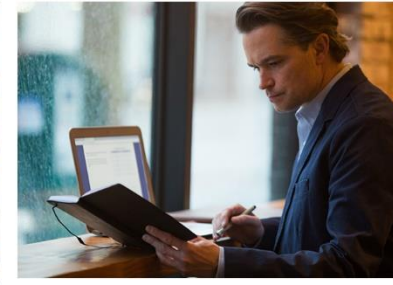


Clean Energy Implementation Plan Engagement Series

August 6, 2024



Clean Energy Implementation Plan Engagement Series

This meeting will be recorded

August 6, 2024, 9:00 a.m. - 12:00 p.m. PT

For a Better Meeting Experience



Spanish or ASL?

- Navigate to "Interpretation" at the bottom of Zoom
- Select "ASL" under Watch or "Spanish" under Audio
- If the interpretation icon is missing, try the "More" icon



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

E Source Facilitation Team



Jeffrey Daigle
E Source Facilitator



Morgan Westberry
E Source Facilitator



Zanya Morgan
E Source Facilitator

Objectives & Agenda

1. Review 2024 CEIP
Progress Report interim targets.
2. Highlight Customer Benefit
Indicator metrics, utility actions, and incremental costs.
3. Communicate Vulnerable Population
workshop and Integrated Resource
Planning updates.

Agenda

TIMING	TOPIC
9:00am	Purpose & Objectives
9:10am	Clean Energy Implementation Plan (CEIP) Updates: <ul style="list-style-type: none">• Progress Report Overview & Highlights• Biennial CEIP Settlement Update• 2025 CEIP Planning
10:20am	Break
10:30am	Integrated Resource Planning & Vulnerable Populations Workshop Updates
10:45am	Distribution System Planning Workshop
11:15am	Conclusion & Next Steps
11:30am	Public Comment

Presenters

CEIP & Regulation Updates



Matthew McVee
VP Regulatory Policy
and Operations



Rohini Ghosh
Director, Clean
Energy Planning

Progress Report Overview & Highlights



Nancy Goddard
Sr. Program
Manager



Jay Olson
Sr. Program
Manager

Distribution System Planning Workshop

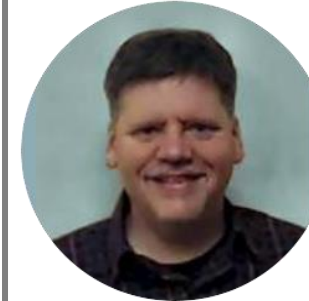


Ian Hoogendam
Distribution System
Planning Manager



Shauna Thomas
T&D Program
Specialist

Updates



Randy Baker
Director
of Resource
Planning



Lee Elder
Load Forecasting
Manager, Load &
Revenue Forecasting

Clean Energy Implementation Plan



Biennial Clean Energy Implementation Plan Updates

Biennial CEIP Updates

Where we've been:

- November 1, 2023, PacifiCorp filed the Biennial Clean Energy Implementation Plan (CEIP) Update
- January 11, 2024, Commission Staff and other interested parties filed comments, recommending the approval of the Biennial Update subject to conditions;
- PacifiCorp testimony: June 17, 2024
- Second settlement conference (parties only): July 11, 2024

Procedural Schedule for Adjudication:

- Staff, Public Counsel and Intervenor Response Testimony and Exhibits: August 21, 2024
- Rebuttal Testimony Deadline: September
- Public Comment Hearing: October 10, 2024, at 6pm

The Washington Utilities and Transportation Commission (WUTC) has the authority to approve the Biennial CEIP Update, with or without conditions, or reject the CEIP. You have the opportunity to comment on this filing as described below.

PacifiCorp customers can comment to the UTC in several ways including:

- Calling in via telephone
- Joining via Zoom

Public participation is a critical part of the UTC's process. The UTC considers the impacts on customers and their families as they make a decision.

Public Comment Hearing

October 10, 2024 | 6:00 pm

Zoom: <https://utc-wa.gov.zoom.us/j/87699859487?pwd=dACi2r9YziBZI9THkaeNpaAEnxcaOK.1>

Meeting Code: 876 9985 9487	Password: 762251
--------------------------------	---------------------

Call-In Number: (253) 215-8782

2024 CEIP Progress Report

2024 CEIP Progress Report

- PacifiCorp filed its 2024 annual Clean Energy Implementation Plan progress report on July 1, 2024, which includes:
 - Actuals reported for 2023
 - A detailed summary regarding PacifiCorp's progress towards its targets and specific actions as set out by its inaugural CEIP
- The annual progress report includes information on:
 - Conservation achievement
 - Demand response program achievement
 - Renewable energy credits (REC), all resource generation, contracts and market purchases and sales
 - Washington retail sales
 - Additional information as required by the settlement of the 2021 Revised CEIP

PacifiCorp's 2024 CEIP Progress Report:

https://www.pacificorp.com/content/dam/pcorp/documents/en/pacificorp/energy/ceip/210829_PAC_CEIP_2024_Progress_Rpt_7-1-24_fnl.pdf

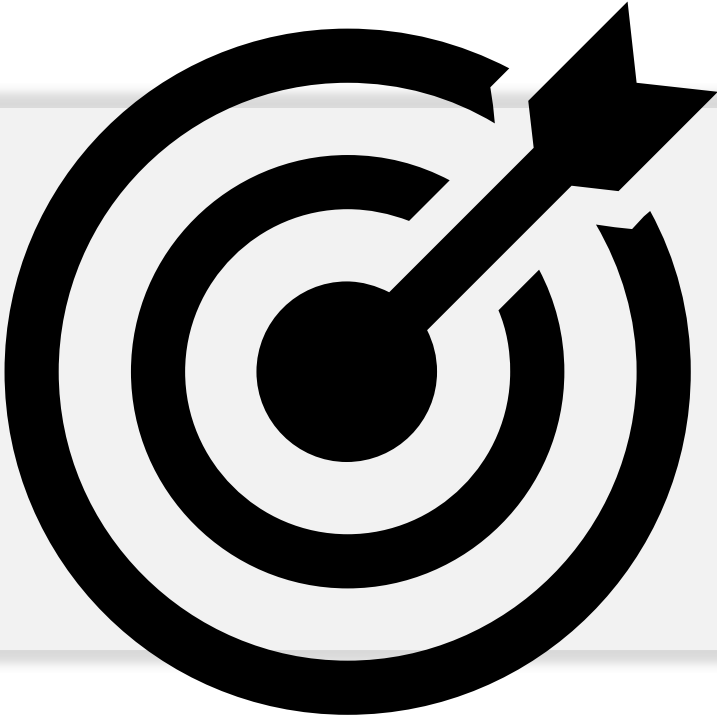
Interim Targets

Table 1 – PacifiCorp’s Annual CEIP Report Summary

PacifiCorp CEIP Interim Goal for 2023	31%	
	MWh	% of Retail Sales
Washington Retail Sales	3,850,048	
Washington PURPA Qualifying Facilities (QFs)	5,224	
Retail Sales (QF Adjusted)	3,844,824	
Washington Allocated Renewable Energy and RECs	928,528	24.2%
Washington Allocated BPA Renewable Energy	16,048	0.4%
Washington Allocated BPA Non-Emitting Energy	2,325	0.1%
Total electricity supplied by non-emitting and renewable resources in 2023 (excluding WA-allocated system RECs)	946,601	24.6%
WA-Allocated PacifiCorp System RECs – Reported in RPS	84,600	2.2%
WA-Allocated PacifiCorp System RECs ³	152,619	4.0%
Total electricity supplied by non-emitting and renewable resources in 2023⁴	1,184,120	30.8%

Customer Benefit Indicators (CBIs), Utility Actions, & Metrics

Today's Approach to Sharing CBIs



- CBI | Overview & Updates
- CBI | Data & Metrics
- CBI | Utility Actions & Incremental Costs

Washington Customer Benefit Indicators (CBIs)

	Customer Benefit Indicators
1	Increase culturally and linguistically responsive outreach and program communication including increased availability of translation services for all PacifiCorp Programs, including credit, collection, and payment
2	Increase community-focused efforts and investments
3	Increase participation in company energy and efficiency programs and billing assistance programs
4	Increase efficiency of housing stock and small businesses, including low-income housing
5	Increase renewable energy resources and reduce emissions
6	Decrease households experiencing high energy burden
7	Improve indoor air quality
8	Reduce frequency and duration of energy outages
9	Reduce residential customer disconnections
10	Increase Named Community clean energy

Overview & Updates:

- Pursuant to the 2021 Revised CEIP Settlement Conditions, new additions to CBIs are reflected in **blue** text in the filed CEIP Progress Report
 - CBIs – One new; One expanded
 - Metrics – twelve new measures; four expanded
 - New Metrics address new data that will be incorporated
 - **Example: Number of residential rebates provided to customers residing in rental units**
 - Expanded Metrics to further define, include other representations of data (percentages, averages, etc.)
 - **Example: Number and percentage of households/businesses who participate/enroll in demand response, load management, and behavioral programs**



Culturally and Linguistically Responsive Communications

Customer Benefit Indicator | Overview & Updates

#	CBI	Benefit Categories	Metric(s)
1	Increase culturally and linguistically responsive outreach and program communication including increased availability of translation services for all PacifiCorp Programs, including credit, collection, and payment	<ul style="list-style-type: none">▪ Reduction of burdens▪ Non-energy benefit	<ul style="list-style-type: none">a. Number of topics addressed in outreach in non-English languagesb. Number of impressions from non-English outreachc. Percentage of responses to surveys in Spanishd. Number of programs for which PacifiCorp provides translation services or translated materiale. Number of languages PacifiCorp uses for translated material

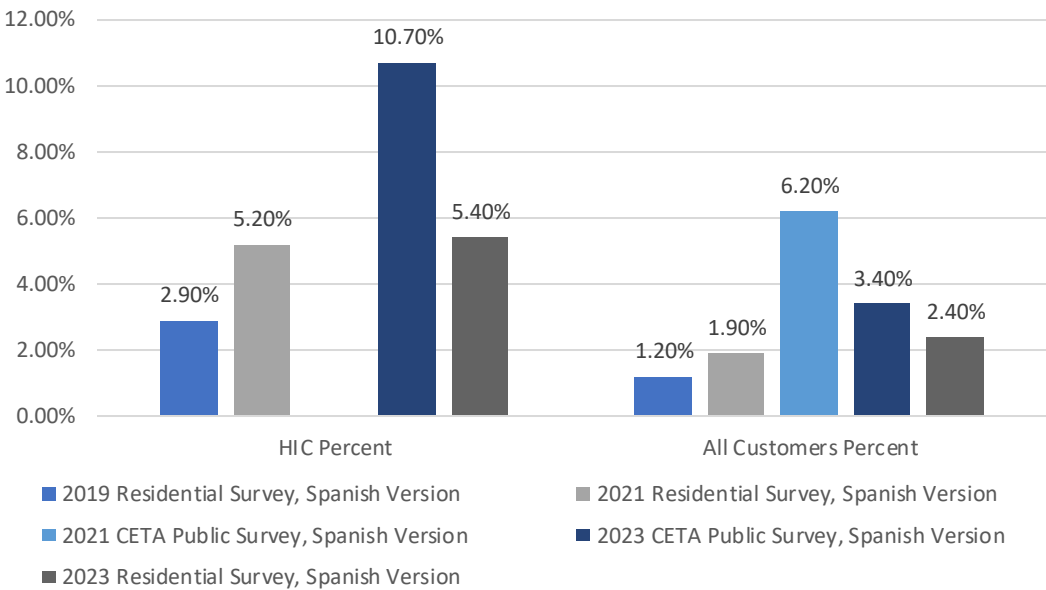
Pacific Power is committed to proactively increasing access and better communicating with the 30.7% of Spanish speaking households within its' Washington service area.

Expansion of Communication Channels for Spanish-Language Outreach

Program or Topic	2020	2022	2023
Billing Options / Customer Service	4	1	2
Energy Assistance (LIBA)	5	10	5
Wattsmart Residential	3	9	11
Wattsmart Business		9	9
Energy Efficiency Education	1	1	1
Wildfire Safety/Resilience	1	3	2
Safety/Preparedness	1	3	4
Planning for the Future (Brand Assurance)	2	4	3
Energy Resource Center	0	1	1
Regulatory/CEIP	0	2	6
Total	17	43	44

Culturally & Linguistically Responsive Outreach

Spanish-Language Survey Responses



¹ Baseline Values updated since 2021 draft CEIP to account for WDOH update to EHD in July 2022
² HIC data for the 2021 CEA Public Survey, Spanish version, is unknown

Culturally & Linguistically Responsive Outreach

Program	Number of Languages Used for Translated Materials	Format (e.g. telephone translation, brochure, notice, website)
Billing Options / Customer Service	73	Telephone
Billing Options / Customer Service	1	Website, bill message
Energy Assistance (LIBA)	1	Advertising, social media, brochures
Wattsmart Residential	1	Advertising, bill inserts, emails, social media, brochures
Wattsmart Business	1	Advertising, emails, direct mail, brochures
Energy Efficiency Education	1	Brochures
Wildfire Safety/Resilience	9	Advertising, website, email, brochures
Safety/Preparedness	1	Social media, website, email
Planning for the Future	1	Advertising
Energy Resource Center	1	Website, brochures
Regulatory/CEIP	1	Website, meetings, meeting materials
Total	91	

PacifiCorp has a dedicated call center team of Spanish-speaking representatives.

For customers who speak other languages, the company's call center can assist with questions in 73 different languages

Customer Benefit Indicator | Utility Actions

2023 Annual Conservation Plan:

- Continue to support programs with an increased equity focus using effective communication strategies to reach Named Communities.
- Continue to increase culturally and linguistically responsive outreach and marketing to increase awareness of energy and conservation programs
- Continue to expand in-language services across written, spoken, and visual services
 - As appropriate, include Spanish versions of collateral and/or posters at community events that Pacific Power is sponsoring. Have interpreters and translated materials at public meetings.
 - Promote energy efficiency programs on Spanish TV, radio and newspapers with local, trusted messengers, with call to action to the Spanish website and phone number

Activities pursued in 2023:

- Expanded and enhanced outreach to underserved and diverse communities
- Worked with a multicultural marketing agency to develop communications strategies to best reach the Hispanic community
- Developed a multicultural earned media plan, which included:
 - Culturally relevant messaging,
 - Collaborating with local influencers and media partners trusted by the community
 - Engaging communities where they are

Outreach methods:

- Updated Spanish landing page on website
- Radio & Video interviews
- Influencer Facebook posts
- Printed content shared with community partners

Exemplifying Utility Actions

Residential campaign began with TV on May 9th, followed by influencer posts, radio and wrapped up with print on June 30th



May 9th → June 30th



Total Likes – 1,038



Total Comments – 399

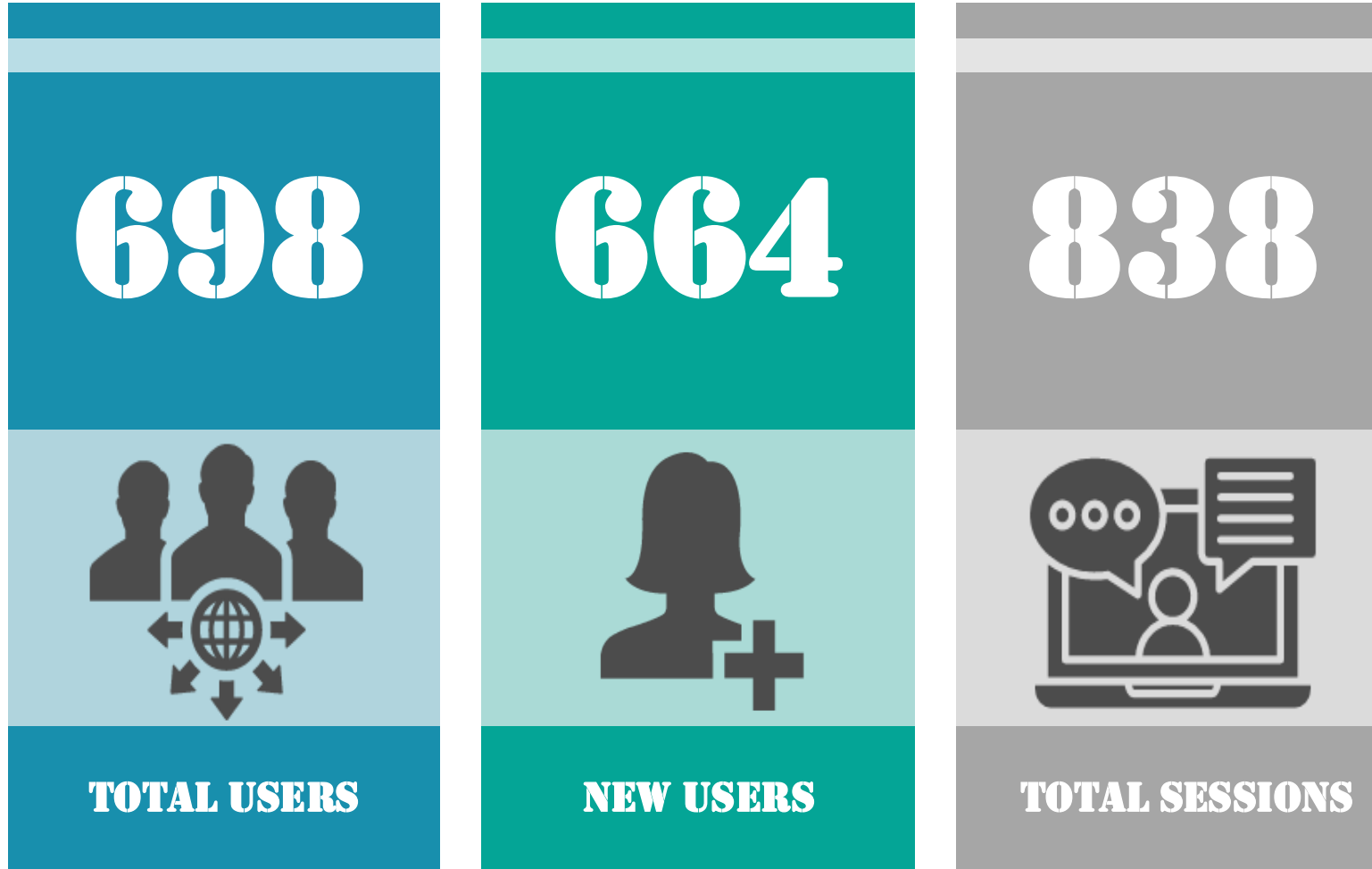


Total Shares – 186



Additionally, **100%** of the smart thermostat coupons that were provided to the radio station were picked up by customers

Exemplifying Utility Actions



Google Analytics results indicate a nearly **2,000%** increase in uptake in users from the inception of the Wattsmart Residential Multicultural Campaign. Demonstrating the need, and impact, to fostering a multicultural lens



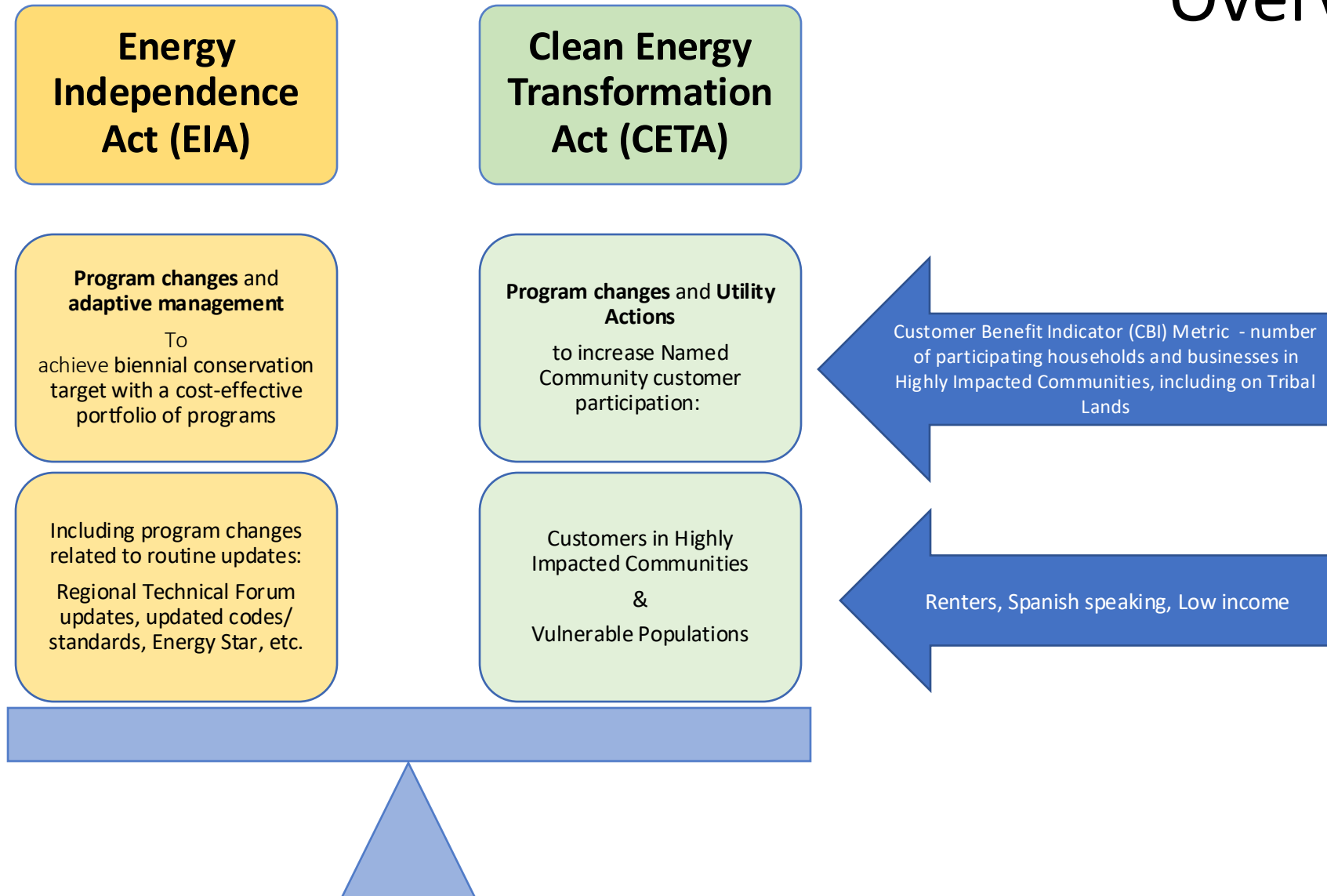
Participation in Company Efficiency Programs and Efficiency of Housing Stock and Small Businesses

Customer Benefit Indicators | Overview & Updates

#	CBI	Benefit Categories	Metric(s)
3	Increase participation in company energy and efficiency programs and billing assistance programs	<ul style="list-style-type: none"> Cost reduction Reduction of burden Non-energy benefit Energy benefit 	<ul style="list-style-type: none"> a. Number and percentage of households/businesses, including Named Communities, who participate in company energy/efficiency program b. Dollar value of energy/ efficiency expenditures c. Number and percentage of households that participate in billing assistance programs d. Number and percentage of households/businesses who participate/enroll in demand response, load management, and behavioral program e. Dollar value of demand response, load management, and behavioral programs expenditures f. Number of residential appliances and equipment rebates provided to Named Community customers (where known) g. Number of residential rebates provided to customers residing in rental units h. Investment and/or energy efficiency savings in rental residential housing stock

Customer Benefit Indicators | Overview & Updates

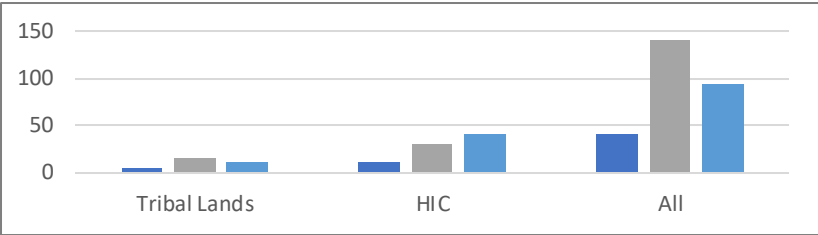
#	CBI	Benefit Categories	Metric(s)
4	Increase efficiency of housing stock and small businesses, including low income housing	<ul style="list-style-type: none">▪ Energy benefit	<ul style="list-style-type: none">a. Number of households and small businesses that participate in company energy/efficiency programsb. Dollar value of energy efficiency expenditures



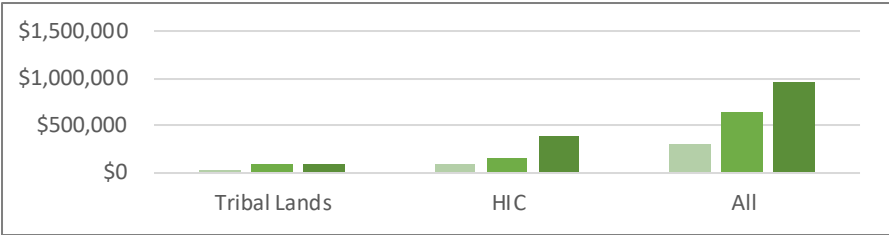
Energy & Efficiency Program Participation/ Efficiency of Buildings

Low Income Weatherization

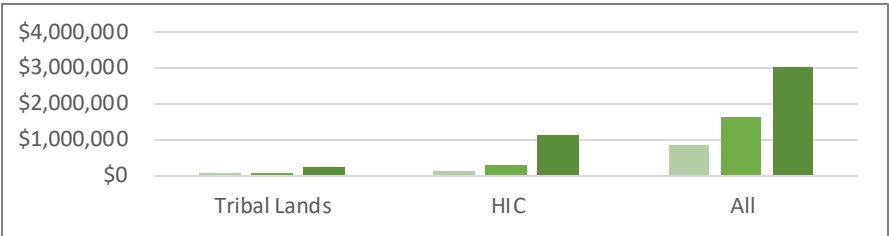
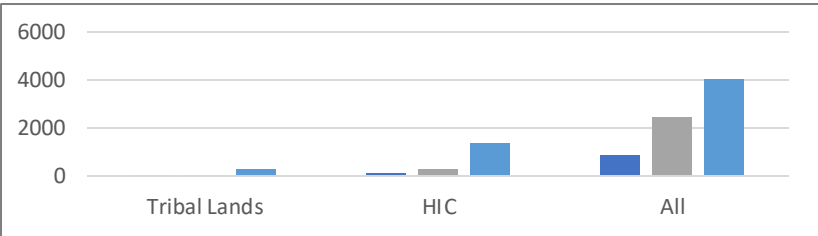
Participants



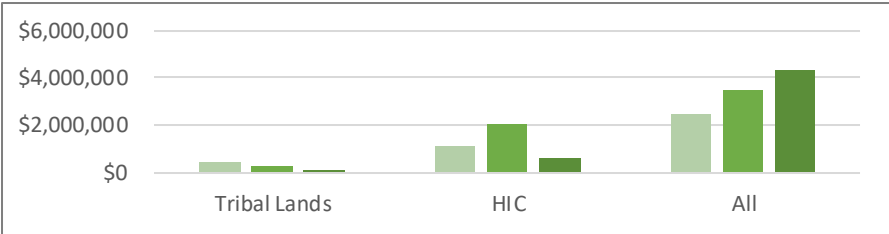
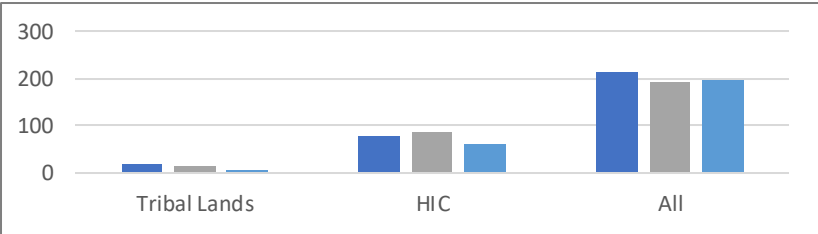
Expenditures



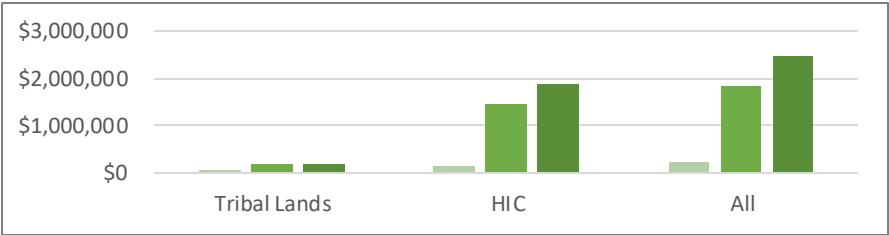
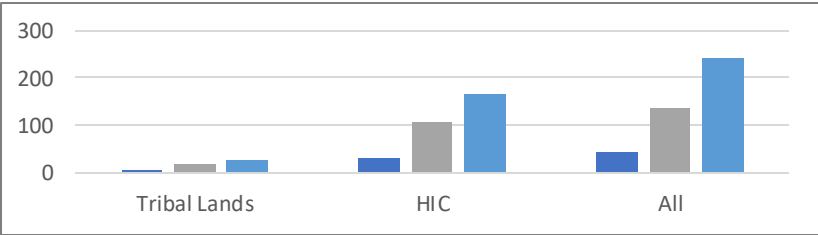
Home Energy Savings



Wattsmart Business



Wattsmart Small Business



Energy & Efficiency Program Participation/Efficiency of Buildings

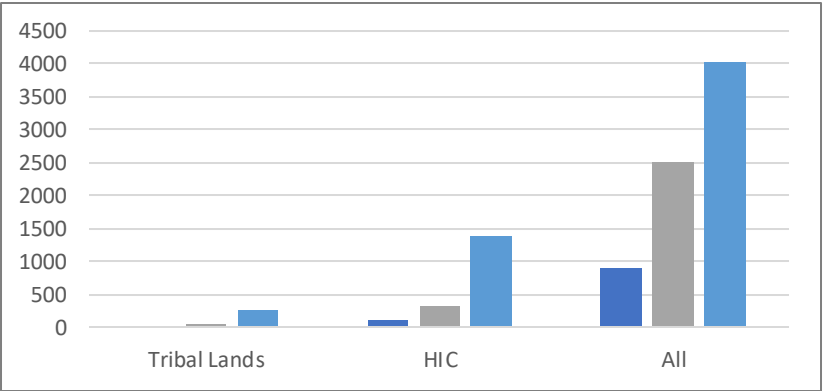
Home Energy Savings

Estimated CETA Incremental Cost:	\$430,000
----------------------------------	-----------

- **Utility Actions:**
 - Higher incentives for HIC heat pumps
 - HIC focus for direct-install duct sealing

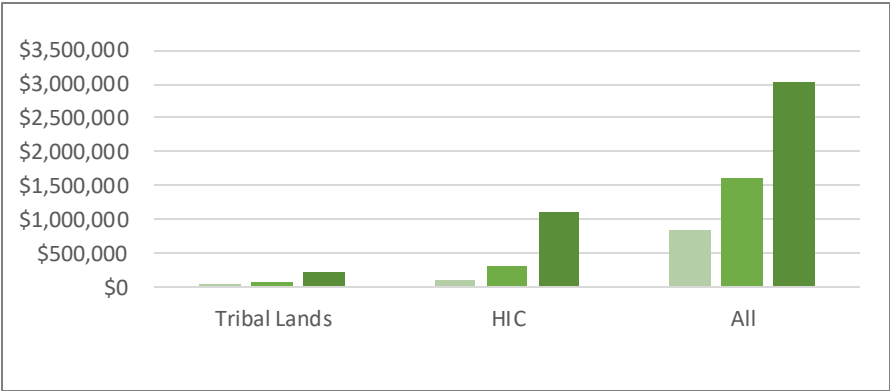
• CBI Metric:		2020	2022	2023
	HIC households served by year	131	318	1,381
	Tribal households served by year	35	48	280

Participants



Home Energy Savings

Expenditures



Energy & Efficiency Program Participation/ Efficiency of Buildings

Wattsmart Business

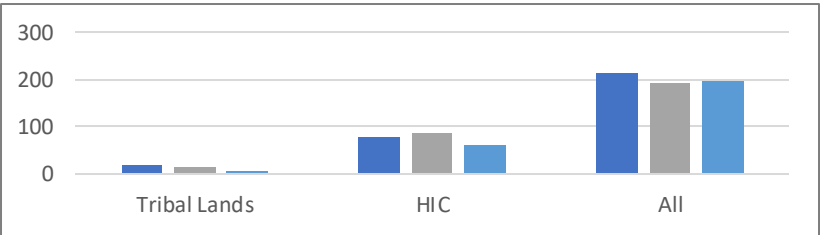
Estimated CETA Incremental Cost:	\$720,000
----------------------------------	-----------

**Incremental cost compared to regular small business incentives*

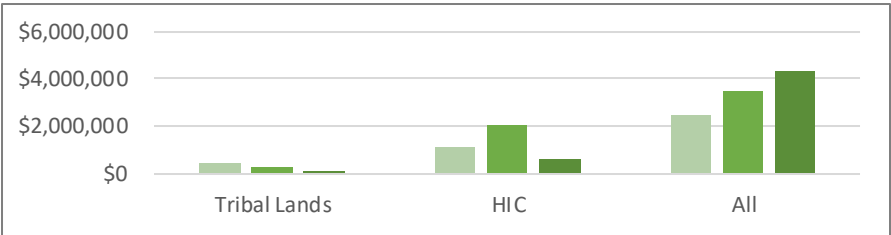
- **Utility Action:**
 - Higher incentives for small businesses in Highly Impacted Communities (HIC), very small businesses

• CBI Metric:		2020	2023
	Number of small businesses in HIC participating	31	166

Participants

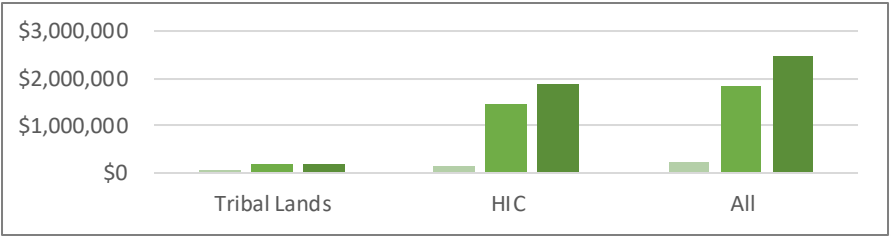
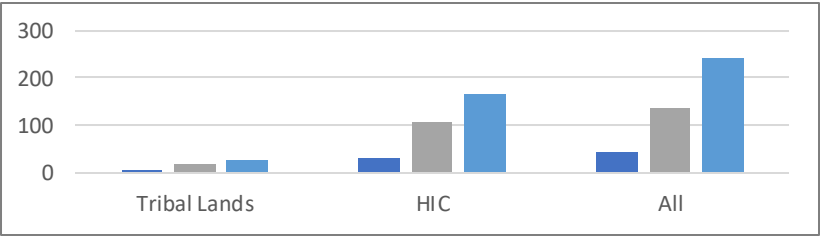


Expenditures



**Wattsmart
Business**

**Wattsmart
Small Business**



Energy & Efficiency Program Participation / Efficiency of Buildings

Low Income Weatherization

- **Utility Action:**
 - Continue to allow reimbursement for repairs up to 30 percent of the annual reimbursement on energy efficient measures received (increased from 15% in 2022)
 - Continue to allow installation of electric heat to replace permanently installed electric heat, space heaters, or any fuel source except natural gas with adequate combustion are ad determined by the Agency. This is designed to promote the installation of electric heat and minimize use of wood heat, solid fuels or natural draft equipment in specific applications where combustion safety (and indoor air quality) cannot be maintained.

• CBI Metric: Low Income Housholds (Vulnerable Population)	2022	2023
	0	0
	2024	2025
Incremental Cost of CETA utility action - Low Income Weatherization - additional funding for repairs and electric heat installations	\$ 65,000	\$ 65,000

Participation Tracking CEIP Utility Actions

All tracking-related utility actions continue from 2022-2023 plan; **changes noted with a “star”**

Low Income Weatherization

- CBI metric:
 - Participants located in a Highly Impacted Community, including Tribal lands
- Vulnerable Population:
 - Language - Participants whose primary language is other than English
 - ★ Ask question for the **household** starting in 2024
 - Renters – participants where the occupant is a renter (tenant)
 - Low income – all participants
- Participants living in a manufactured home

Home Energy Savings

- CBI metric:
 - Participants located in a Highly Impacted Community, including Tribal lands
- Vulnerable Population:
 - Language - Participants whose primary language is other than English
 - ★ Ask question for the **household** starting in 2024
 - Renters
 - ★ Participants where the **home is a rental**
 - Participants living in a multi-family unit
- Participants living in a manufactured home

Wattsmart Business

- CBI metric:
 - Participants located in a Highly Impacted Community, including Tribal lands
- Language - Participants whose primary language is other than English
 - ★ Changing to ask primary language spoken for the **business** (as opposed to the contact person completing the application)
- Small Business - Participants who are smaller businesses
 - (e.g., account associated with project receives electric service on Schedule 24)

Demand Response Programs

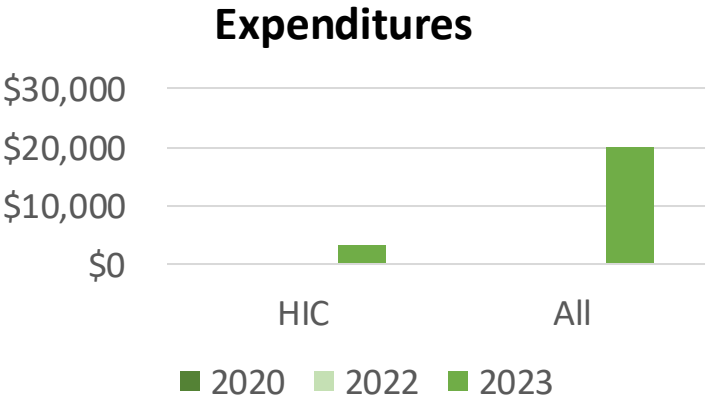
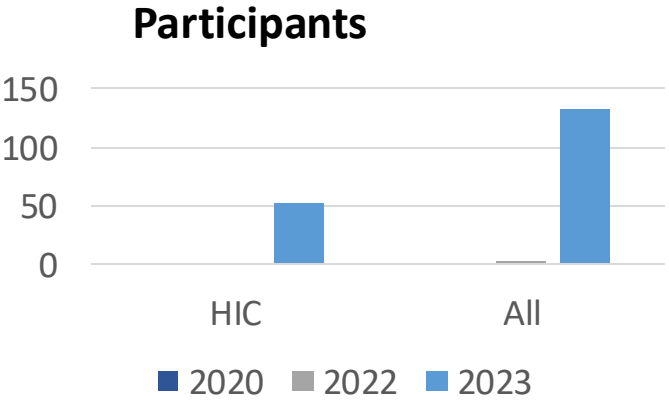
Demand Response

- **Utility Action:**
 - Launch a portfolio of demand response programs including: **Irrigation Load Control, Commercial/Industrial Demand Response**, Residential Demand Response, Battery Demand Response and EV Managed Charging

- **CBI Metric:** Households / Businesses Participating in Demand Response

	2020	2022	2023
All	0	2	133
HIC	0	0	52

Demand Response Programs



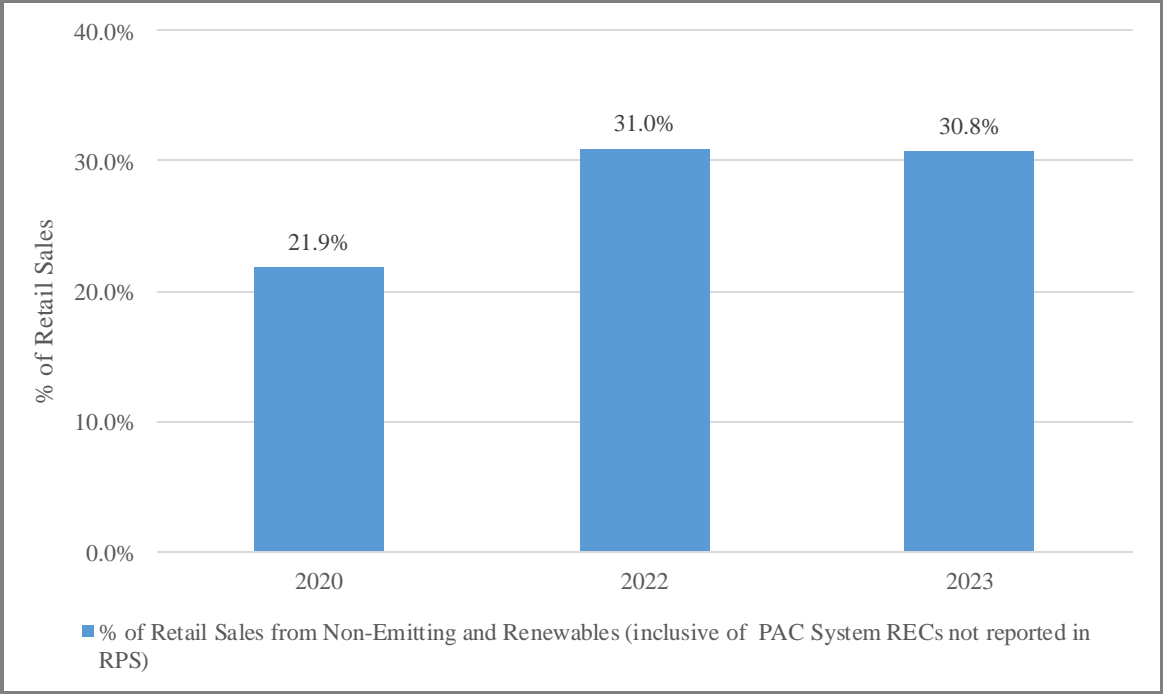


Renewable Energy & Emissions

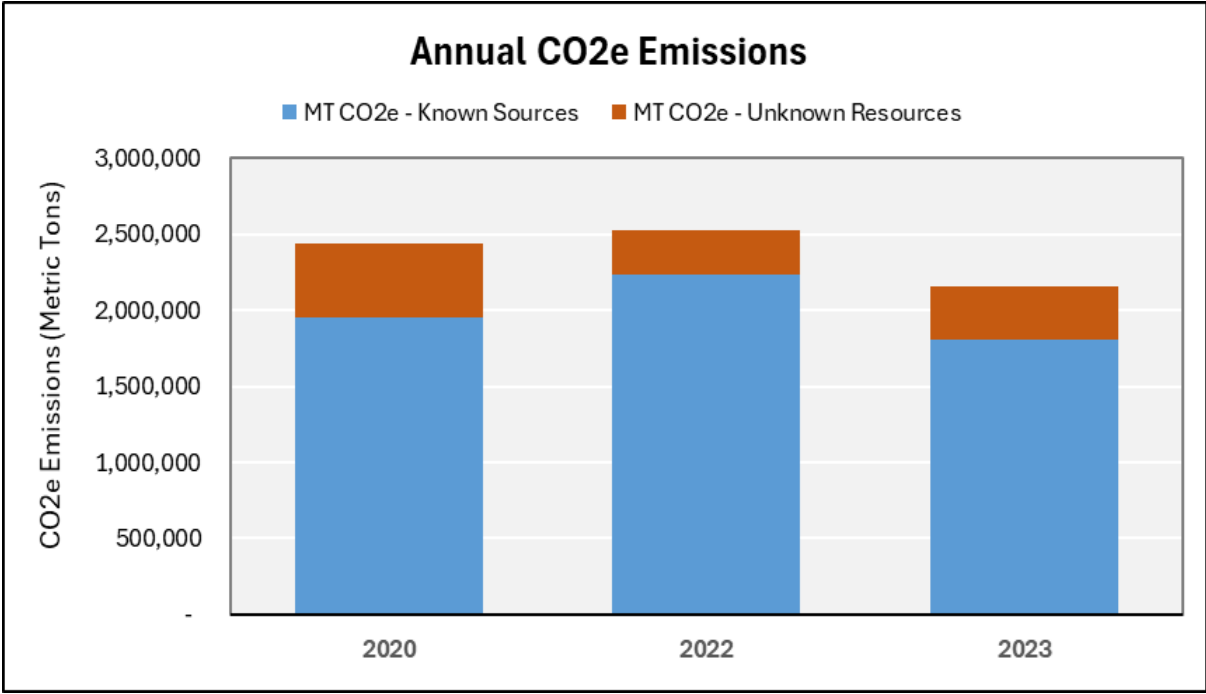
Customer Benefit Indicators | Overview & Updates

#	CBI	Benefit Categories	Metric(s)
5	Increase renewable energy resources and reduce emissions	<ul style="list-style-type: none">Environmental	<ul style="list-style-type: none">a. Amount of renewables/non-emitting resources serving Washingtonb. Amount of Washington allocated greenhouse gas emission from Washington allocated resources

Percentage Retail Sales Served by Renewable & Non-Emitting Energy Resources



Washington Allocated Greenhouse Gas Emissions



Customer Benefit Indicator | Utility Actions

- Procurement of roughly 1,900 MW of renewable and storage capacity to come online through the end of 2026:

Name	Primary Fuel	Capacity (MW)	Commercial Operation Date (COD)
Cedar Creek Wind, LLC (PPA)	Wind	151.8	March 21, 2024
Cedar Springs Wind IV, LLC (PPA)	Wind	350.4	December 31, 2024
Boswell Springs Wind (PPA)	Wind	320	December 31, 2024
Anticline Wind, LLC (PPA)	Wind	100.5	December 31, 2024
Rock Creek I Wind (Owned)	Wind	190	December 31, 2024
Rock Creek II Wind (Owned)	Wind	400	September 1, 2025
Green River Solar I / II (PPA)	Solar + Battery Storage Capability	400	May 31, 2026

A person with their back to the camera, wearing a grey long-sleeved shirt over a blue t-shirt and dark shorts, stands in a field of tall grass. Their arms are outstretched towards a bright, cloudy sky. In the distance, a line of wind turbines is visible against the horizon. A red graphic element is in the top right corner.

2025 CEIP

2025 CEIP Engagement Approach

Engagement Opportunities

PacifiCorp proposes 3-4 CEIP Engagement Series for 2025 to socialize the CEIP and IRP (with CETA requirements) and discuss work towards the 2025 settlement conditions

Public Comment

There will be public comment opportunities both during engagements and on the Draft CEIP Filing

CEIP Filing

The 2025 Clean Energy Implementation Plan will be filed October 1, 2025

Ongoing Improvements for 2025 CEIP

Additional settlement conditions from 2021 Revised CEIP Settlement, for the 2025 CEIP:

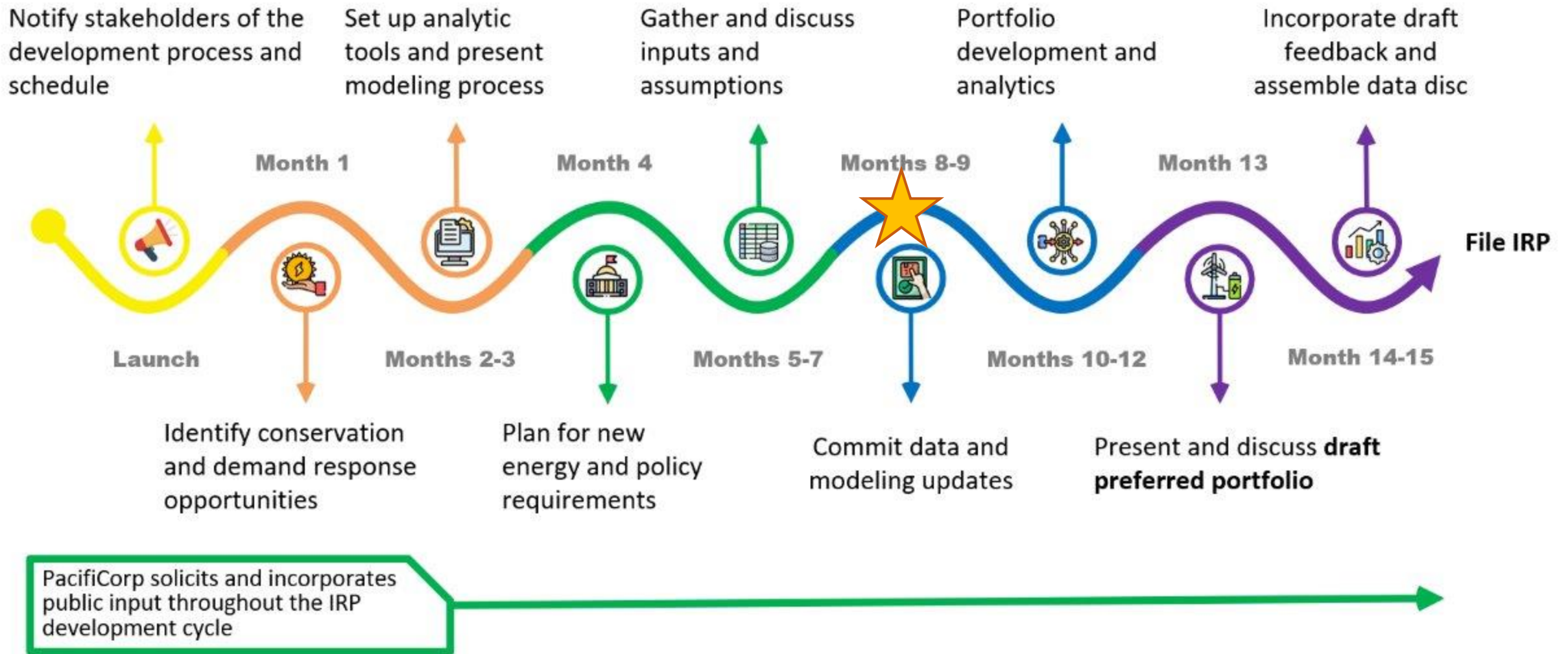
- PacifiCorp will develop a transparent methodology for CBIs and metrics that are appropriate for future resource planning and acquisition decisions. This will include changes to its weighting and scoring process for future resource acquisition processes.
- PacifiCorp will improve data transparency specific to modeling inputs and outputs (PLEXOS modeling software and workpapers) and opportunities for all interested parties to sign non-disclosure agreements and review confidential information
- PacifiCorp will conduct distribution system planning (DSP) for Washington
- PacifiCorp will file a draft CEIP based on a timeline agreed to by the Company and Interested Parties
- PacifiCorp will advance application of Non-Energy Impacts (NEIs) and Customer Benefit Indicators (CBIs) to all resource and program selections and will consult with advisory groups on the appropriate methodology
- PacifiCorp will include applicable provisions of the Inflation Reduction Act (IRA) plus other program impacts, if warranted
- PacifiCorp will include details regarding the Company's marketing plans with regards its community outreach and engagement
- PacifiCorp will fully engage with all advisory groups and offer at least one joint consultation session to share feedback on the CEIP, CEIP updates, and the consultation process itself.
- Additional miscellaneous conditions related to narrative, transparency, improvements upon planning and procurement process, modeling sensitivities and vulnerable populations

BREAK

A man with a beard and a woman with blonde hair are in a workshop. The man is wearing a blue t-shirt and the woman is wearing a red and black plaid shirt under brown overalls. They are both smiling and looking at a tablet held by the woman. In the background, there are shelves with tools and materials, and two other people are visible near a large open doorway. The scene is brightly lit with natural light from the doorway and overhead fluorescent lights.

Updates

Integrated Resource Plan Updates



Learn more about PacifiCorp's IRP at www.pacificorp.com/irp

Integrated Resource Plan Updates

Key Dates:

- Model assumptions locked down for Draft IRP:
 - September 25, 2024
 - Next opportunity to provide feedback will be January 1, 2025 – March 1, 2025

Next Steps:

- Clean Energy Implementation Plan Engagement Series Meeting 4:
 - October 29, 2024 | 9am – 11am (PST) | [Online via Zoom](#)
 - Expand on outcomes from the 2025 IRP
 - Revisit analysis

<i>2025 IRP Upcoming Meeting Dates and Milestones Calendar Year 2024</i>
Wed-Thurs August 14-15, 2024 – General Public Input Meeting 6
Wed-Thurs September 25-26, 2024 – General Public Input Meeting 7
➤ September 25 – Assumptions locked down for Nov and Dec model runs
<i>Calendar Year 2025</i>
➤ January 1, 2025 - Distribution of the 2025 Draft IRP
Wed-Thurs January 22-23, 2025 – General Public Input Meeting 8
Wed-Thurs February 26-27, 2025 – General Public Input Meeting 9
➤ March 31, 2025 – Filing of the 2025 IRP

Vulnerable Populations Workshop Updates

- Review and improve the Company's approach to identifying and track vulnerable populations
 - Review CEIP vulnerable population approach
 - Discuss and seek input on new geographic vulnerable population designation approach
- Discussion of additional vulnerability factors to consider within geographic designation approach

Vulnerable Populations Workshop II

August 28, 2024

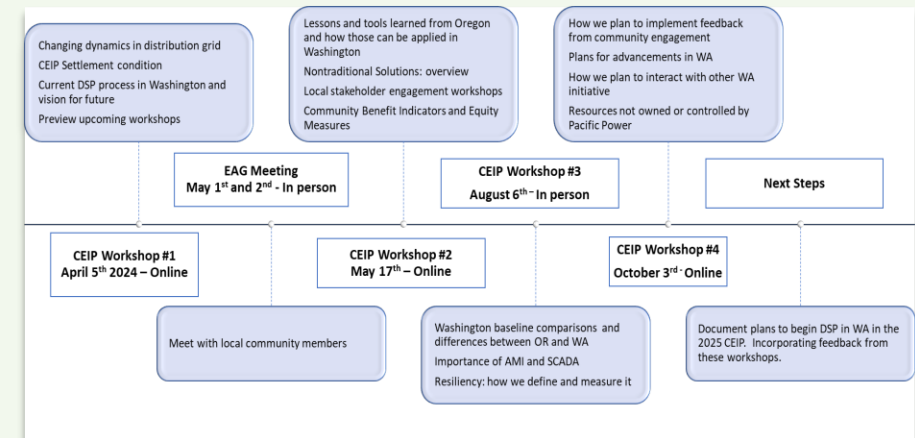
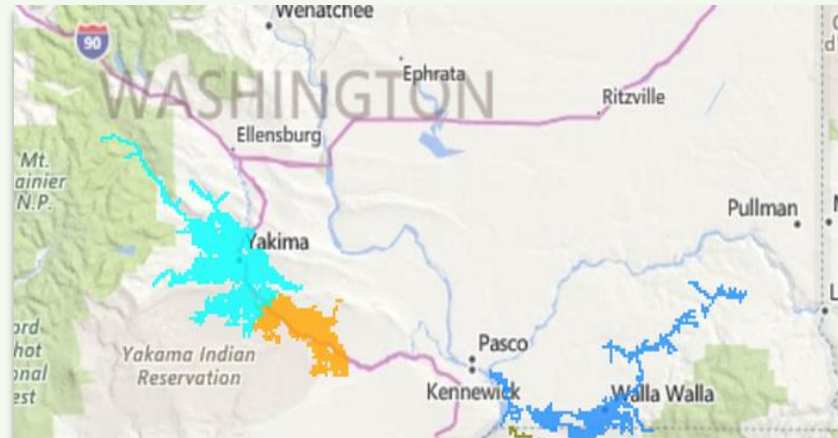
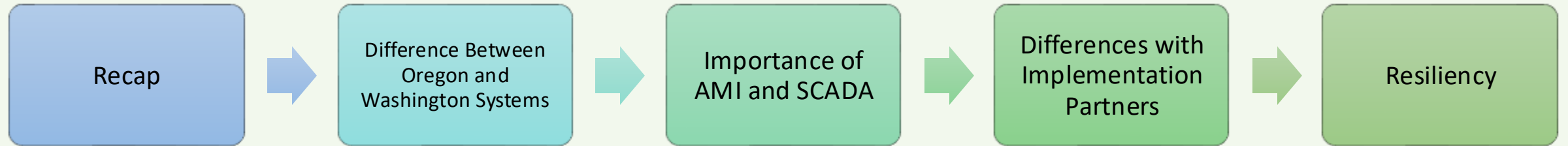
1:00 – 3:00 pm PST

Zoom: <https://esource.zoom.us/j/84451234567>

DSP Workshop



Today's Agenda





DSP | Recap of Last Workshop

Recap of Last Workshop

Advancements to DSP in Oregon

- New technologies and generation on the distribution system
- More measurements
- New energy programs and opportunities for non-wires/nontraditional solutions

Nontraditional solutions

- Development of Solutions
- Screening Process
- Examples of solutions to grid needs

Stakeholder engagement

- Stakeholder and community input
- Transparency in planning

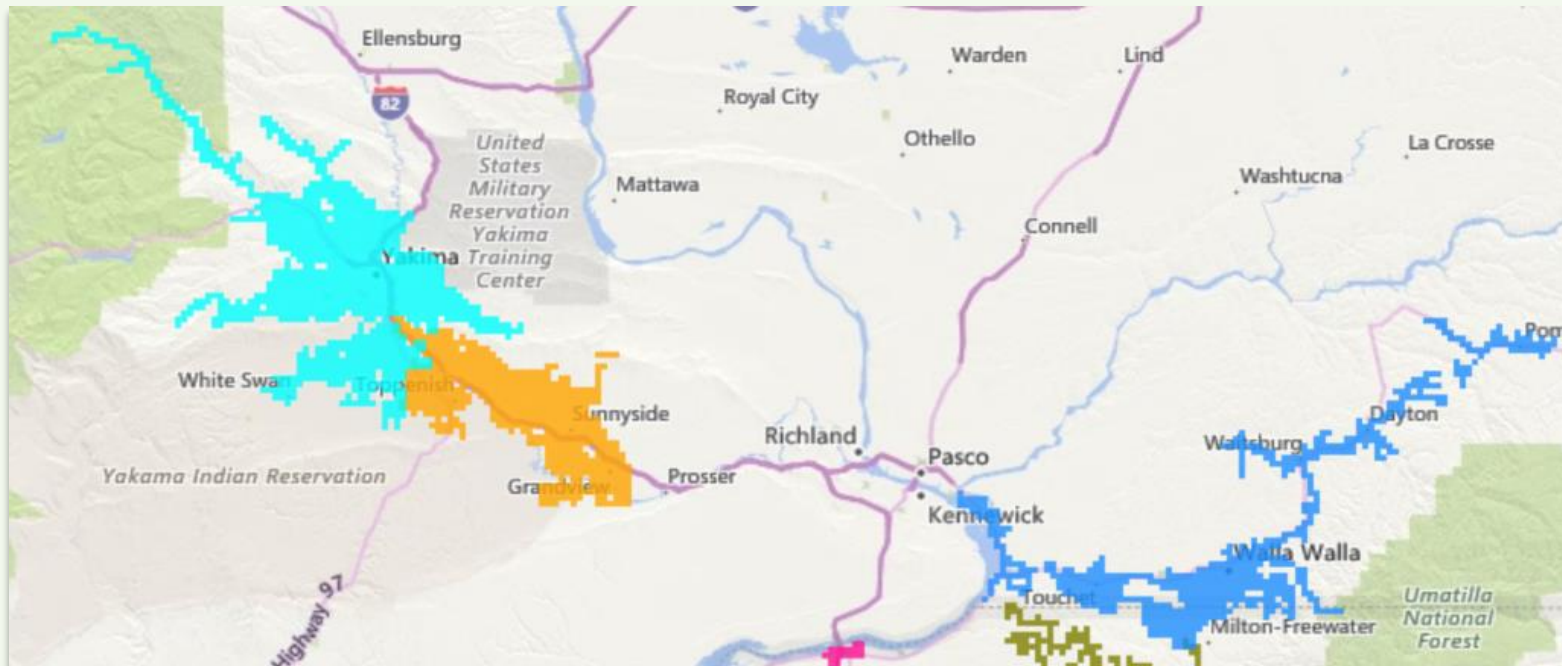
Impacts on Washington CBIs

- Community-focused efforts and investments
- Increase participation in company energy and efficiency programs
- Improve energy efficiency
- Reduce frequency and duration of energy outages



DSP | Differences Between Oregon And Washington Systems

Washington System Overview



Distribution System

- Substations: 33 substations
- Circuits: 140
- Line miles (sum of pole-to-pole distance):
 - Overhead: 3,363
 - Underground: 751

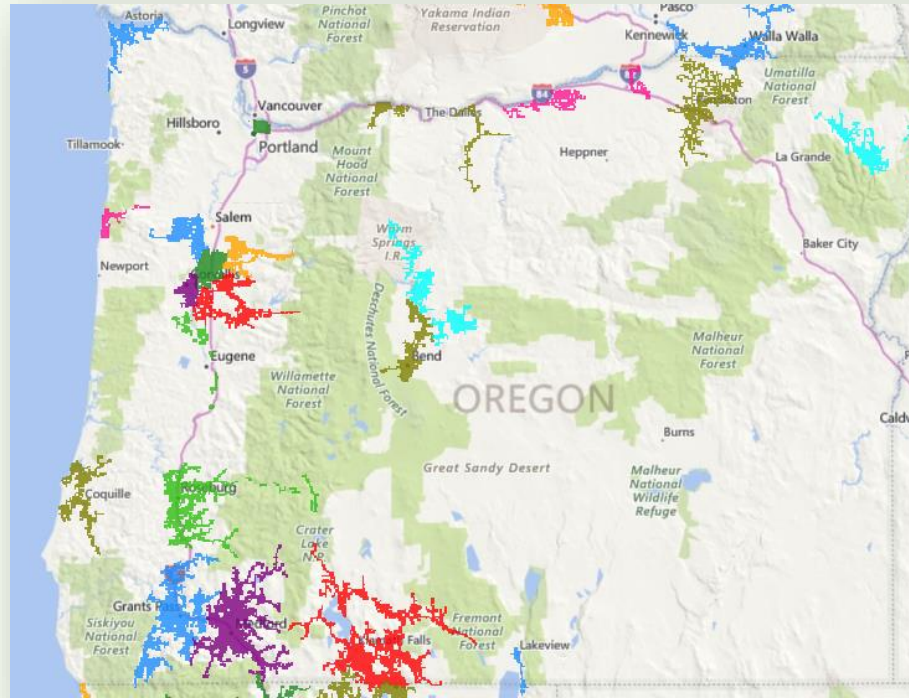
Customers

- Residential: 114,000
- Commercial: 18,000
- Irrigation: 5,000
- Industrial: 500

Other Characteristics:

- SCADA Coverage:
53% of circuits, 66% of substations
- No Advanced Metering Infrastructure (AMI)
- Net Metered DER Capacity: ~42 MW

Oregon System Overview



Distribution System

- Substations: 200 substations
- Circuits: 560
- Line miles (sum of pole-to-pole distance):
 - Overhead: 13,850
 - Underground: 5,398

Customers

- Residential: 547,210
- Commercial: 76,394
- Irrigation: 7,832
- Industrial: 1,513

Other Characteristics:

- SCADA Coverage:
50% of circuits, 53% of substations
- AMI coverage: ~98%
- Net Metered DER Capacity: ~204 MW

Key Differences

Smaller Service Area in Washington

- Substations and Circuits:
 - Washington: 33 subs, 140 circuits
 - Oregon: 200 subs, 560 circuits
- Customers:
 - Washington: 114k
 - Oregon: 547k
- Service areas in Oregon far more dispersed and diverse

System measurements:

- Similar SCADA coverage: ~50% of circuits
- Oregon has ~98% AMI coverage which helps fill in the SCADA gap

Partners for solutions:

- Oregon: Energy Trust of Oregon
- Washington: Internal Demand Side Management team



DSP | Importance of AMI and SCADA

Forecasting with AMI



Fills in gaps
where utility
does not have
SCADA
measurements



Provides more
granularity and
confidence in
growth rates and
load profiles



Growth based
on AMI data is
independent of
circuit load
transfers

Grid Needs and Solution Identification

How AMI helps identification of grid needs

- Each circuit is unique
- Disaggregation by customer class to better understand characteristics of growth
- Better models for peak load events
- Voltage measurements from meters can be used to identify power quality

How AMI helps with solution identification

- Advanced analytics produces comprehensive understanding for targeted solution opportunities
 - Electrification: EV charging detection, AC adoption, Heating, Appliances
 - Impacts of solar adoption
 - Impacts of zoning changes
 - Targeting energy programs for different customer classes

AMI uncovers the unique load growth and profile to create a comprehensive and effective solutions.



DSP | Differences in Implementation Partners

Oregon and Washington Funding Differences

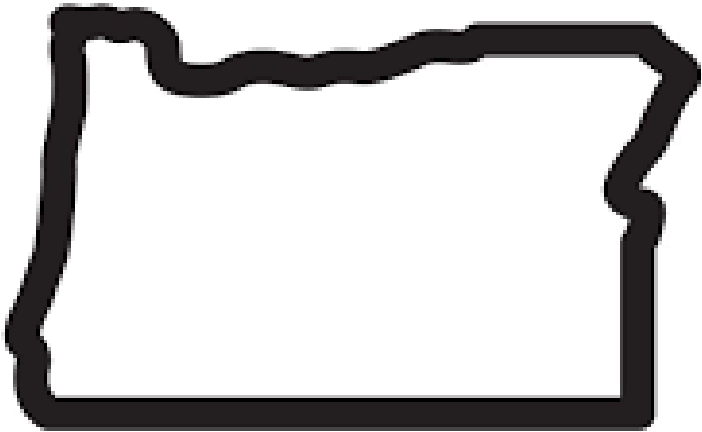
Oregon Public Purpose Charge

- SB 1149/SB 838 Allows Company to collect % of money from rate payers on behalf of Energy Trust of Oregon.
- This Public Purpose Charge is used for cost effective energy efficiency programs throughout the state.

Washington System Benefits Charge

- Schedule 191 “recover costs incurred by the Company associated with providing demand side management services and programs to customers.”
- Four different energy efficiency programs for all of Company customer classes.

Implementing Solutions



Oregon:

For DSP to implement certain nontraditional solutions, DSP must work with ETO who acts as a “program administrator”. Examples of nontraditional solutions: incentives for appliances, weatherization, home energy assessments



Washington:

For DSP to implement ALL nontraditional solutions, DSP will work with internal program administrators. Currently four demand side management (DSM) programs, which partner with non-profits and others to implement solutions.



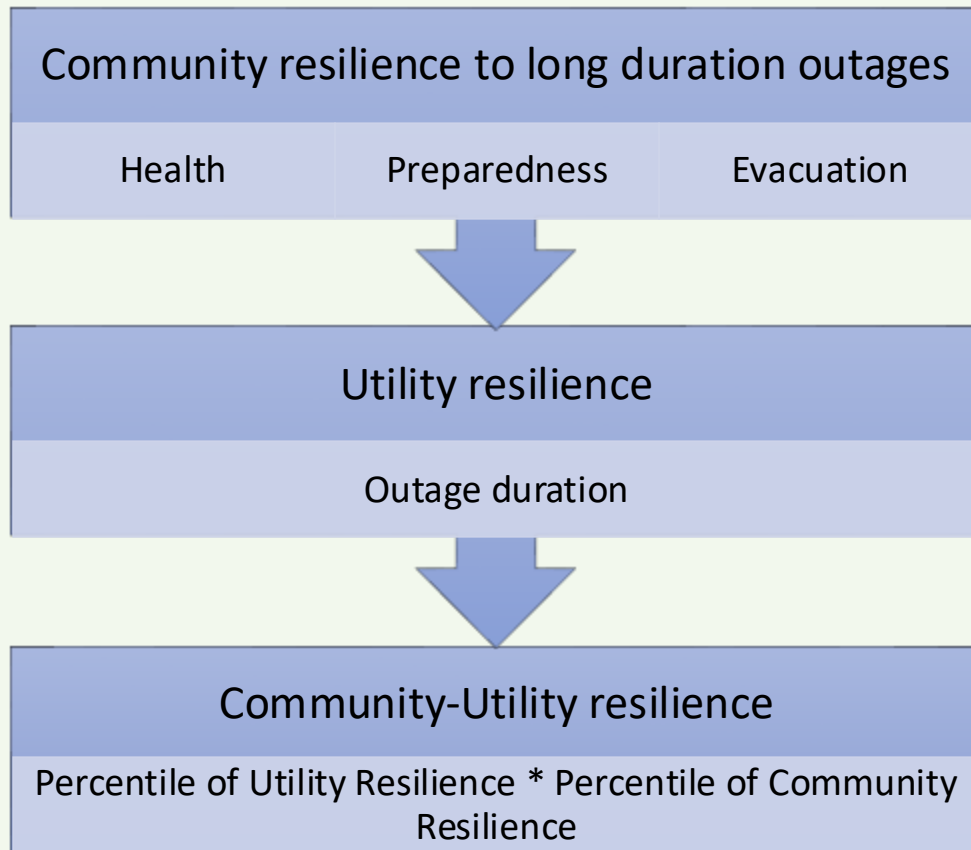
Learning curve for our Team but not for our company as DSM group has had a long, successful history.



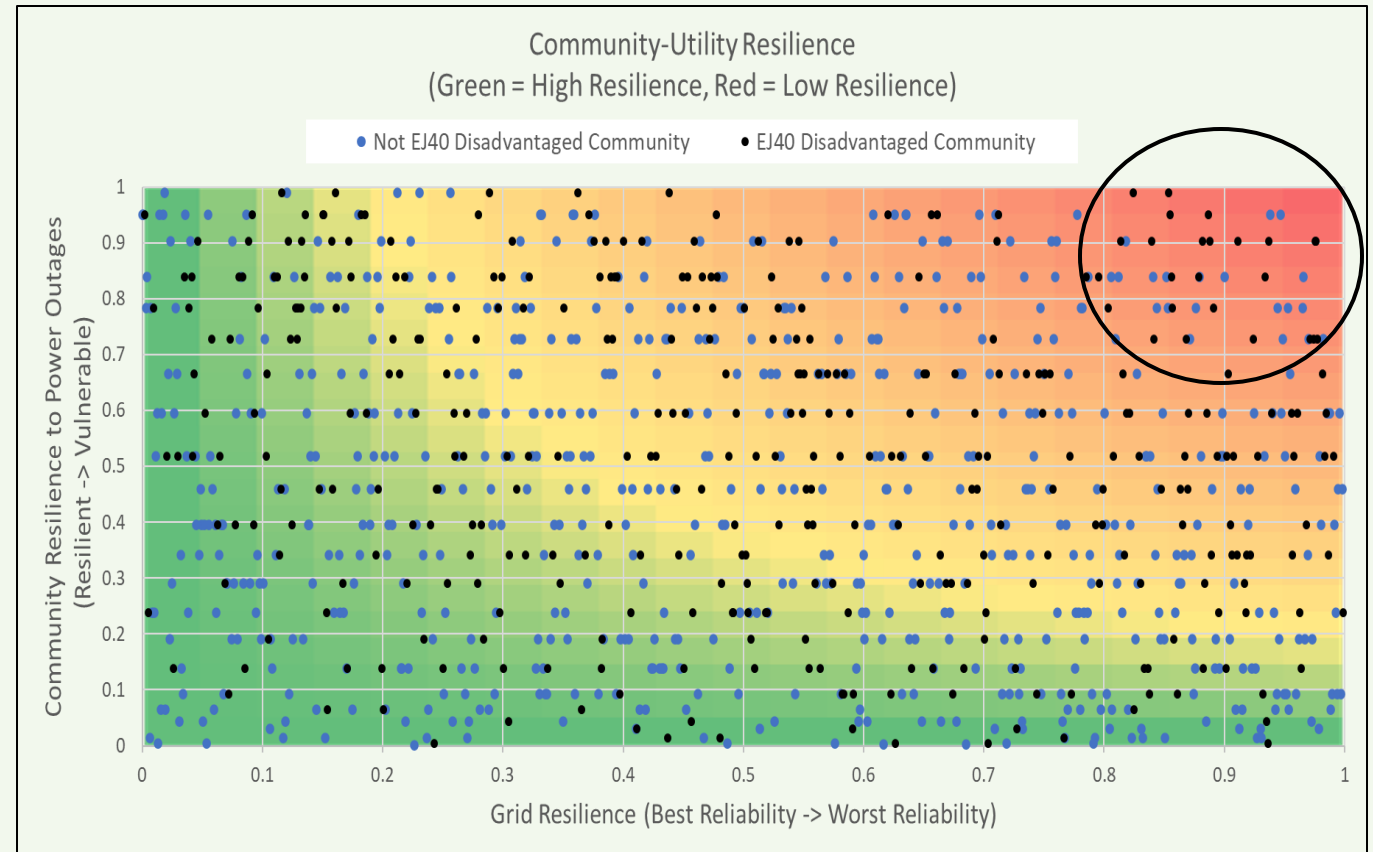
DSP | Resiliency

Defining Resilience

Three Components of Resiliency



Focus Efforts in Areas of Lowest Resilience and Worst Reliability

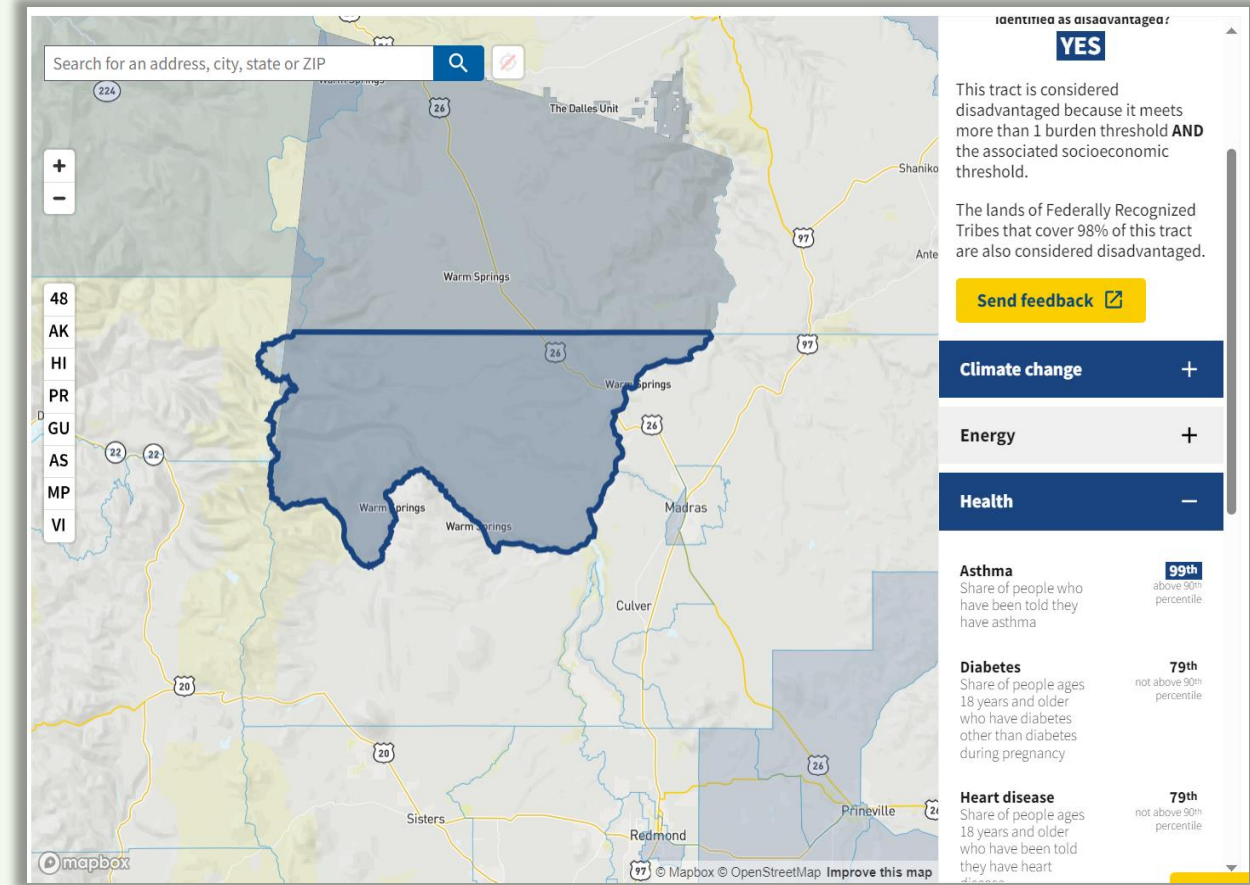


Environmental Justice 40 (EJ40) Disadvantaged Communities

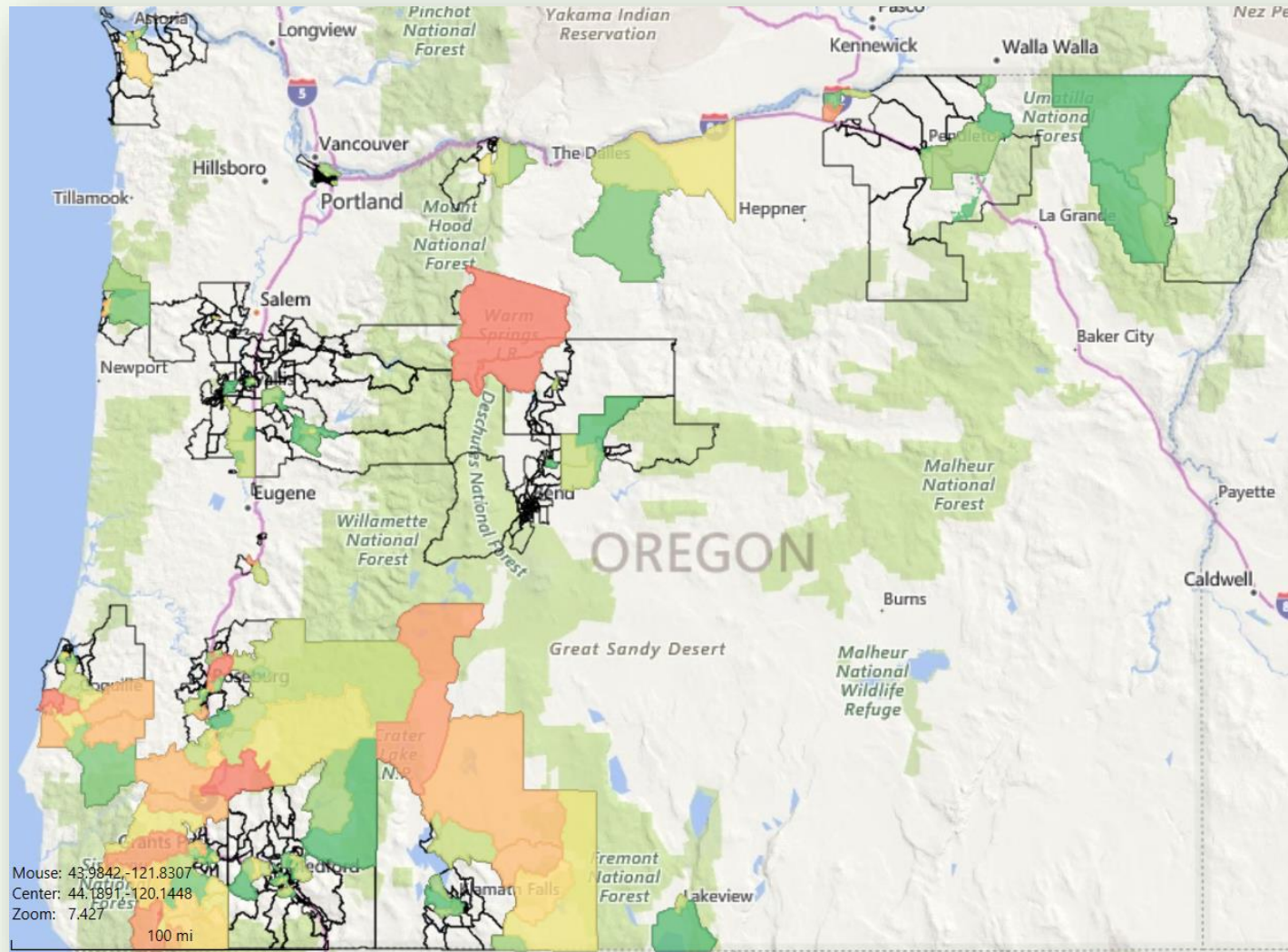
Apply a filter to our dataset to focus on EJ40 disadvantaged communities to *identify grant opportunities that can lower the financial barriers to implementing a solution to reduce outage vulnerability.*

Disadvantaged communities defined as census tract that exceeds one or more of the following category thresholds:

- Climate change
- Energy
- Health
- Housing
- Legacy Pollution
- Transportation
- Water and wastewater
- Workforce development



Community-Utility Resiliency with EJ40 Disadvantaged Communities Filter



Community – Utility Resilience Score

High Resilience

0.00 <= value < 0.10

0.10 <= value < 0.20

0.20 <= value < 0.30

0.30 <= value < 0.40

0.40 <= value < 0.50

0.50 <= value < 0.60

0.60 <= value < 0.70

0.70 <= value < 0.80

0.80 <= value < 0.90

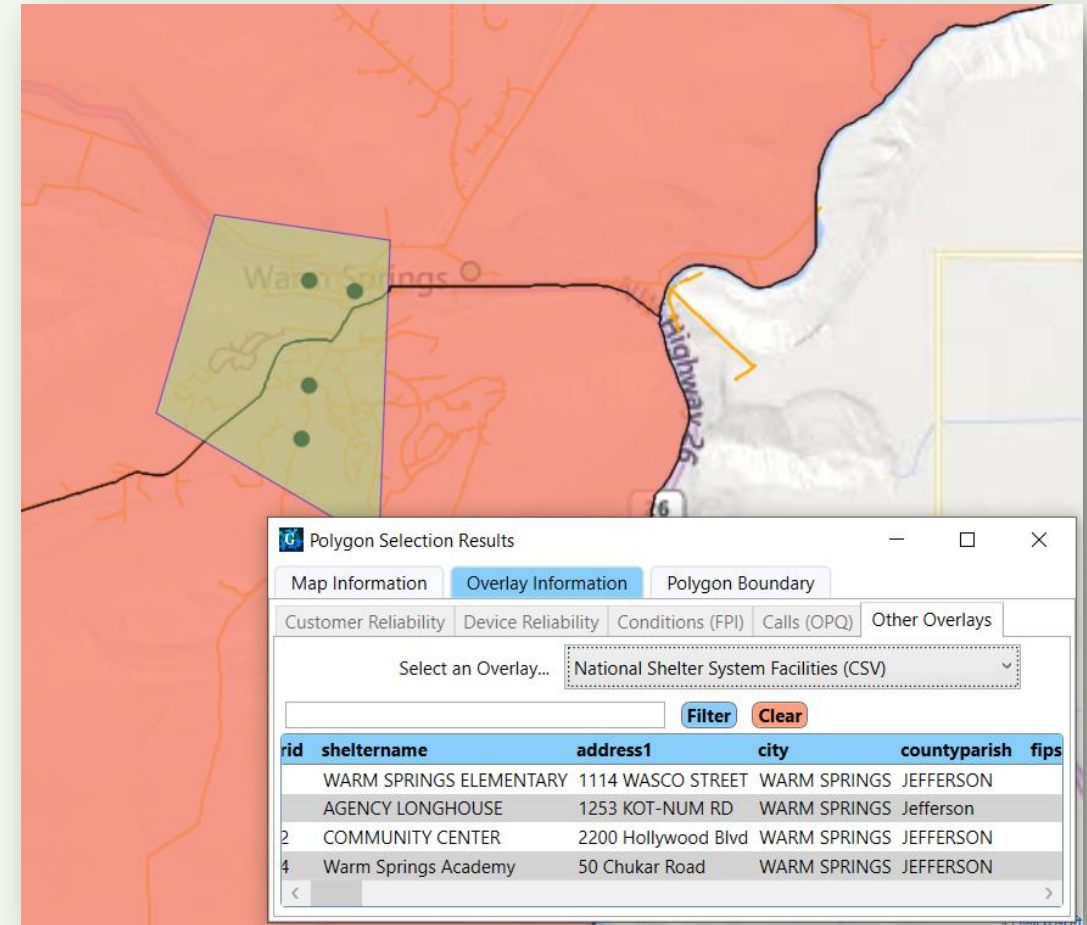
Low Resilience

0.90 <= value < 1.00

*Shaded areas are communities the company serves that meet the criteria for a disadvantaged community as defined by EJ40

National Shelter System & Community Resource Centers

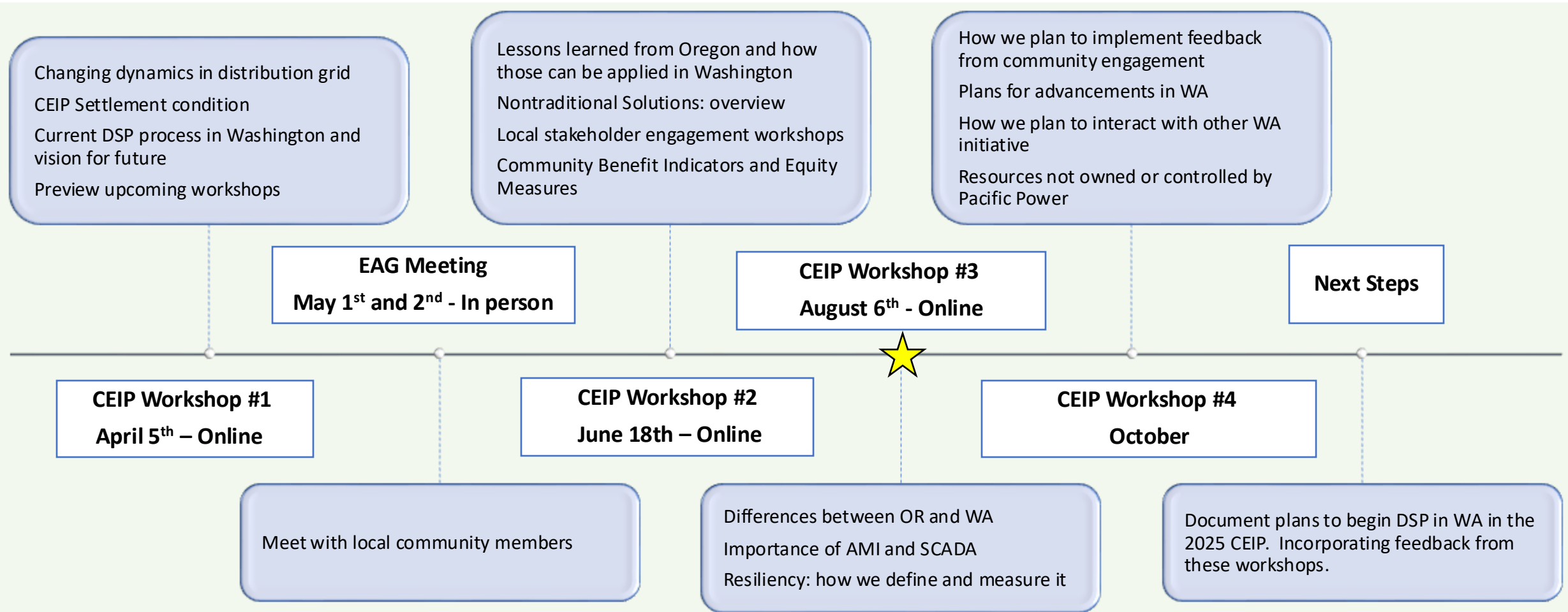
- FEMA and Red Cross has a database of facilities that can serve as a shelter in the event of a disaster and/ or have backup generation.
- Additionally, the Company has established relationships with community and public safety partners to identify sites where the Company may activate a Community Resource Center to provide services to communities during a PSPS event.
- Improving outage resilience through *grants* at these locations will reduce community vulnerability to outages in the areas they reside as well as communities within proximity.





DSP | Engagement Plan

2024 WA Distribution System Planning Engagement



*Dates shown are tentative and may change.

Questions?

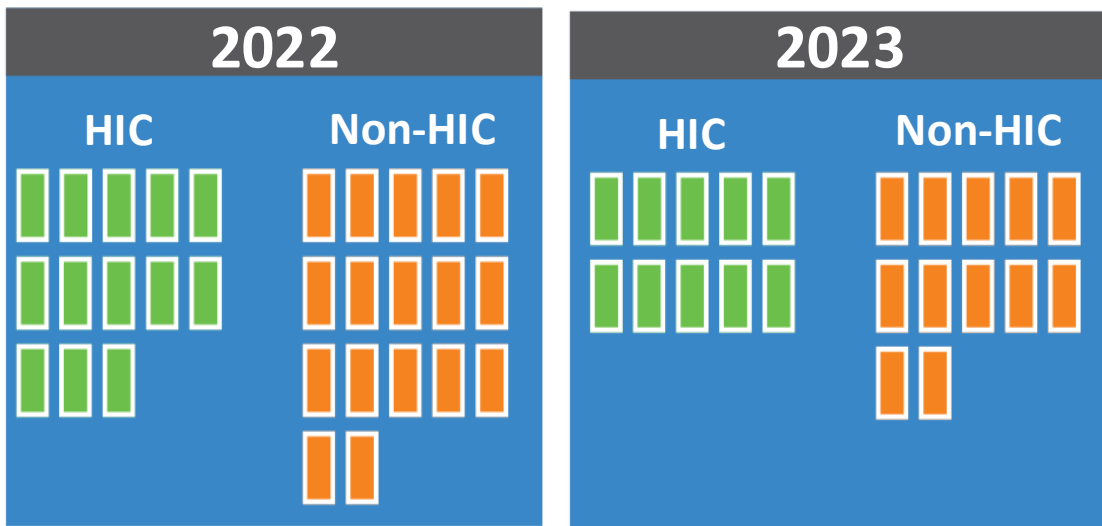
Public Comment

Appendix

Customer Benefit Indicators | Overview & Updates

#	CBI	Benefit Categories	Metric(s)
2	Increase community-focused efforts and investments	<ul style="list-style-type: none">▪ Non-energy benefit▪ Reduction of burden▪ Public health	<ul style="list-style-type: none">a. Number of workshops on energy related programsb. Headcount of staff supporting program delivery in Washington who are women, minorities, and/or can show disadvantagec. Number of public charging stations in Named Communities

Community Workshops

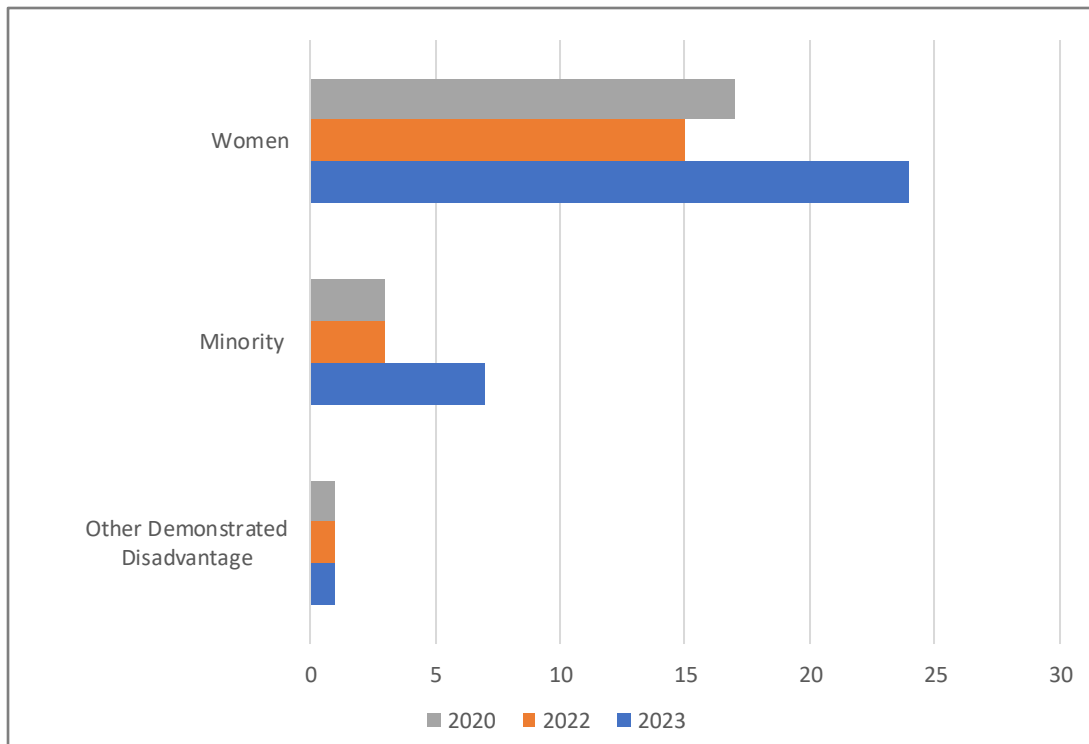


2023 Event Types:

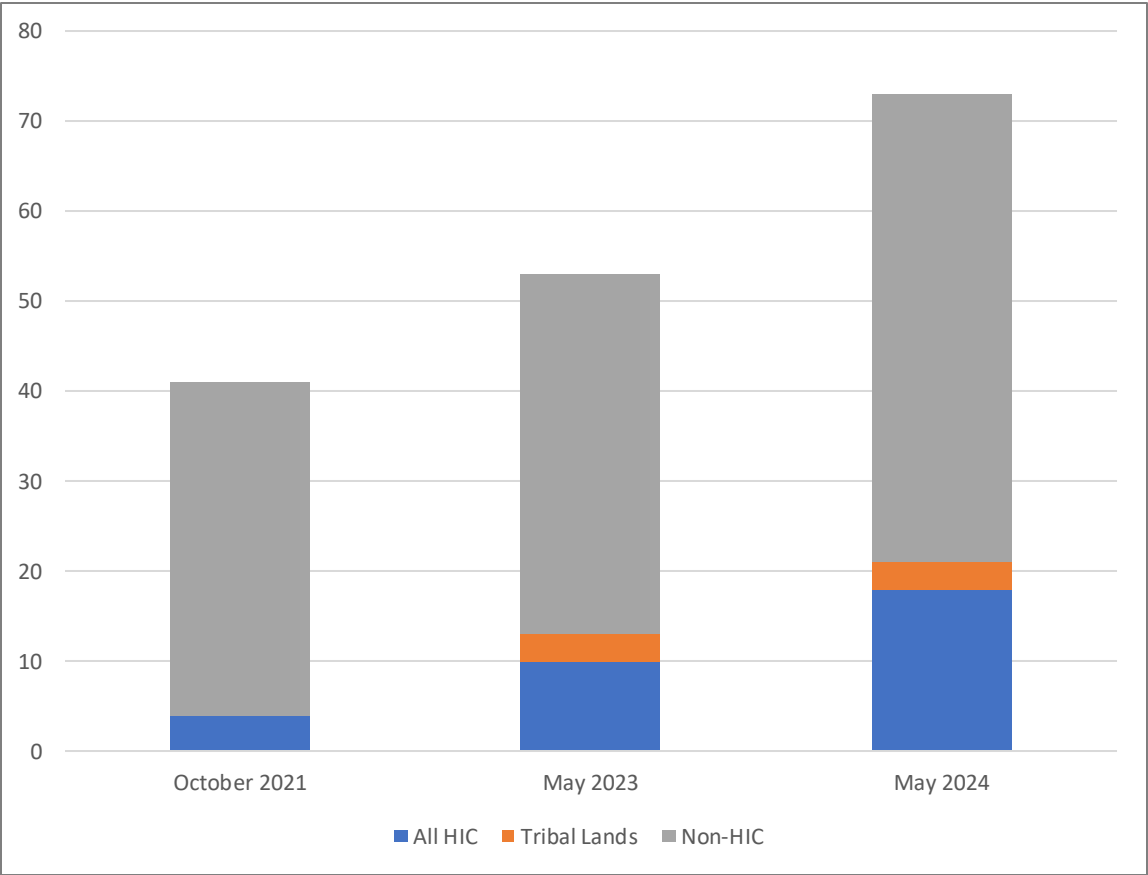
- Two Annual Wattsmart Business Vendor program
- One Clean Building Accelerator 'Coffee Chat'
- Four Clean Building Accelerator Training Workshops
- One Presentation at a Central Washington Hispanic Chamber of Commerce Meet & Greet
- One Presentation at Yakima Southwest Rotary
- Two Luminaire Level Lighting Controls trainings for Wattsmart Business Vendors
- One Presentation at Sustainable Living Center Public Workshop Series on Energy Savings and Solar

Staff Supporting Program Delivery

The headcounts are based on third-party program delivery staff who are customer and vendor/trade ally-facing and are focused on engaging customers in outreach, technical and back-office functions. Programs experienced an increase of seven female and four minority employees over the 2020 to 2023 timeframe.



Public Electric Vehicle Chargers Installed



*From 2020 to 2024, public access to EV Charging Infrastructure in PacifiCorp's Washington service area increased by 70%, **meaning an additional 29 chargers have been installed!***



CBI: Households Experiencing Energy Burden

Customer Benefit Indicators | Overview & Updates

#	CBI	Benefit Categories	Metric(s)
6	Decrease households experiencing high energy burden	<ul style="list-style-type: none">▪ Cost reduction▪ Reduction of burden	<p>a. Number and percent of customers experiencing high energy burden by highly impacted communities, vulnerable populations, low-income bill assistance (LIBA) and Low-Income Weatherization (LIWx) participants, and other residential customers; and average excess burden per household. High energy burden is defined as greater than or equal to six percent of household annual income</p>

Reduction of High Energy Burden

Table 20 provides the number and percent of households with high energy burden and average excess burden per household for all PacifiCorp customers, known low-income (KLI) customers, and Named Communities (HICs and vulnerable populations).

Table 20 – Customers Experiencing High Energy Burden for Washington Service Area^[1]

Population	2020				2022				2023			
	Mean Energy Burden (%)	No.	Percent	Average Excess Energy Burden	Mean Energy Burden (%)	No.	Percent	Average Excess Energy Burden	Mean Energy Burden (%)	No.	Percent	Average Excess Energy Burden
All HIC ^{[1][2]}	4.7%	6,471	21.3%	6.7%	4.0%	5,368	17.4%	5.6%	4.5%	6,015	19.4%	8.2%
Tribal Lands	6.1%	2,103	30.0%	7.8%	4.1%	1,356	19.1%	6.7%	4.8%	1,201	17.1%	10.7%
LIBA Participants ^[3]	5.7%	1,676	28.1%	10.7%	4.9%	2,054	22.6%	11.9%	6.4%	3,912	39.2%	10.8%
LIWx Participants ^[3]	7.8%	20	51.2%	6.1%	6.4%	56	39.7%	5.6%	6.3%	39	42.9%	10.2%
KLI	7.3%	1,616	38.5%	7.8%	6.1%	1,678	27.8%	7.2%	7.3%	3,164	41.0%	6.8%
All Customers	3.7%	14,750	13.2%	7.8%	3.4%	12,445	11.0%	6.7%	3.7%	15,688	13.8%	6.9%

^[1] Sources: PacifiCorp Residential Survey (2021 and 2023) and CETA Public Survey (2023) for self-reported household income; customer billing records from 2020 and 2022.

^[2] Baseline values updated since 2021 draft CEIP to account for WDOH update to EDH in July 2022.

^[3] Implementation agencies for LIBA and LIWx provided PacifiCorp with a sample of verified household income levels for 2020 participants and 2022 participants. PacifiCorp also used customer billing records from 2020 and 2022.



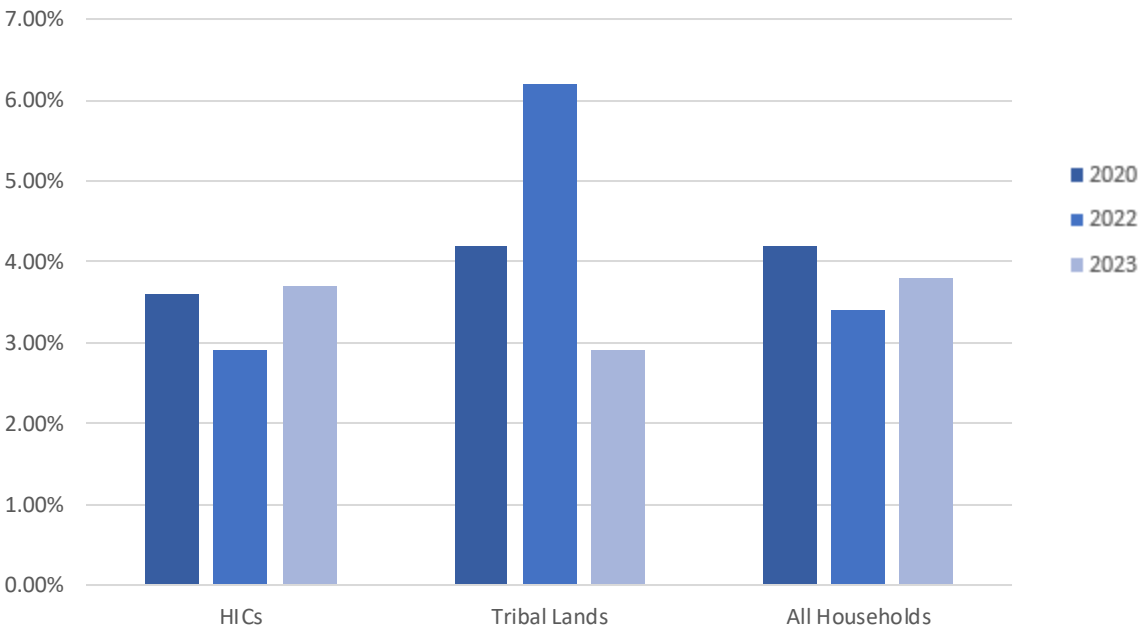
CBI: Indoor Air Quality

Customer Benefit Indicators | Overview & Updates

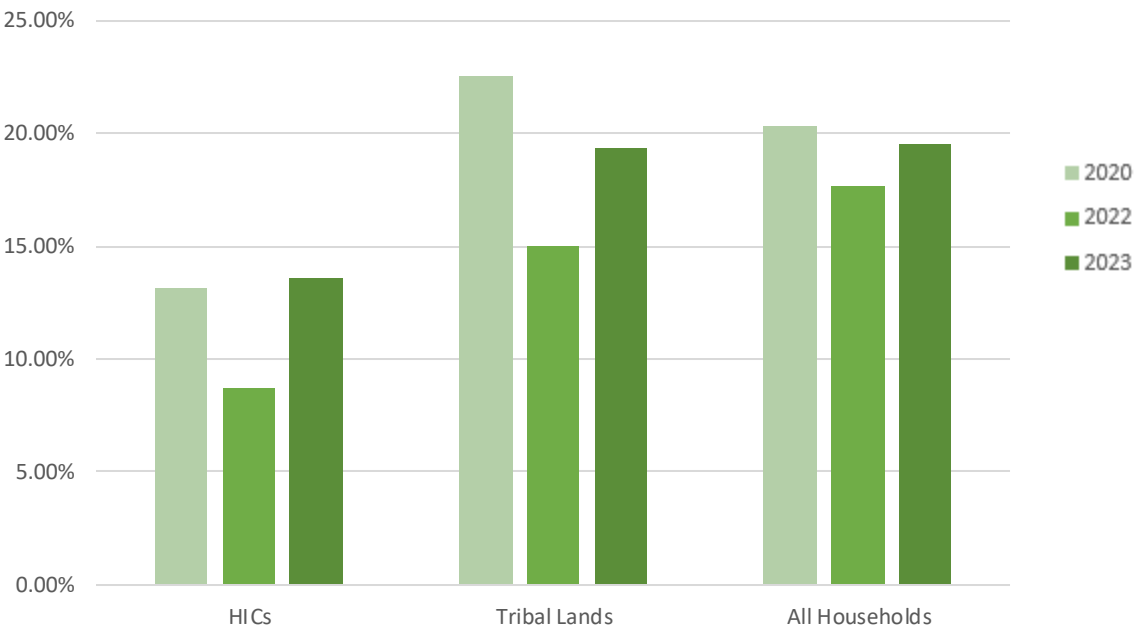
#	CBI	Benefit Categories	Metric(s)
7	Improve indoor air quality	<ul style="list-style-type: none">Public healthNon-energy benefit	<ul style="list-style-type: none">a. Number and percent of households using wood as primary or secondary heatingb. Number and percent of non-electric to electric conversions for LIWx program

The Indoor Air Quality CBI evaluates the number of households using wood as primary or secondary heating

Households using wood as primary heating source



Households using wood as secondary heating source



Non-Electric to Electric Heating Conversion for LIWx Program


The LIWx Program targets homes that are converted to electric heat from heating with non-regulated combustion fuels such as:

- Propane
- Oil
- Wood

In 2020, customers with non-electric heating did not qualify for a heating system conversion under Schedule 114, which controls the eligible measures through the program.

In February 2022, Schedule 114 was modified to allow this conversion, however, no projects were completed by the end of 2023

	Tribal Lands			HIC			All		
	2020	2022	2023	2020	2022	2023	2020	2022	2023
Number of Households Converted	0	0	0	0	0	0	0	0	0
Percent of Households Converted	0%	0%	0%	0%	0%	0%	0%	0%	0%



CBI: Frequency & Duration of Energy Outages

Customer Benefit Indicators | Overview & Updates

#	CBI	Benefit Categories	Metric(s)
8	Reduce frequency and duration of energy outages	<ul style="list-style-type: none">▪ Energy resiliency▪ Risk reduction▪ Energy benefit	<p>a. System Average Interruption Duration Index (SAIDI), System Average Interruption Frequency Index (SAIFI), Customer Average Interruption Duration Index (CAIDI), and Customers Experiencing Multiple Interruptions (CEMI) scores (rolling 7-year average) at area level including and excluding major events</p>



CBI: Residential Customer Disconnections

Customer Benefit Indicators | Overview & Updates

#	CBI	Benefit Categories	Metric(s)
9	Reduce residential customer disconnections	<ul style="list-style-type: none"> Energy security 	<ul style="list-style-type: none"> a. Number and percentage of residential electric disconnections for nonpayment by month, measured by location and demographic information (zip code/census tract, known low income (KLI) customers, Vulnerable Populations (where known), Highly Impacted Communities, and for all customers in total) b. Residential arrearages as reported pursuant to Commission Order 04 (Appendix A Third Revised Term Sheet, Section J, Part 8 ac) major events



CBI: Named Community Clean Energy

Customer Benefit Indicators | Overview & Updates

#	CBI	Benefit Categories	Metric(s)
10	Increase Named Community Clean Energy	Energy benefits	<ul style="list-style-type: none"> a. Total MWh of distributed energy resources 5 MW and under, where benefits and control of resource accrue to members of Named Communities b. Total MWs of energy storage resources 5 MW and under, where benefits and control of the resource accrue to members of Named Communities c. Number (i.e., sites, projects, and/or households) of distributed renewable generation resources and energy storage resources, where benefits and control of the resource accrue to members of Named Communities, including storage/backup/emergency powered centers for emergencies d. Total MWh of energy savings from EE programs, where benefits and control of the savings accrue to members of Named Communities e. Where known, for a), b), c), and d) above, PacifiCorp will specify whether the Named Community resources are highly impacted communities (HIC) and/or vulnerable population and/or KLI

Pacific Power Four DSM Programs

Low Income Weatherization

- Working with three local non-profits in our service area.
- Pacific Power funding and Washington Match Maker Program so it's no cost to households.
- In 2022, 141 households were funded

Home Energy Savings

- Program is design to provide access and incentives for efficient products and services installed or received by customers

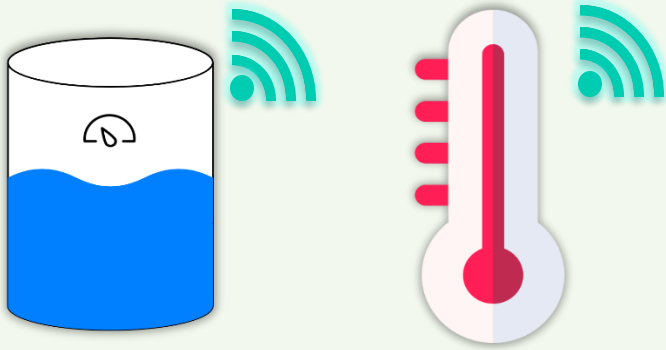
Home Energy Reports

- Behavioral program designed to decrease participant energy usage by providing comparative energy usage data for similar homes located in the same geographical area.
- Also provides tips, information on how participants can reduce energy consumption.

Wattsmart Business

- Maximize the efficient use of electricity for new and existing non-residential customers through the installation of energy efficiency measures and energy management protocols.
- Upgrades: lighting, HVAC, other equipment, energy analysis,

<https://www.pacificorp.com/environment/demand-side-management.html>



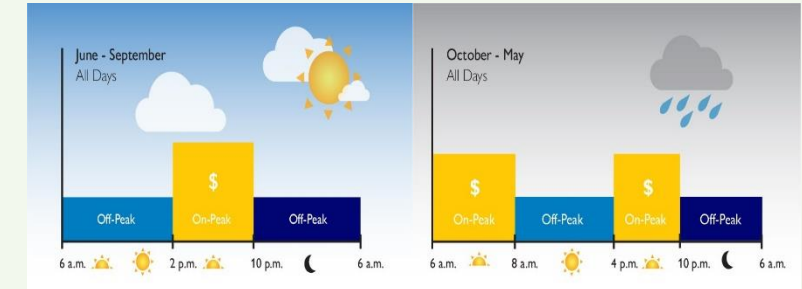
Optimal Time Rewards

- Smart thermostat program
 - ❖ Smart thermostat rebates through Energy Trust of Oregon
- Water heater program (multi-family only)
- Initial enrollment incentive
- Ongoing annual incentive



Commercial & Industrial Demand Response

- Commercial and Industrial customers agree to curtail load during peak events in exchange for financial incentives
- Incentives vary by:
 - ❖ Average available load for curtailment during product hours
 - ❖ Advance notification timing



Time of Use Rate

- On-peak: about 12¢ per kilowatt-hour (kWh)
- Off-peak: about 7¢ per kWh
- First year guarantee:
 - ❖ Bill will be no more than 10% more than it would have been under standard rate