

Clean Energy Planning Engagement Series for Oregon Tribal Nations

July 21, 2023



Clean Energy Planning Engagement Series for Oregon Tribal Nations

July 21, 2023, 9:00-11:00 a.m., PT

For a Better Meeting Experience



- Use Gallery View (icon at top right) when in group discussion



- For technical support, chat "Tag G-D / E Source" as recipient, and send your message

- Questions are welcome at any time



- Please mute until speaking
- Speak by clicking the "Raise Hand" in the tool bar

AGENDA	
	Check In & Closing the Loop
	Solutions & Support
	CEP Update
	Energy Trust of Oregon
	BREAK (5 mins)
	Engagement Exploration
	Community-Based Renewable Energy
	Distribution System Planning Update
	Next Steps

Today's Presenters



Christina Medina
Manager, Stakeholder
Policy & Engagement



Stephanie Meeks
Regulatory Manager



Caryn Appler
Sr Outreach Manager
Energy Trust of Oregon



Ryan Harvey
Community Renewables
Program Manager



Ian Hoogendam
Distribution System
Planning Manager



Morgan Westberry
E Source Facilitator

What is a recent project or activity that you are excited about?

Closing the Loop from Last Meeting

Focus on action:

- Overview of the resources available and support programs offered, as well as how to access them
- Engagement opportunities for expanded impact of the Energy Efficiency Road Show
- Dialogue around Community Benefit Indicators and input on how to shape and measure community benefits



CEP Update

Clean Energy Plan Update

PacifiCorp's inaugural Clean Energy Plan (CEP) was filed on May 31, 2023.

Seven Components to PacifiCorp's Oregon Clean Energy Plan (CEP)

- Community Engagement
- Community Benefit Indicators
- Resiliency
- Community-Based Renewable Energy Resource Planning
- Greenhouse Gas Emissions Analysis
- Action Plan



Clean Energy Plan Engagement

We host a virtual and recorded public informational meeting, the Clean Energy Engagement Series. These are scheduled every other month through 2023 to further discuss our Clean Energy Plan with members of the commission and the public.

For more information on our previous and upcoming meetings you can access the [Clean Energy Plan](#) on Pacific Power's website. From there, you will find links to view previously recorded meetings and sign up for upcoming meetings.



Energy Trust of Oregon



Energy Trust of Oregon Overview and Discussion

Pacific Power Tribal Nations July 21, 2023



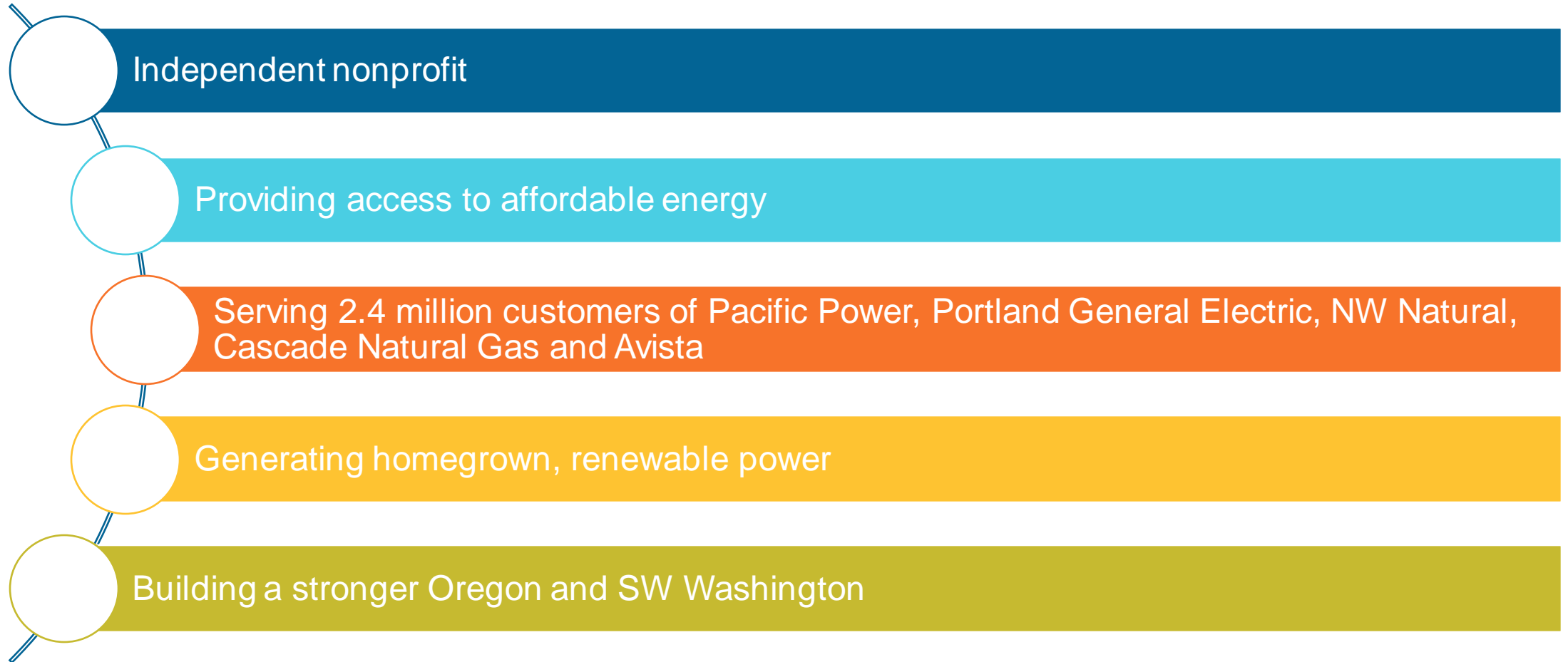
Agenda

- About Energy Trust
- Tribal community engagement
- Discussion
- Thank you and questions

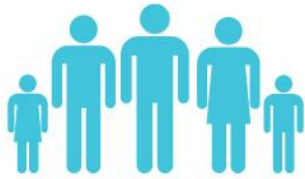
Energy Trust of Oregon

About Energy Trust

Who we are



Clean and affordable energy since 2002



Nearly 808,000 sites transformed into energy efficient, healthy, comfortable and productive homes and businesses



26,000 clean energy systems generating renewable power from the sun, wind, water, geothermal heat and biopower

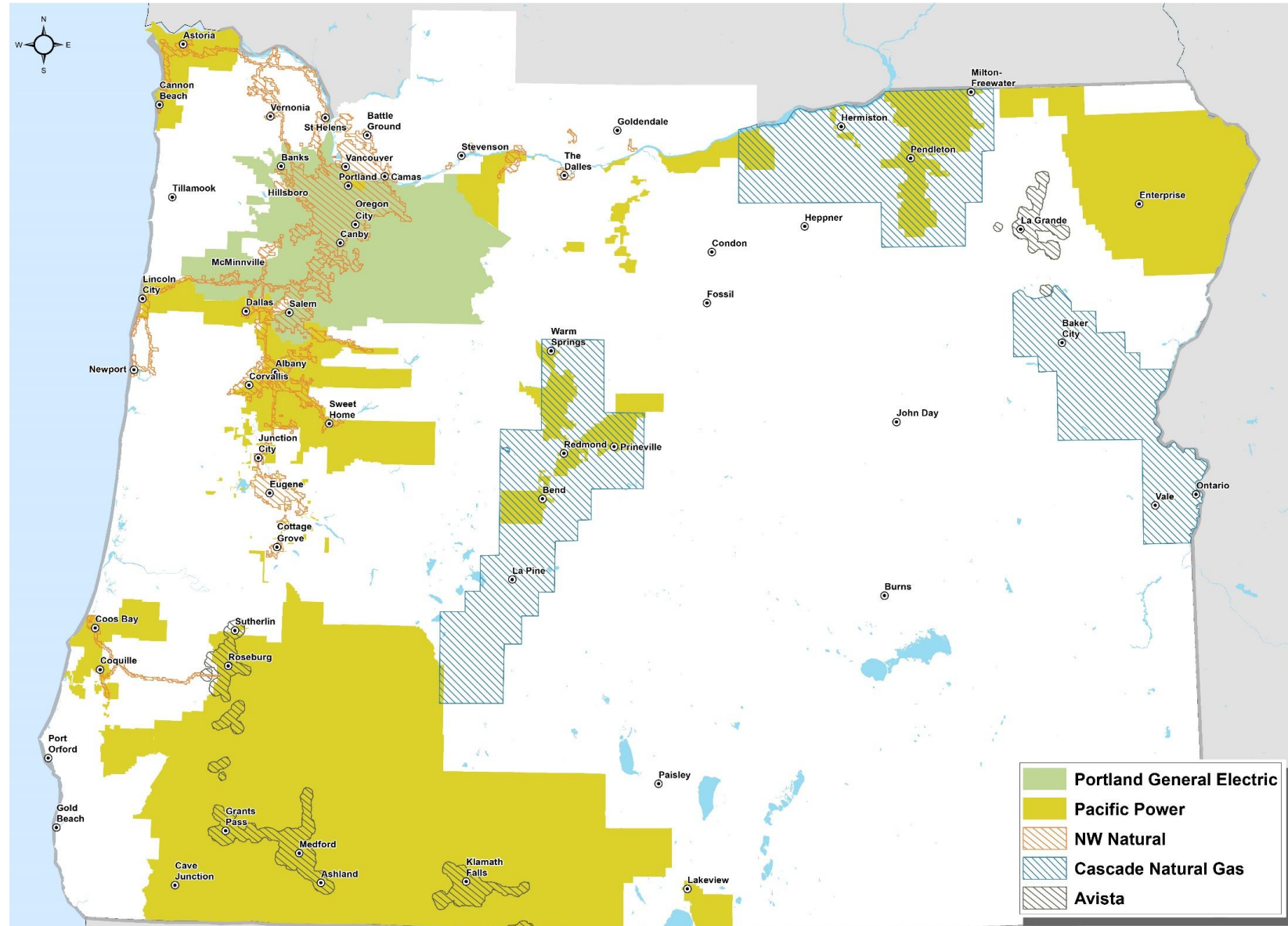


\$10.6 billion in savings over time on participant utility bills from their energy-efficiency and solar investments



39.3 million tons of carbon dioxide emissions kept out of our air, equal to removing 9.2 million cars from our roads for a year

ABOUT ENERGY TRUST



A photograph of a modern, single-story building with large windows and wood-paneled walls. The sun is shining brightly from behind the building, creating a lens flare effect. The building is set on a green lawn under a clear blue sky. A semi-transparent white banner is overlaid across the middle of the image, containing the text.

Our Vision:
Clean affordable energy for everyone



Our Purpose:

Help customers and communities
reduce costs and realize additional benefits
by saving energy and using renewable resources

Why Clean Energy?

- Lowers your utility bills
- Reduces overall costs for all utility customers
- Brings local jobs to your community
- Reduces our reliance on fossil fuel resources

Did you know?

For every \$1 invested in energy efficiency, customers save more than \$3?



ABOUT ENERGY TRUST

Ways We Can Help

Serving Customers

- Energy-efficient upgrades
- Renewable energy systems

Information and technical services

- No- and low-cost strategies
- Expert guidance
- Walk-through services

Cash Incentives and Discounts

- Renters and homeowners
- Commercial and multifamily property owners
- Industrial and agricultural businesses



Programs for All Customers



Serving Pacific Power Customers

**Serving
Customers
Together**



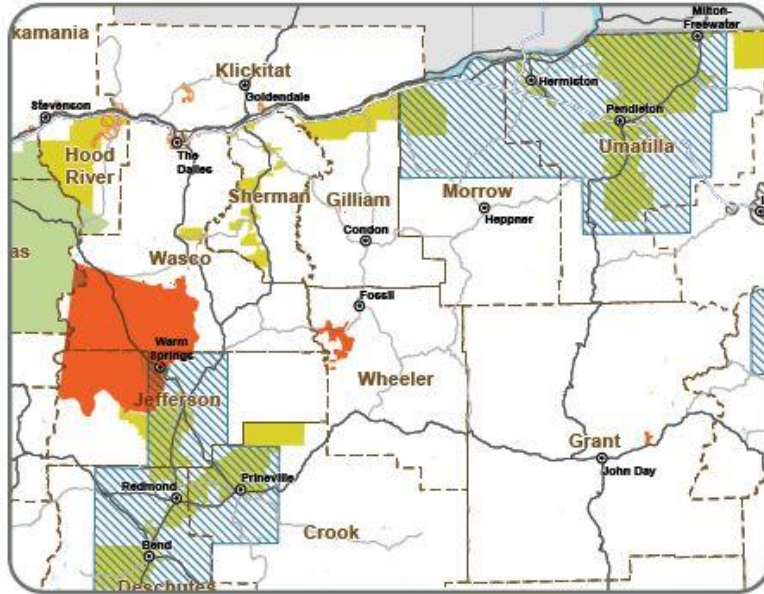
How we work in the field

Residential
Commercial
Agricultural
Industrial
Renewable




ENERGY TRUST OF OREGON OUTREACH

Energy Trust of Oregon is an independent nonprofit organization dedicated to helping utility customers benefit from saving energy and generating renewable power. Our services, cash incentives and energy solutions have helped participating customers of Portland General Electric, Pacific Power, NW Natural, Cascade Natural Gas and Avista save on energy bills. Our work helps keep energy costs as low as possible, creates jobs and builds a sustainable energy future.



Caryn Appler
 All Programs
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 541.561.1221
 Pendleton

-  Pacific Power
-  NW Natural
-  Cascade Natural Gas
-  Avista
-  Tribal Land

Commercial and Multifamily



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 Existing Buildings Commercial and Multifamily
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 541.419.7907
 Bend



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 New Buildings Commercial and Multifamily
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Industrial and Production Efficiency



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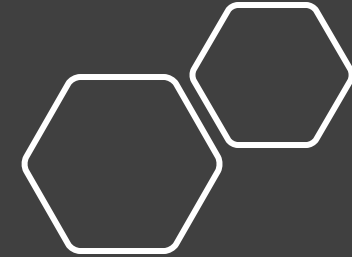
Residential



Nate Merrill
 Existing Residential
 nate.merrill@clearesult.com
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 Bend



Jesse Holland
 EPS New Homes
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 Bend



Focus on Engagement

OPUC Equity Metrics adopted for 2023

Diversity, Equity & Inclusion plan centering community engagement:

- Increase representation and readiness
- Shift and share leadership and power
- Increase community capacity and investments
- Increase transparency and accountability
- Deepen engagement in communities of color, rural communities and customers with low incomes

Community Presence



Example Community Partnerships

- Community Partner Funding offers higher incentives delivered by qualifying community-based organizations
- Working Together Grants support community-led activities that increase awareness of and access to Energy Trust offers
- Support for RARE members to build capacity in rural communities
- Collaboration with community-based organizations and local partners to bring incentives for rebuilding to disaster impacted communities



Tribal Working Group

- Formed in May 2022
 - Established monthly meeting series
 - Developed purpose statement and group agreements

- Participation
 - 5 tribal members, OPUC Tribal Liaison, Energy Trust staff
 - Recruitment of 9 federally recognized tribes in Oregon

- Work to date
 - Program informational sessions for feedback
 - Opportunities to increase engagement
 - Input in DEI Metrics
 - 2023 goal setting
 - Input on 2024 budget

Klamath Tribes

Elder Housing Participation in no-cost Ductless Heat Pump (DHP) program

- Worked with Tribal Housing and Turtle Cove Partnership
- Installation by local contractor Seasons Change
- Replaced baseboard heating with DHPs



Confederated Tribes of Warm Springs

Warm Springs Housing Authority

- Began with providing energy saving resources
- Enrolled in Community Partner Funding program in 2021
- Attic insulation incentive
- Completed 25 home energy assessments in 2022



Confederated Tribes of Grand Ronde

Elder Housing Development

- 38 unit rental development
 - Duplexes, triplexes and quadplexes
 - Focus on energy efficiency and resiliency
- Program support in 4 areas
 - Early Design Assistance
 - Energy Performance Score Program
 - Residential solar
 - Workforce development

TRIBAL COMMUNITY ENGAGEMENT

Confederated Tribes of the Umatilla Indian Reservation

Tímíne Way North Apartments

- Managed by Housing Authority
- 28 apartment units
- Participated in the new buildings multifamily program
- Offset power 175kW solar array
 - Blue Sky grant + \$75k incentive from Energy Trust



Photo credit: Confederated Umatilla Journal

Energy Trust of Oregon

Discussion

What we are learning

- Power of storytelling to showcase what tribal communities have accomplished is a good way to build credibility and value around program resources
- It is important to find out who the proper team is to engage with and “over-abundance of information is better than none at all.”
- Federally recognized tribes have two things in common 1) are sovereign governments 2) most have housing departments
- All tribes are different and have different needs related to resources

DISCUSSION

Tribal Nations Clean Energy Series Participation

- What other information would you like to know about?
- What is the best way to update you on our work?
- What is the best way to connect with you?
- Is there anything you would like to connect on now?

THANK YOU

Questions?

Sue Fletcher sue.fletcher@energytrust.org

Caryn Appler caryn.appler@energytrust.org

BREAK

Engagement Exploration Poll

Community-Based Renewable Energy (CBRE)

What We Will Cover Today

1. CBREs in the Clean Energy Plan
 - a) Overview
 - b) Potential Study Results
 - c) Costs and Benefits of CBREs
 - d) Core Commitments
2. Initial Opportunity to advance PAC's Survey Strategy
3. What Comes Next

Community-Based Renewable Energy

Community-Based Renewable Energy (CBRE) projects are defined as one or more energy systems, and may be combined with microgrids, storage systems, demand response measures, or energy-related infrastructure that promotes climate resiliency

CBRE projects must:

- Directly benefit communities through community-benefit agreements or direct ownership by local government, nonprofit entities, or federally recognized Indian tribes; or
- Increase resiliency or community stability, local jobs, economic development, or direct energy cost savings to families and small businesses

CBREs in the 2023 Clean Energy Plan:

1. A study of potential future projects
2. An assessment of the costs and benefits
3. Modeling results from the Integrated Resource Plan
4. Core Commitments to advance CBRE development



Inventory-Informed “Potential Study”

PacifiCorp reviewed existing programs and projects and new channels to identify 95MW of future potential CBRE opportunities. The potential has been organized into Two Groups:

1) Group 1- Potential from Existing Programs: Total ~ 92 MWs

- a. Community Solar: Customers participate in offsite solar for a monthly bill reduction. Total 65 MWs
- b. Blue Sky Program: Long-running voluntary renewables add-on. Total 4.3 MWs
- c. Energy Trust-Identified Opportunities: Small hydro + Community-focused solar. Total ~ 23 MWs

2) Group 2 - Small Scale, Community-Based Solar + Storage projects: Total ~ 3.5 MWs

- a. Based on experience from the PacifiCorp’s Community Battery Storage Pilot program and OR Dept. of Energy Community Renewable Energy Project grant funding requests
- b. This portion of the potential reflects the possibility for small-scale, community-based solar + storage opportunities
- c. These may include opportunities like “resilience hubs”, small solar connected micro-grids or other community-focused renewable opportunities

Costs and Benefits of CBRE Projects

“The key unique benefit for small-scale or community-based projects is local resilience.”

“Costs of renewable energy projects, in general, decrease as the project gets larger.”

“The workgroup agreed that future policy decisions should be based on a principle of equitable distribution of costs and benefits.”

Source: ODOE Study of Small-Scale and Community Based Renewable Energy Projects, 2022

Summary of CBRE Commitments

- 1. Continued Assessment of Needs and Opportunities (Expand the CBRE Potential Study)**
 - Continue to advance CBRE initiatives through community input and engagement groups
 - Develop and conduct a survey to further assess community interest in CBRE projects and initiatives
 - Update CBRE Action Plan based on continued learnings
- 2. Develop straw proposal for expansion of the Community Resilience Battery Storage Pilot**
focused on community resilience hubs
- 3. Explore opportunities to leverage public funding** to advance CBRE opportunities
- 4. Build tools and awareness to assist communities and stakeholders** in connecting to CBRE processes, initiatives, and programs as they develop

Areas for Oregon Community Feedback/Input

We are expanding feedback channels for CBRE input, including launching this survey that has the following questions:



<https://forms.office.com/r/sVcHxXKVLLe>

Please provide input by August 1, 2023

1. Can you recommend ways that PacifiCorp can more effectively assess community interest in CBRE projects over time?
2. Do you have suggestions on how PacifiCorp can increase input from all communities?
3. How would you like to engage and provide feedback in this process moving forward? Do you have any examples of successful engagement approaches?
4. Are there specific tools you recommend to use to solicit input (e.g., email, web surveys, direct engagement, etc.)?
5. Should anything else be included in this survey?

Next Steps for CBREs...

- Upcoming CEP Engagement Group meeting on 8/25
- Continue the development of a survey plan
- Initial discussion/rollout of grant pilot straw proposal
- Develop materials to support community engagement with CBREs

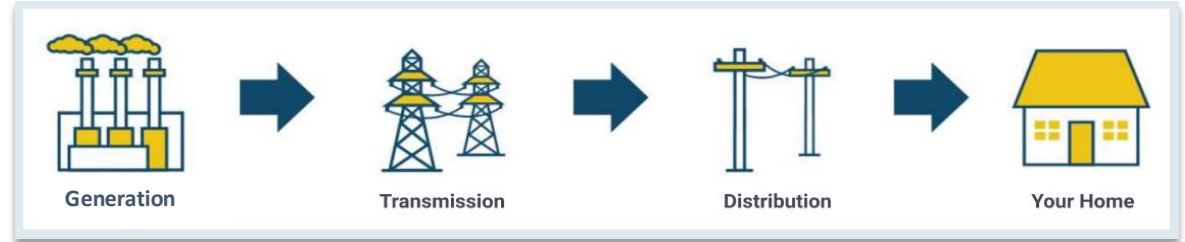
Distribution System Planning (DSP) Update

What We Will Cover Today



Distribution System Planning - Introduction

Past Grid



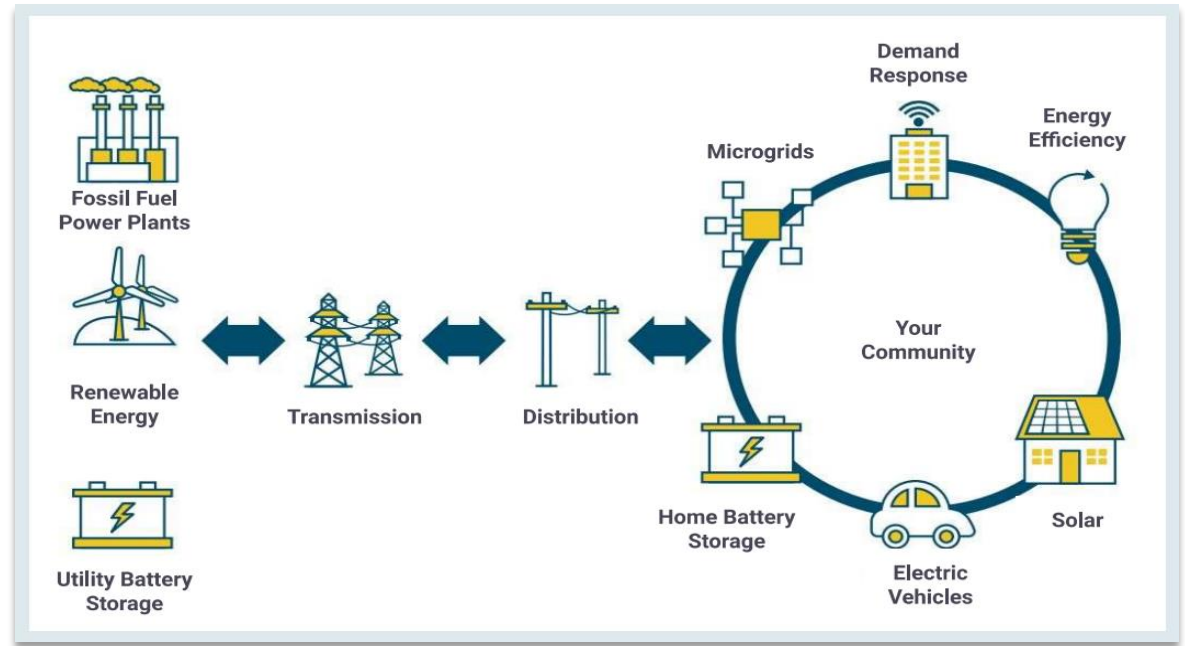
What is Oregon DSP?

- Advancements to traditional DSP based on guidelines proposed by Oregon PUC staff
- Increased transparency of DSP processes to meet the needs and leverage the capabilities of the modern grid

Key Changes to Traditional DSP

- Evaluation of *nontraditional solutions* to meet grid needs
- Increased *community engagement*
- Enhanced *forecasting*:
 - 24-hour load profiles
 - Inclusion of incremental electric vehicle (EV) and solar adoption rates

Modern Grid



Electric Grid Overview

Generation

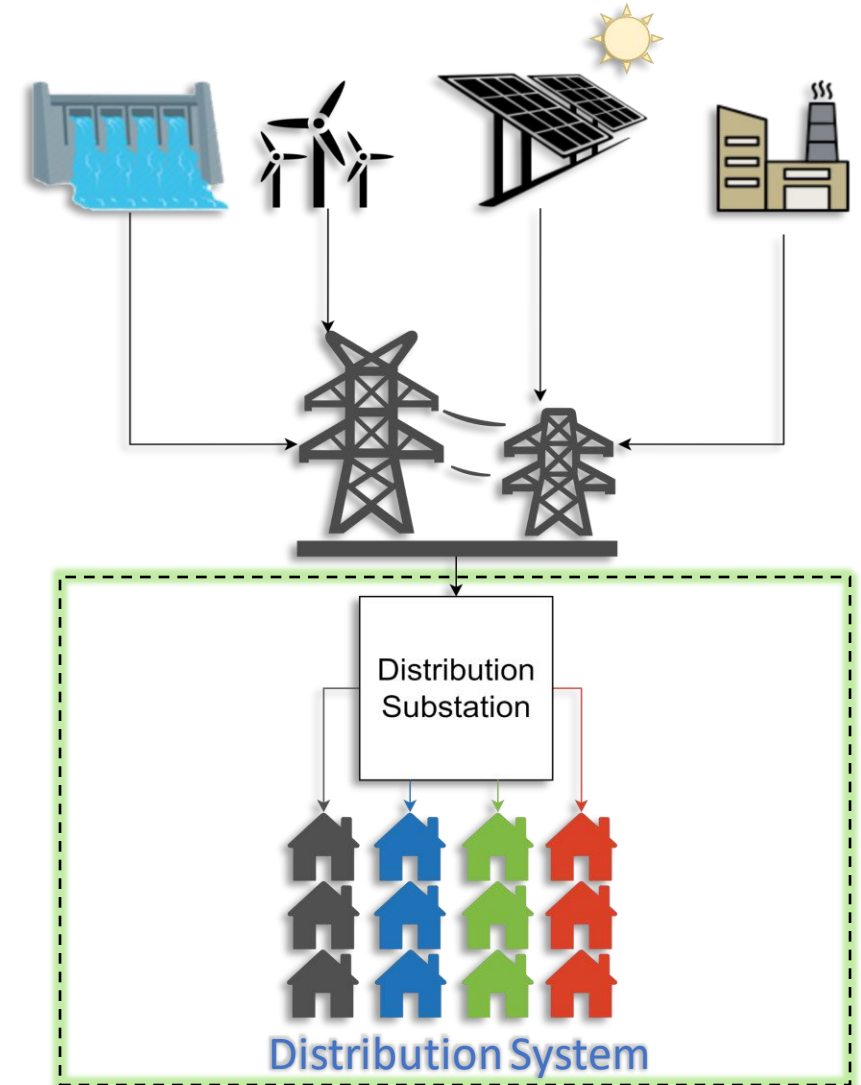
- Produces power

Transmission System

- Transmits power from generation plants to distribution substations
- Interstate highway of the electric grid
- High voltage
- High redundancy

Distribution System

- Starts at distribution substation and ends at customer meter
- Distribution **substations**: interstate highway exits
- Distribution **circuits**: roads that connect the exit to the homes and businesses of the community
- Delivers power to consumers via poles and wires
- Medium voltage



Traditional Vs Nontraditional Solutions

Traditional Solutions

Address grid needs with poles, wires, equipment

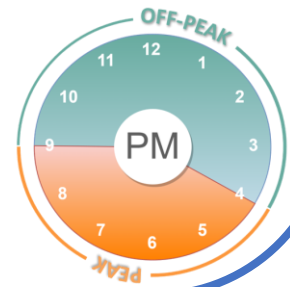
- Equipment Upgrades
- New Equipment
- New Substation or Circuit
- Load Transfers
- Phase Balancing
- Settings Changes



Nontraditional Solutions

Address grid needs through energy programs

- Accelerating solar adoption
- Accelerating energy efficiency improvements
- Managing behind the meter devices to lower peak demand:
 - Batteries
 - Smart Thermostats
 - Water Heaters
 - EV Charging Stations
- Collaboration with local accounts/partners



Upper Rogue Study Area

Distribution System

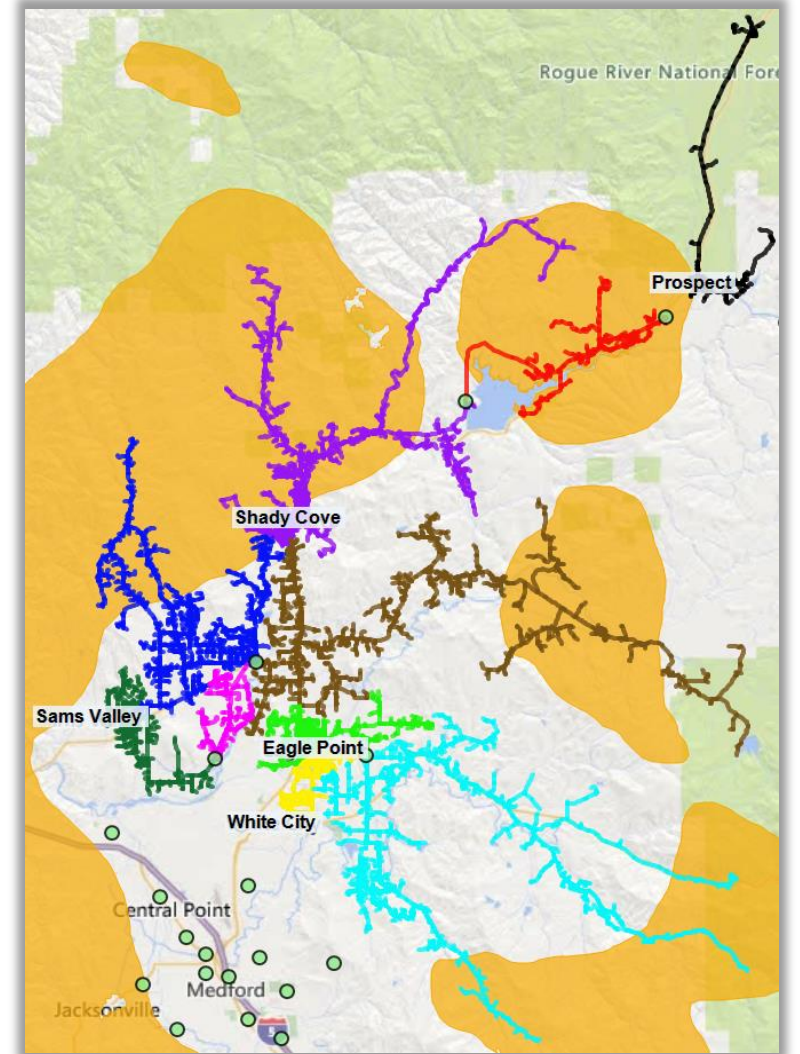
- Distribution substations: 6
- Circuits: 10
- Line miles (sum of pole-to-pole distance): 868

Customers Served

- Total: 13,285
- Residential: 11,856
- Commercial: 1,235
- Irrigation: 171
- Industrial: 11
- Other: 11

Other Characteristics

- 3 of the longest PAC circuits in Oregon
- 6 circuits in Fire High Consequence Areas (FHCA)



Prineville Study Area

Distribution System

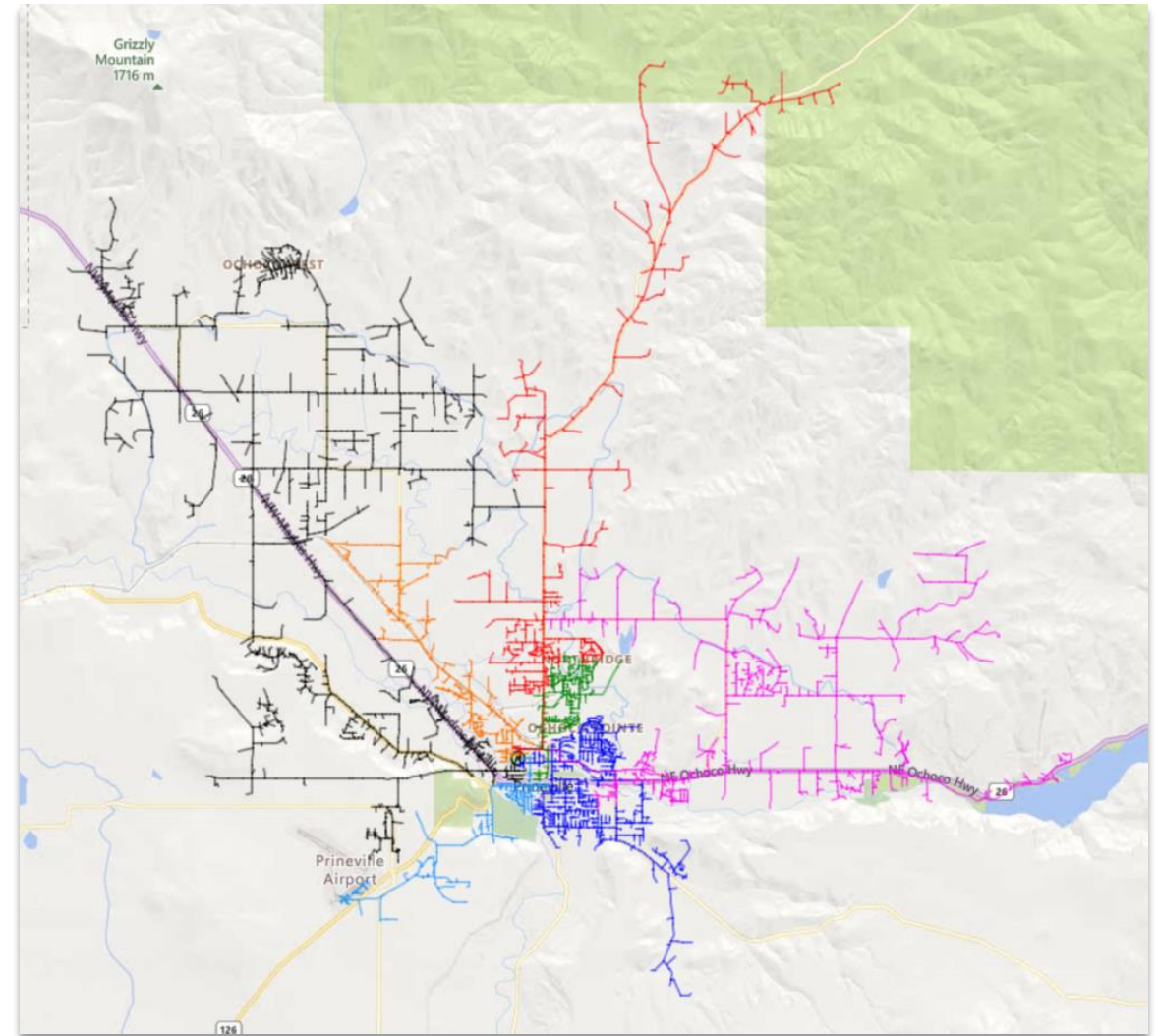
- Circuits: 7
- Line miles: 347 (sum of pole-to-pole distance)

Customers

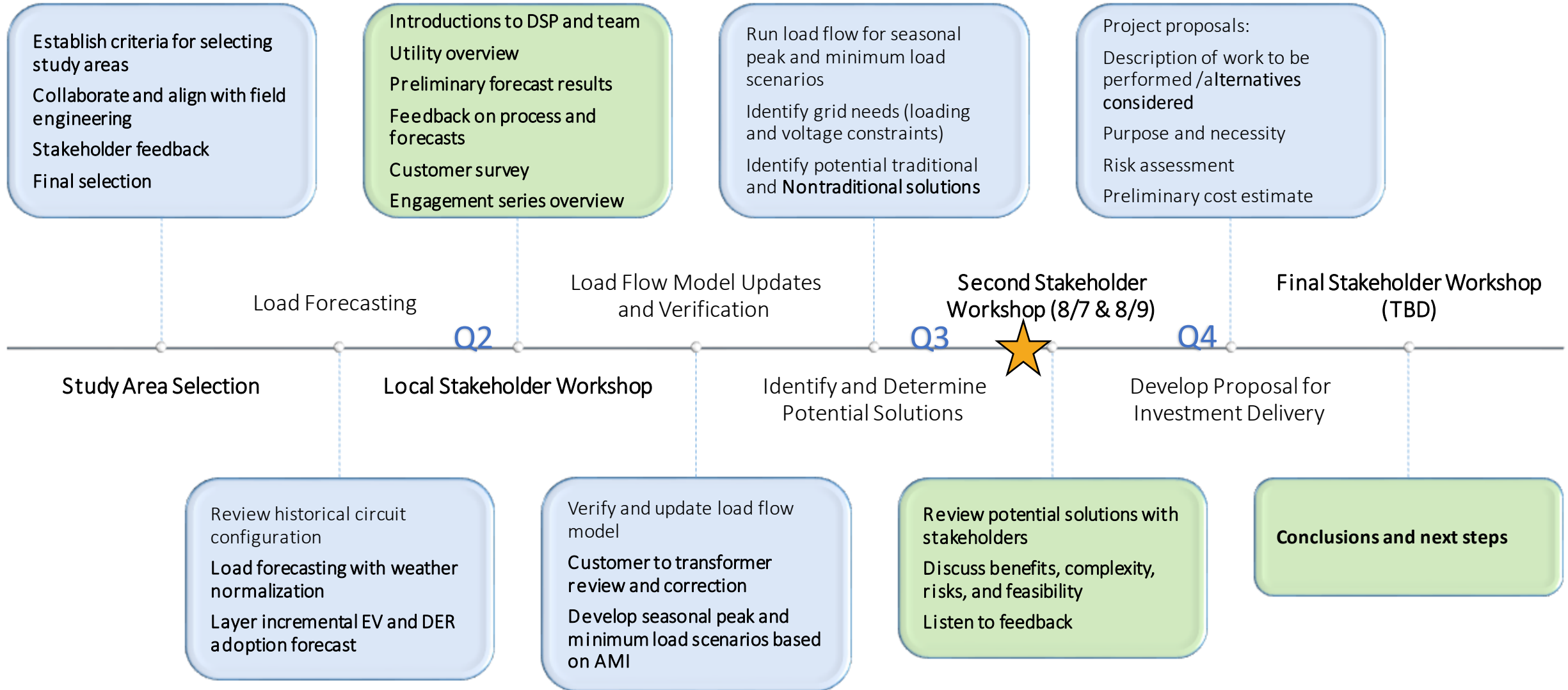
- Residential: 7,490
- Commercial: 1,199
- Irrigation: 387
- Industrial: 37

Other Characteristics

- Limited SCADA history
- New substation transformer by Fall 2023
- Large datacenters served by transmission
- Higher loads in winter, but equipment closer to capacity in summer



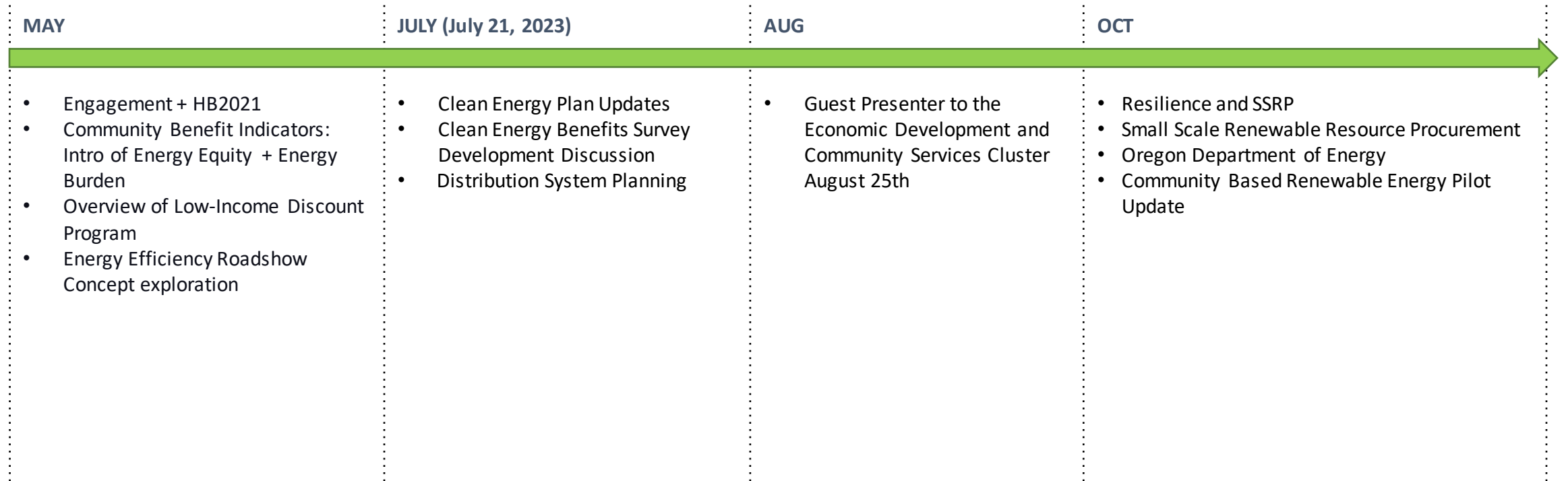
2023 Study Process and Community Engagement



Next Steps

Final Thoughts...?

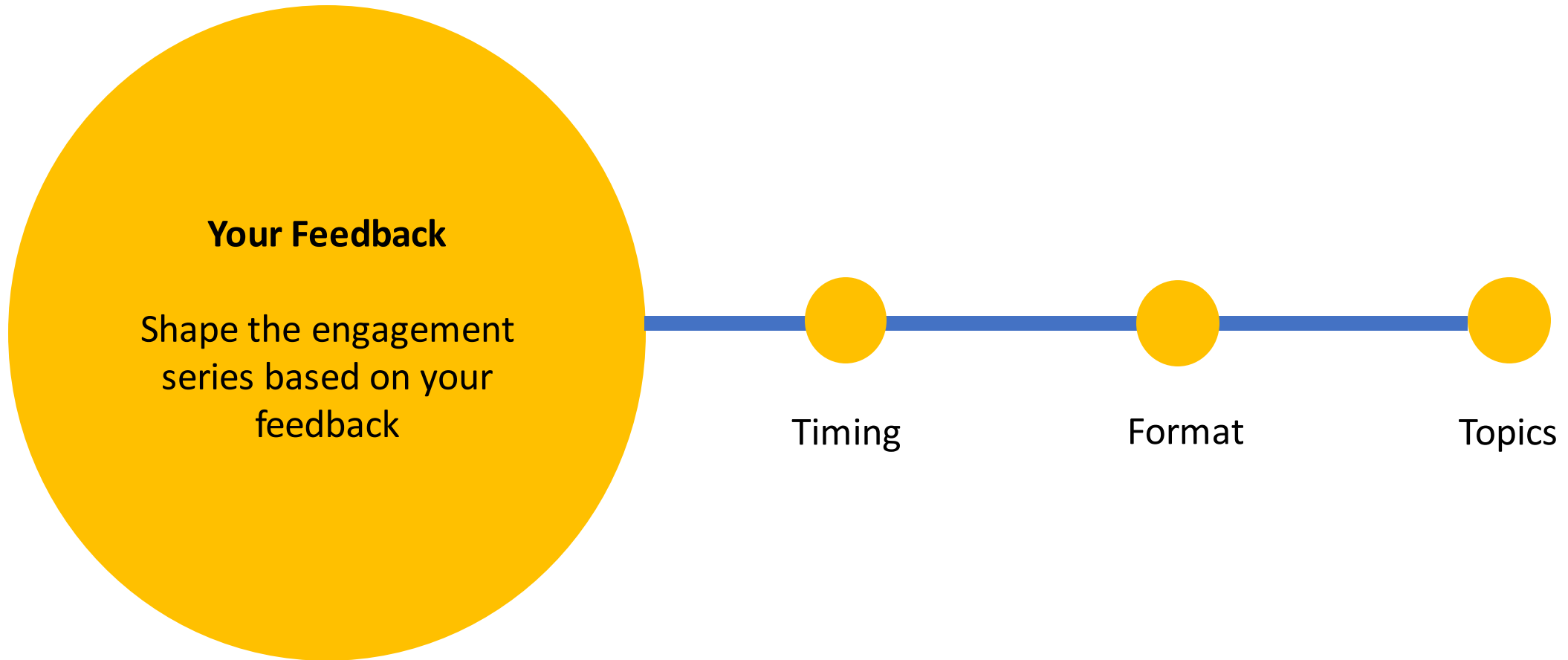
Proposed Upcoming Clean Energy Series Topics and Meetings




PacifiCorp Stakeholder Engagement

Oregon Tribal Nations Engagement Series Meeting	7/21/2023	9-11am PST	Oregon Tribal Nations Engagement Series Meeting July 2023
Clean Energy Plan Engagement Series	8/25/2023	1-4 pm PST	Clean Energy Plan Engagement Series
Oregon Community Benefits + Impacts Advisory Group	07/20/2023	1-4 pm PST	Oregon Community Benefits and Impacts Advisory Group

Next Steps



Email comments to: 
TribalRelations@PacifiCorp.com

For more information:
[Oregon Clean Energy Plan Updated
Engagement Strategy](#)

**Clean Energy Plan Engagement Series for
Oregon Tribal Nations - 2023 Meeting**

[Join Zoom Meeting](#)





Thank You!

