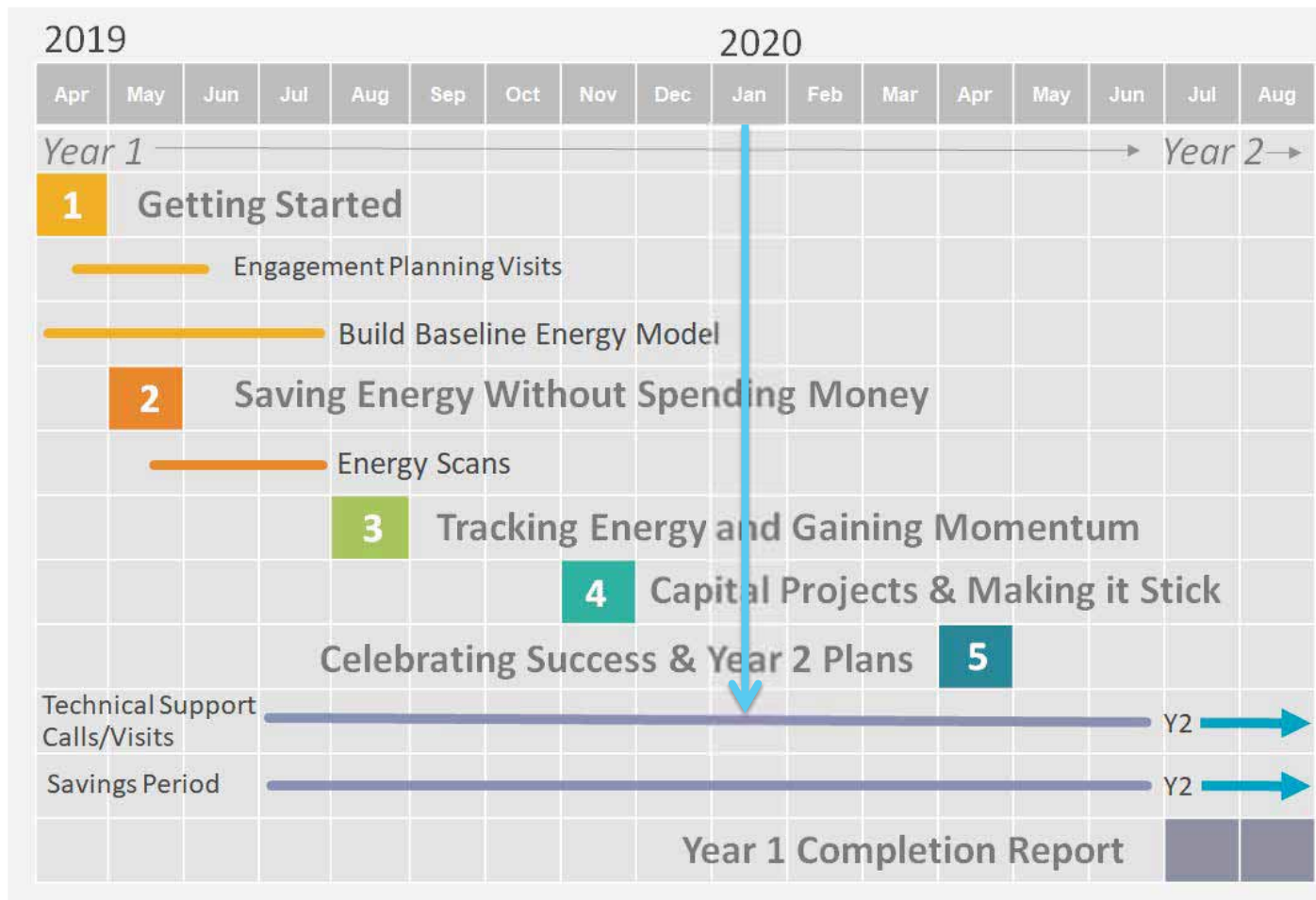
30.9 million kWh/yr Total Annual Consumption

2.1 million kWh (**6.9%**) of Low/No-Cost Potential Identified
69 of 134 Tracked Projects Completed (51%)

41 Potential Custom Projects Identified



WEC Year 1 Curriculum



Benefits to Participants



Earn performance-based cash incentives



Earn continuing education credits



Reduce electric bill



Optimize system efficiency



Receive technical support

Workshops and Relationships

Peer interaction


Explore other facilities

Forum to share and learn

Industry-specific content

Value **outside perspectives**

- Other SEM participants
- Subject matter experts



Yesterday's workshop was awesome, I'm glad this program exists and that we're participating.

Wrap-up & Reminders

Questions & feedback from Utility Focus Group

BPA Evaluation Brown Bag: Thursday, January 16

BPA Trade Ally Network NW spring workshops: Register now at www.tradeallynetworknw.com!

Implementation Manual April 2020 updates coming soon

A photograph of industrial machinery, likely a steam engine or boiler, featuring several large, white, five-spoke handwheels. The machinery is set against a background of a large, industrial building with a complex steel truss roof structure. The lighting is warm and slightly dim, giving the scene a historical or vintage feel.

Thank you!

For more information, contact:

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Commercial & Industrial Sector Lead, Energy Efficiency

Bonneville Power Administration

melichtenfels@bpa.gov

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