

# Clean Energy Implementation Plan

October 10, 2023



# Clean Energy Implementation Plan Engagement Series

October 10, 2023, 1:00-4:00 p.m., PT

**THIS MEETING WILL BE RECORDED**

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## Agenda

Clean Energy Implementation Plan Engagement Series	
1:00 p.m.	Purpose & Objectives
1:05 p.m.	Customer Benefit Indicators
1:45 p.m.	Equity, Outreach, Language, and Communications
2:25 p.m.	Integrated Resource Planning, Interim Targets, and Incremental Costs
3:05 p.m.	DSM: Energy Efficiency and Demand Response
3:45 p.m.	Questions, Comments & Parking Lot Items
3:55 p.m.	Wrap Up & Next Steps

# Clean Energy Implementation Plan Engagement Series

October 10, 2023, 1:00-4:00 p.m., PT

## Purpose:

Provide a discussion on the Clean Energy Implementation Plan (CEIP) with expanded learning opportunities of the progress on the plan while gathering public input into the Biennial Update for the CEIP.

## Today's Objectives:

1. Deepen understanding of:
  - Customer Benefit Indicators
  - Equity and Engagement
  - IRP, Interim Targets and Incremental Costs
  - Demand Side Management
2. The opportunity for engagement, feedback, and questions on each agenda topic

# Customer Benefit Indicators (CBIs)

# PacifiCorp Customer Benefit Indicators

No.	CBI	Metric(s)
1	Increase culturally and linguistically responsive outreach and program communication	a. Number of topics addressed in outreach in non-English languages
		b. Number of impressions from non-English outreach
		c. Percentage of responses to surveys in Spanish
2	Increase community-focused efforts and investments	a. Number of workshops on energy related programs
		b. Headcount of staff supporting program delivery in Washington who are women, minorities, and/or can show disadvantage <sup>a</sup>
		c. Number of public charging stations in named communities
3	Increase participation in company energy and efficiency programs and billing assistance programs	a. Number of households/businesses, including named communities, who participate in company energy/efficiency programs
		b. Dollar value of energy efficiency expenditures <sup>b</sup>
		c. Number and percent of eligible households that participate in billing assistance programs
		d. Number of households/businesses who participate/enroll in demand response, load management, and behavioral programs
		e. Dollar value of demand response, load management, and behavioral programs expenditures <sup>b</sup>
4	Increase efficiency of housing stock and small businesses, including low-income housing	a. Number of households and small businesses that participate in company energy/efficiency programs
		b. Dollar value of energy efficiency expenditures <sup>b</sup>
5	Increase renewable energy resources and reduce emissions	a. Amount of renewables/non-emitting resources serving Washington
		b. Amount of Washington allocated greenhouse gas emission from Washington allocated resources
6	Decrease households experiencing high energy burden	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
7	Improve indoor air quality	a. Number and percent of households using wood as primary or secondary heating
		b. Number and percent of non-electric to electric conversions for Low-Income Weatherization program
8	Reduce frequency and duration of energy outages	a. SAIDI, SAIFI, and CAIDI scores (rolling 7-year average) at area level including and excluding major events <sup>c</sup>
9	Reduce residential customer disconnections	a. Number and percent of residential customer disconnections including disconnections within named communities

<sup>a</sup> In this metric, program delivery is defined as related to energy efficiency programs, with exception to the LIWX program

<sup>b</sup> Energy efficiency expenditures include customer, partner, and direct install incentive payments and exclude all other administrative or program costs

<sup>c</sup> SAIDI stands for System Average Interruption Duration Index, SAIFI stands for System Average Interruption Frequency Index, and CAIDI stands for Customer Average Interruption Duration Index

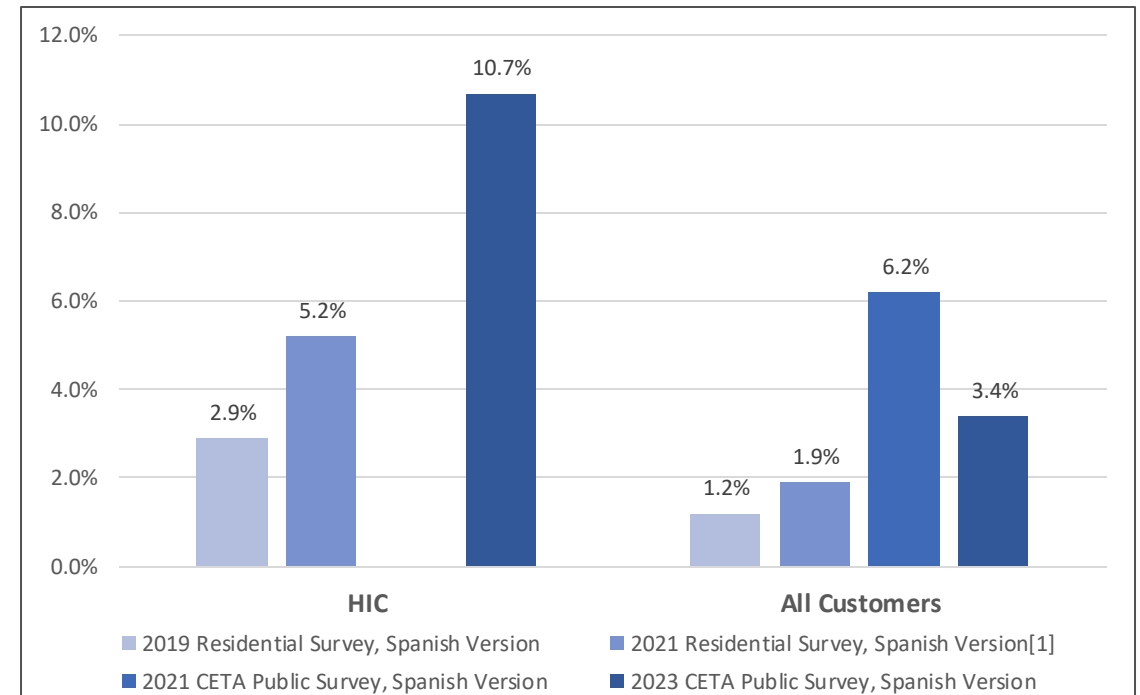
Pacific Power is committed to proactively increasing access and better communicating with the **30.7%** of Spanish speaking households within its' Washington service area.

### Expansion of Communication Channels for Spanish-Language Outreach

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

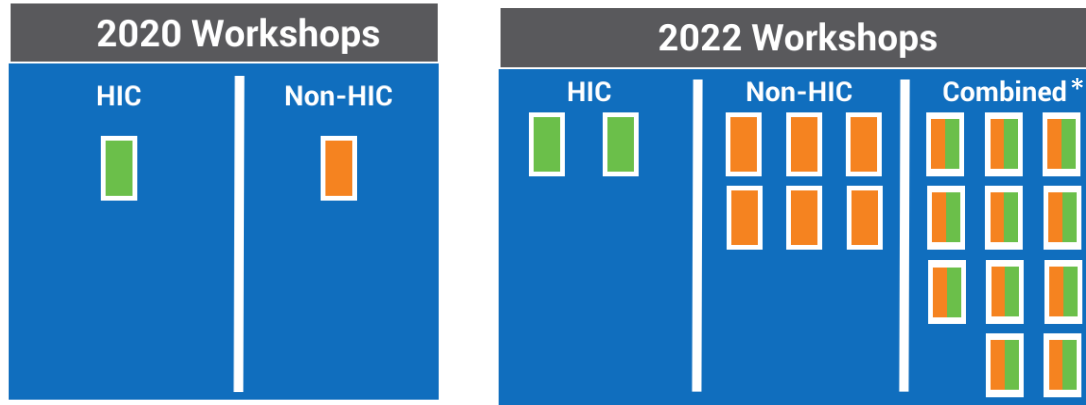
# Culturally & Linguistically Responsive Outreach

## Spanish-Language Survey Responses



# Pacific Power's Community-Focused Efforts & Investments

## Community Workshops



### 2020 Event Types:

- Vendor training(s)

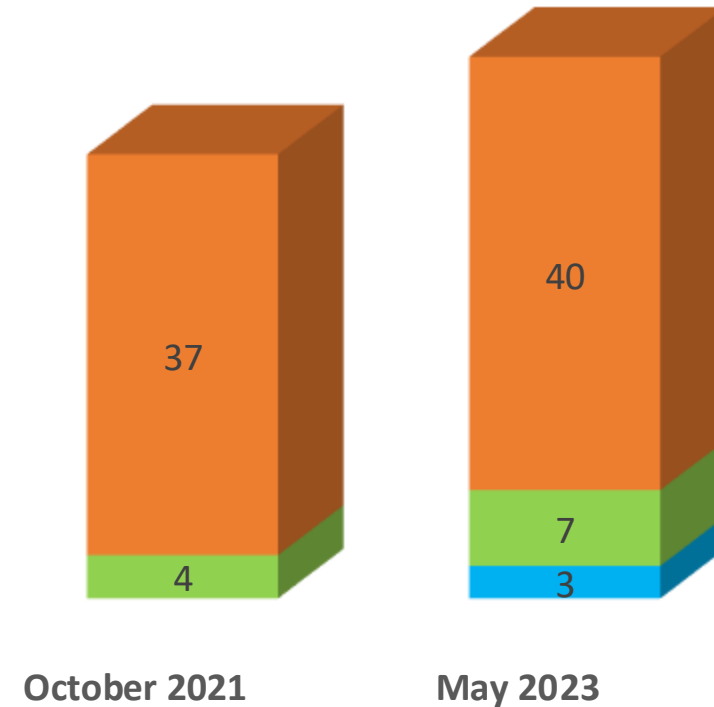
### 2022 Event Types:

- Vendor training(s)
- Clean Building Accelerator training (4-part series), info sessions, and community roundtable
- Presentation of residential rebates at fruit packing plants

*\*Workshops held online where participants reported both HIC and non-HIC locations*

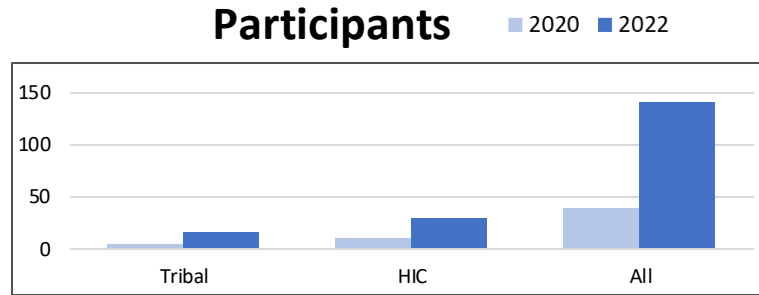
## Public EV Chargers Installed

■ Tribal ■ Non-Tribal HIC ■ Non-HIC

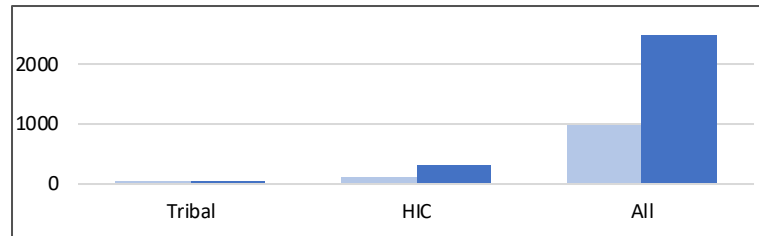


# Energy & Efficiency Program Participation/ Efficiency of Buildings

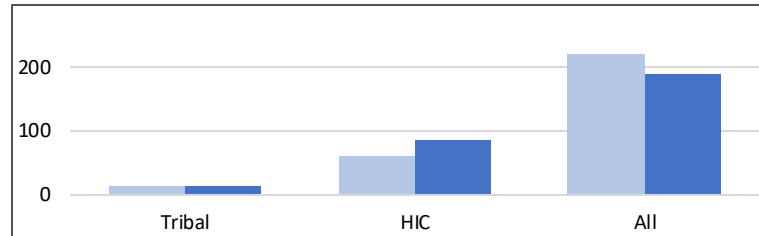
## Low Income Weatherization



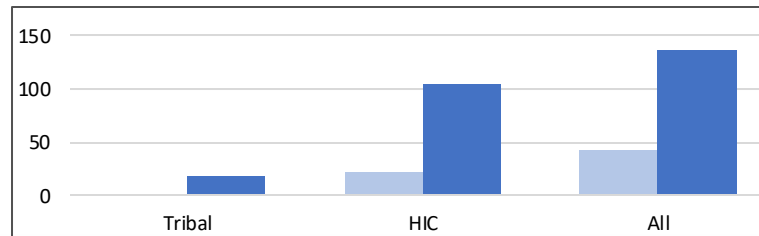
## Home Energy Savings



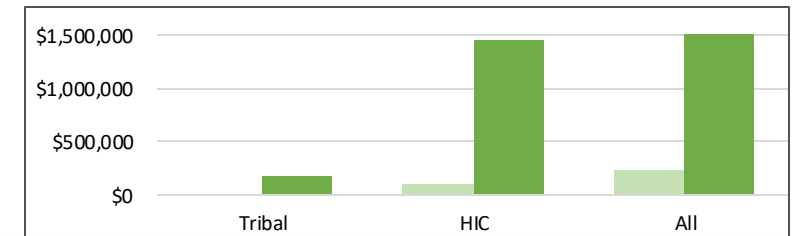
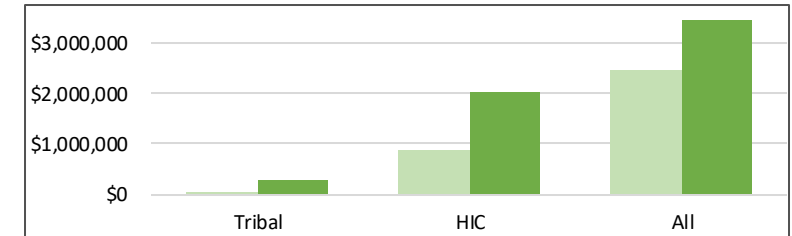
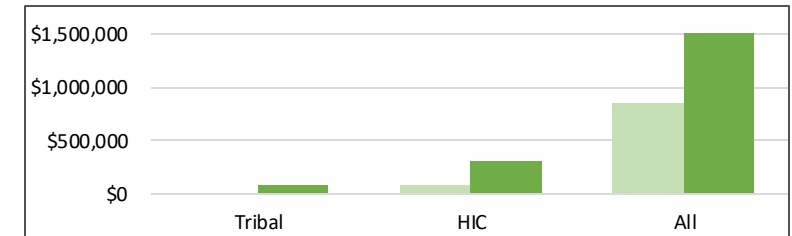
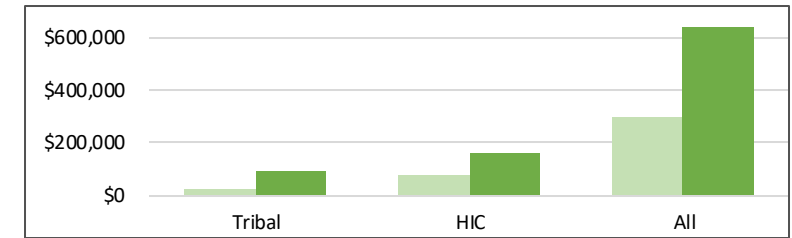
## Wattsmart Business



## Wattsmart Small Business



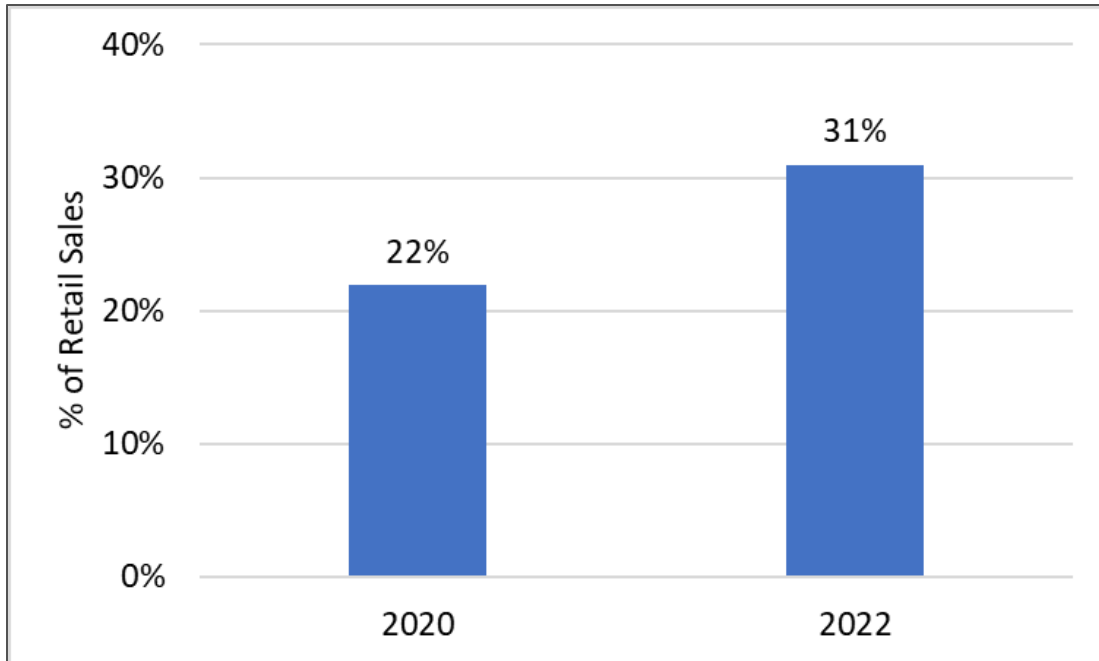
## Expenditures



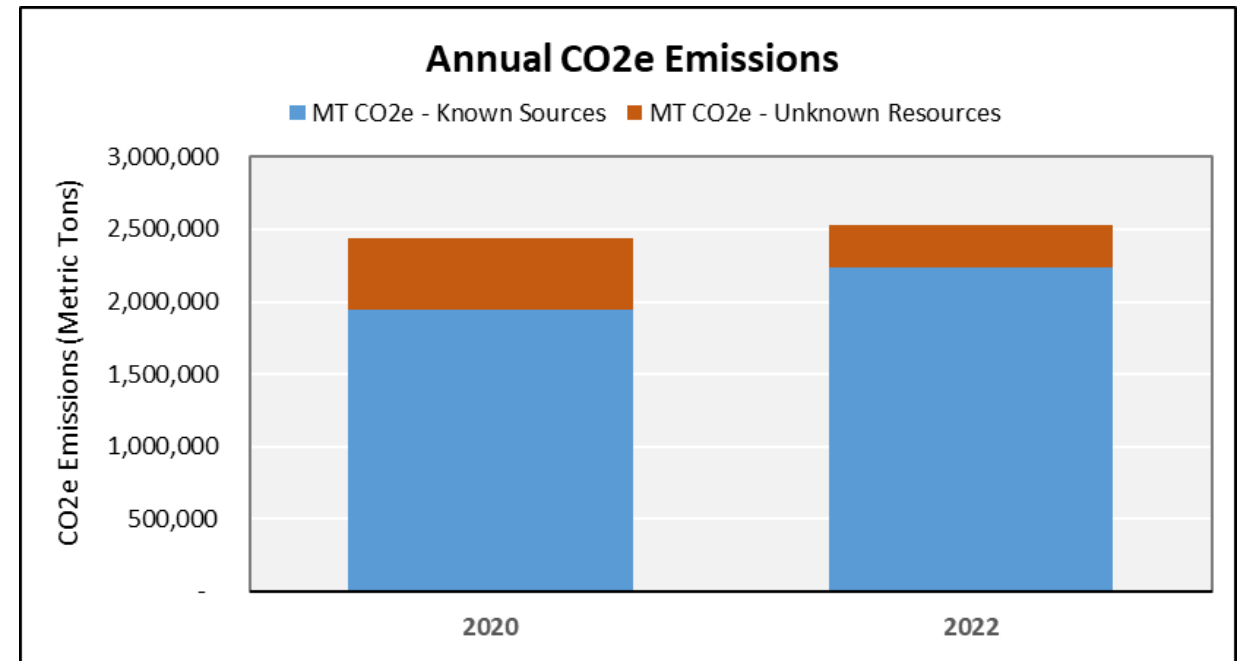


# Renewable Energy Resources & Emissions

## Retail Sales Served by Renewable and Non-Emitting Energy Resources

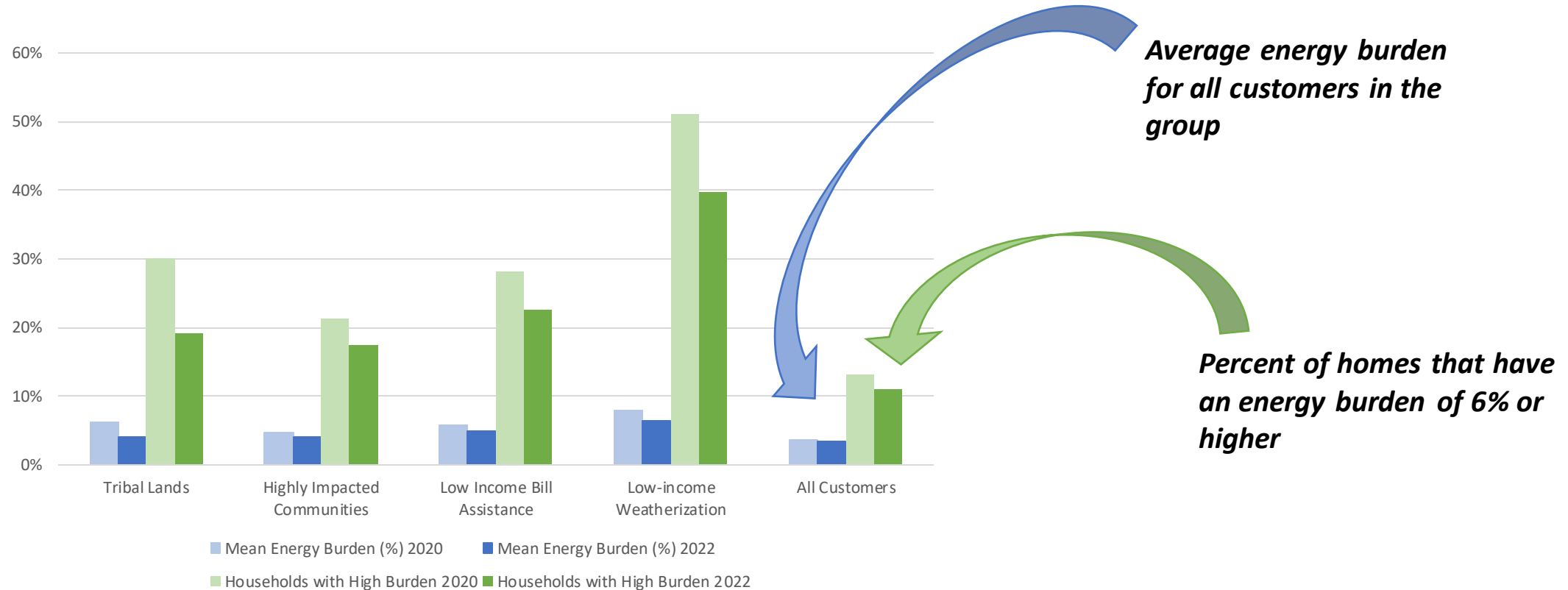


## Greenhouse Gas Emission from Washington Allocated Resources



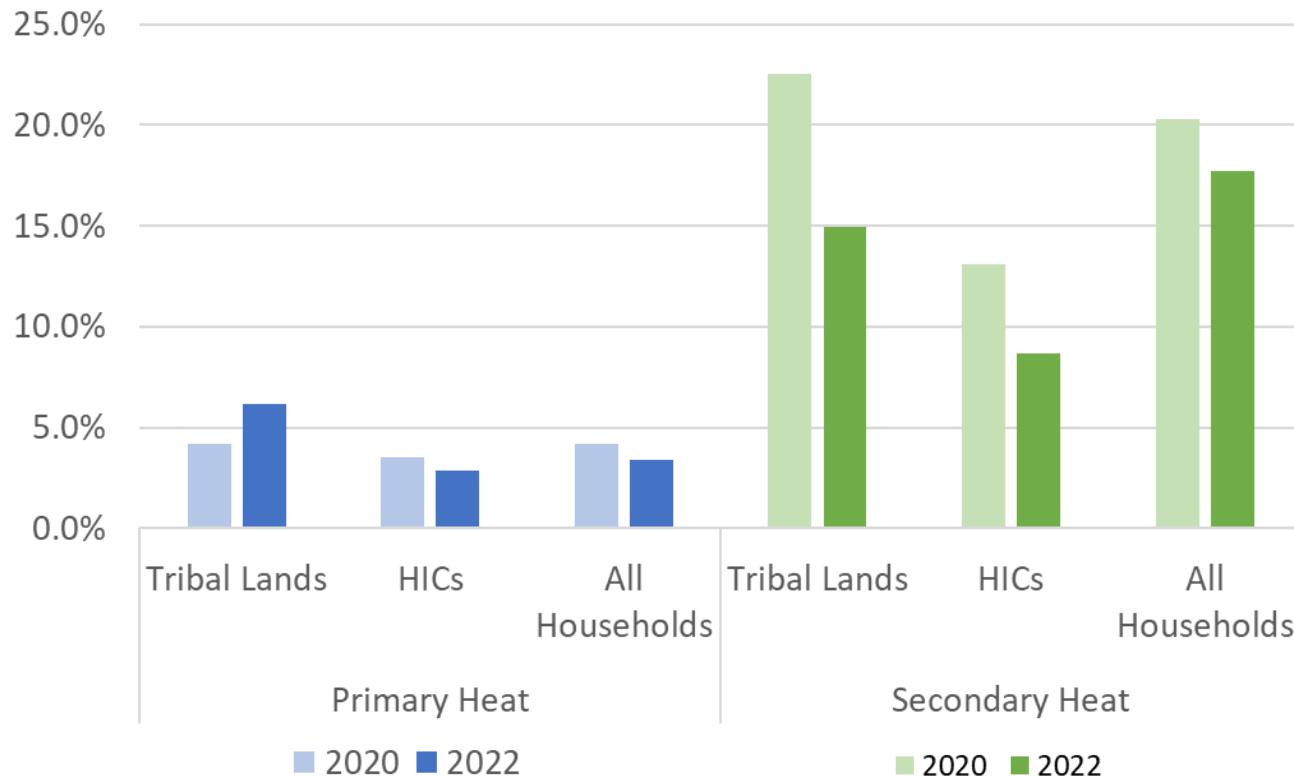
# High Energy Burden

Mean Energy Burden and Percentage of Households with High Burden, by Customer Segment



# Indoor Air Quality

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



From 2020 to 2022, Pacific Power has increased access to alternative heating across nearly all customer segments.

# Residential Customer Disconnections

	Tribal Lands		HIC		All Customers	
	2019	2022	2019	2022	2019	2022
<b>Number of Residential Disconnections</b>	157	0	657	1	1,375	9
<b>Percent of Customers Experiencing a Disconnection</b>	2.27%	0.00%	2.19%	0.00%	1.24%	0.01%

- COVID-19 related impacts on disconnections lingered into 2022, resulting in unusually low numbers of disconnections
- Disconnections will probably increase in 2023 to close to pre-COVID levels
- PacifiCorp is working with stakeholders on a plan to reduce disconnections in a more permanent way in the future

# Equity, Outreach, Language, and Communication

# PacifiCorp's Commitment to Equity

At PacifiCorp, we continue on our journey of fostering equity in the six states we serve, while building a diverse, equitable and inclusive workplace – one that welcomes and celebrates our differences and is reflective of the communities in which we live and work. We respect and cherish the rich diversity of our customers, partners, suppliers and employees and seek to always learn how we can grow on this journey.



We are committed to:

- Enabling access to electric service in underserved communities and for customers with low incomes
- Partnering with state and local governments to advance equitable access to energy innovation, including electric vehicles and transportation
- Seeking ways to advance supplier diversity while ensuring inclusive bidding opportunities and other business practices
- Advancing equity through community grants made through the PacifiCorp Foundation
- Maintaining strong relationships with Sovereign Tribal Nations and Native communities in our service regions
- Offering multi-lingual resources to our customers and communities while being multiculturally conscious
- Being a supportive employer for veterans and active-duty service members
- Championing employee resource groups for employees who identify as: Asian and Pacific Islander; Black; Latino, Latina and Latine; LGBTQ+; Veterans; Women; and their allies

1

**RECOGNITION**

- Demographics
- Program Design
- PUC hire or consultant
- Supplier Diversity
- Workforce

2

**DISTRIBUTIVE**

- Access to innovative financing or technologies
- Affordability
- Customer Reliability
- Distribution Investments
- Rate Design
- Utility Incentives

3

**PROCEDURAL**

- Creating working groups
- Education & Outreach
- Enhanced Party Representation
- Enhanced Engagement

4

**RESTORATIVE**

- Environmental Effects
- Customer Protection
- Community Resilience
- Renewable Energy Siting
- Imbalance for legacy customers

# 1

## **RECOGNITION**

- Residential Energy Usage Survey
- Modified the Low-Income Bill Assistance Program
- Energy Burden Assessment
- Outside subject matter expertise and facilitation
- Building adaptive leadership skills

# 2

## **DISTRIBUTIVE**

- On-Bill Financing, including a service that provides upfront costs through implementation partners Craft3
- Residential Energy Efficiency Program Actions

# 3

## **PROCEDURAL**

- Formed Equity Advisory Group (EAG), which was assembled in 2021 and continues to meet
- Development of CBIs, informed by advisory group participation

# 4

## **RESTORATIVE**

- Established Utility Actions within the CEIP, representing a commitment to residential and non-residential customers to focus on delivery of benefits to named communities





# Engagement

# Who Is Engaged with this Work?

**INTEGRATED RESOURCE  
PLAN STAKEHOLDER GROUP**



**ENVIRONMENTAL & JUSTICE  
GROUPS**



**PUBLIC CUSTOMER  
ENGAGEMENT**



**EQUITY ADVISORY GROUP**



**REGULATORS**  
WA UTILITIES AND  
TRANSPORTATION  
COMMISSION (UTC)



**DEMAND-SIDE  
MANAGEMENT (DSM)  
ADVISORY GROUP**

**UTILITY INDUSTRY**



**LOW-INCOME ADVISORY GROUP**

# External Engagement Approach



Foster shared understanding



Maintain a public participation process that is open, transparent, and accessible



Inspire new tools and approaches for how we communicate and expand our outreach



Building new partnerships and amplifying opportunities for collaboration



Input shapes how we deliver programs and information on them



Community voices inform how we think about planning



## Pacific Power has launched its first ever earned-media multicultural campaign in Washington

- **Topics:** Wattsmart Residential and Small Business (Energy Efficiency)
- **Goal:** To increase awareness and participation in Pacific Power's Wattsmart energy efficiency programs among Spanish-speaking Washington customers

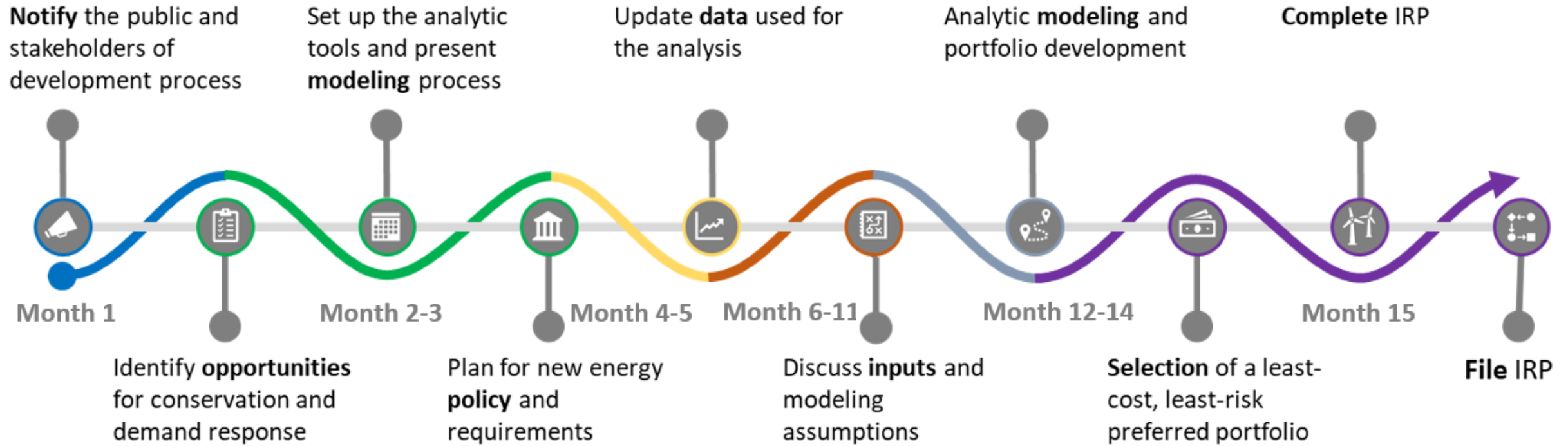
*Engage communities where they are!  
More than language – it's identity, culture matters!*



# Integrated Resource Planning, Interim Targets, and Incremental Costs

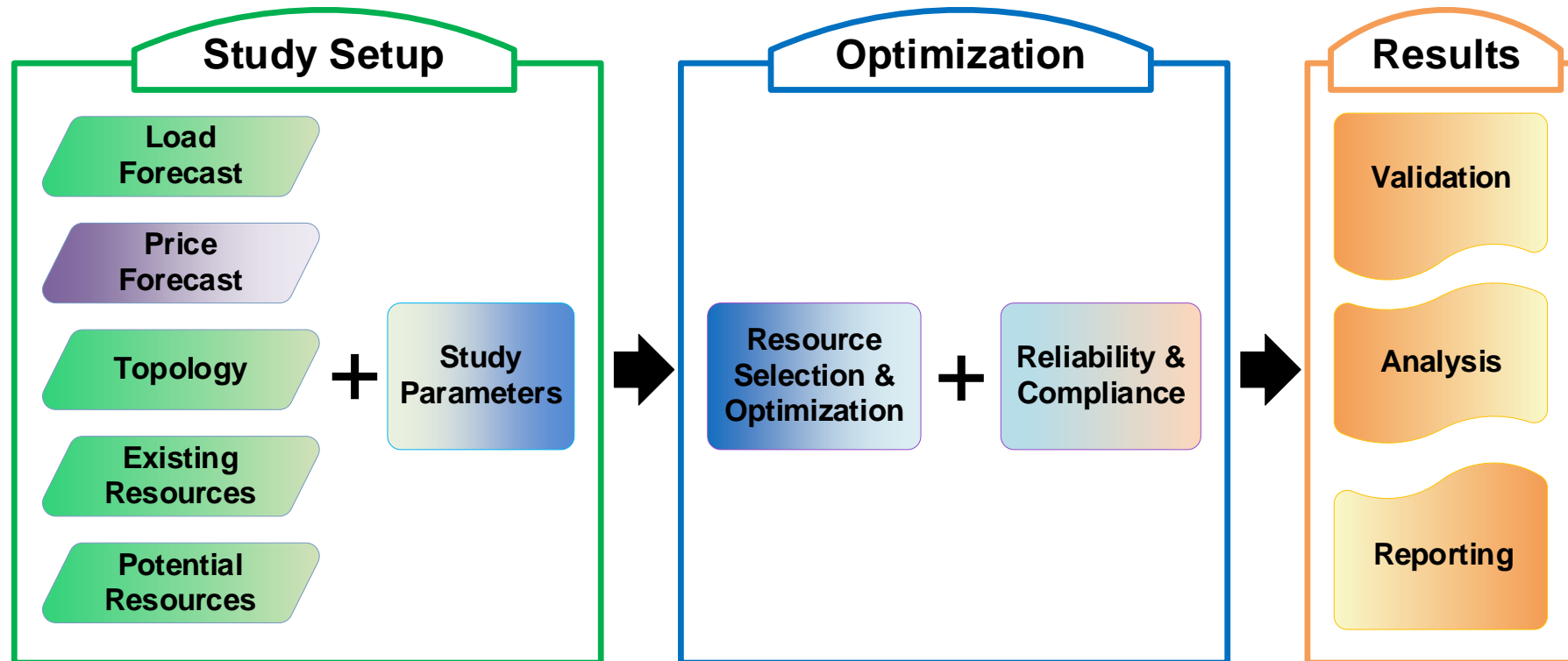
# Integrated Resource Planning and the CEIP

# Overview of PacifiCorp's IRP Development Process



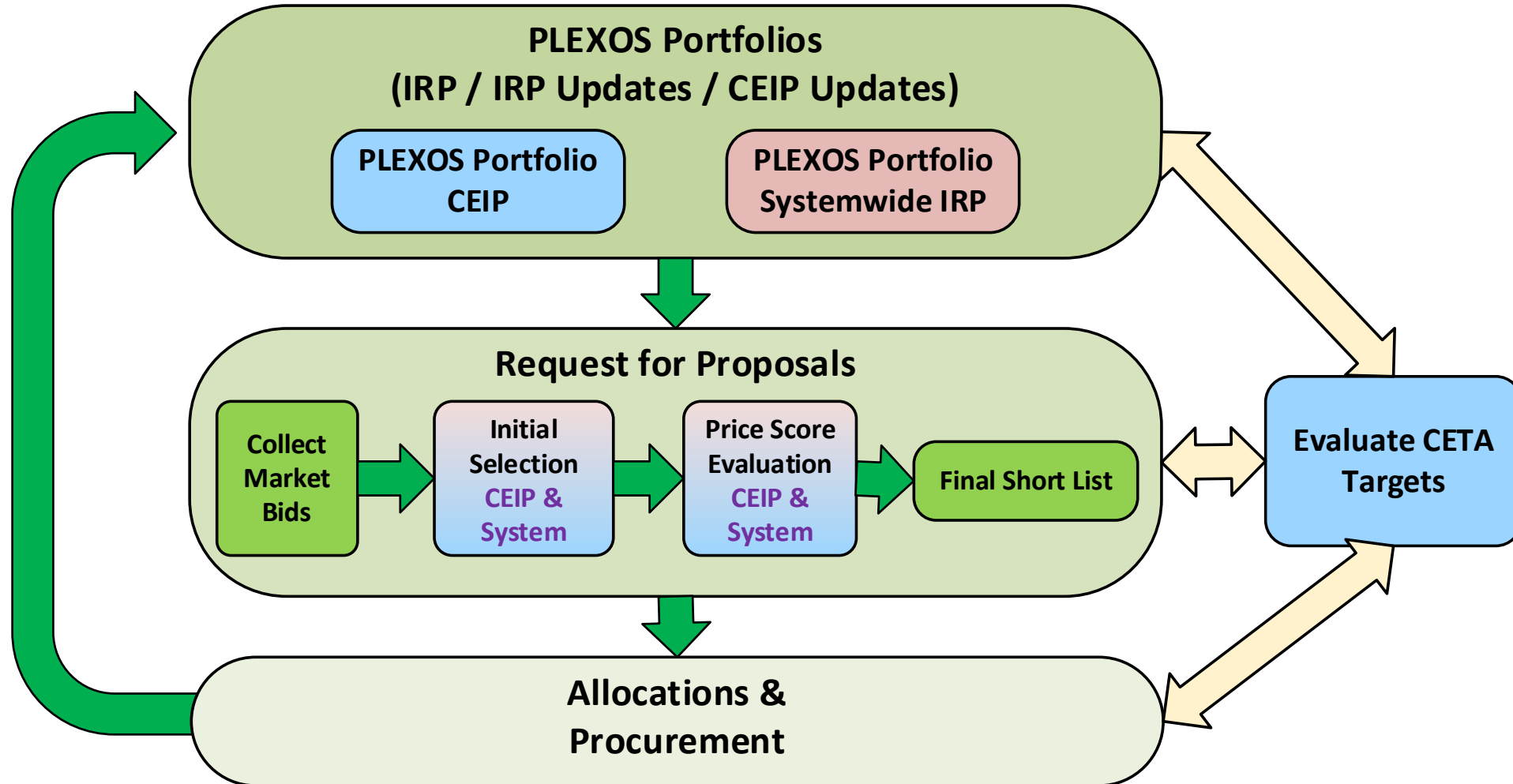
Learn more about PacifiCorp's IRPs at: [www.pacificorp.com/irp](http://www.pacificorp.com/irp)

# Integrated Resource Planning Updates





# Integrated Resource Planning updates and the CEIP



# Development of a CETA-Compliant Portfolio

1

Develop a systemwide portfolio optimized under the social cost of greenhouse gas price policy.

2

Washington-allocated generation outcomes are analyzed relative to CETA clean energy targets (2030 and 2045) and goals (no coal after 2024).

3

Final CETA-compliant portfolio is developed and identified, called W-10 CETA in the 2023 IRP and becomes the CEIP Portfolio.

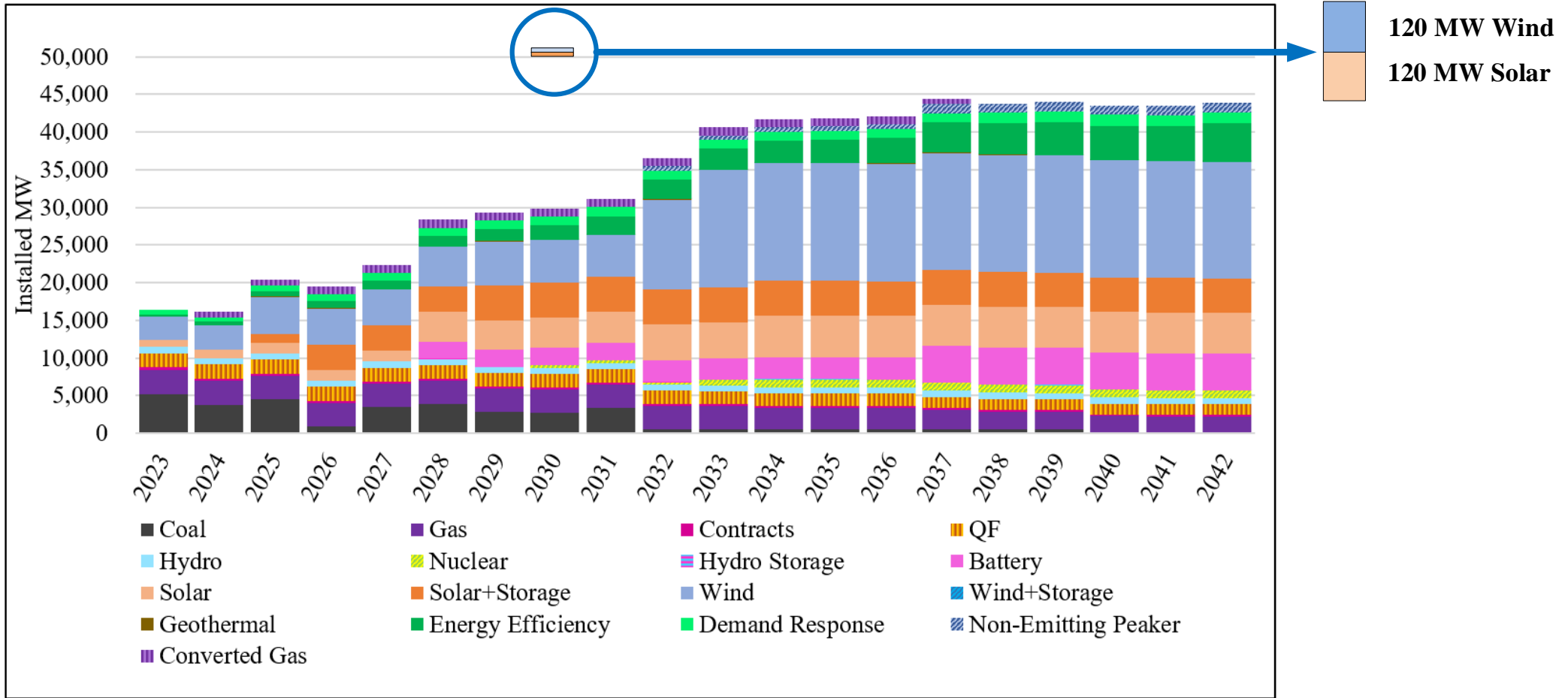
P-SC

- P-SC used as the base
- Identify compliance shortfalls in 2030 and 2045
- Add incremental situs renewable resources for WA

W-10 CETA

# Integrated Resource Planning and the CEIP

All Portfolio Resources: W-10 CETA (systemwide)



# Updated IRP modeling and Interim Targets



## Updated IRP Model Inputs & Assumptions:

- Load forecasts
- Price curves
- 2020 All-Source Request for Proposals (AS RFP)
- Other contracts
- Post-modeling state allocation assumptions

## Updated capacity expansion and dispatch outcomes:

- CEIP targets are energy based – any change to the optimal hourly dispatch order changes the annual forecast of renewable and non-emitting energy available to serve Washington retail sales
- Decrease in forecasted targets for 2024-25, resulting from higher loads, less renewable energy contracts, and state resource allocations
  - **Interim targets:** A series of interim targets that demonstrate how the utility will make reasonable progress towards meeting the clean energy standards. Interim targets are expressed as a percent of forecasted retail sales of electricity supplied by non-emitting and renewable resources prior to 2030, and from 2030 to 2045.
  - **Specific targets:** Specific targets are proposed for energy efficiency, demand response, and renewable energy for the CEIP planning period.

# Updated IRP Modeling & the Incremental Cost

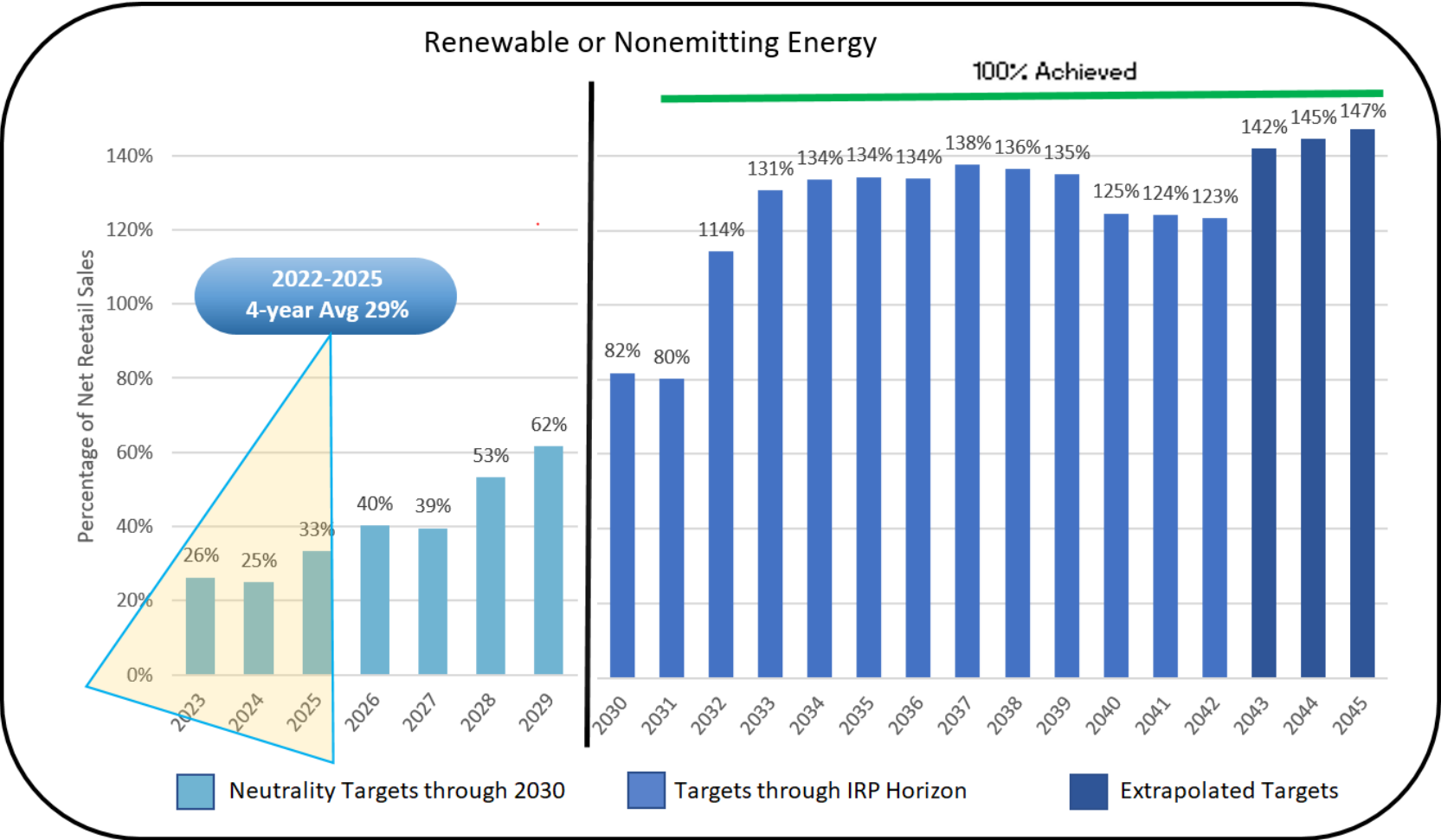
- The Washington IRP Two-Year Progress Report filed in March 2023 included an updated estimate for the incremental cost of CETA-compliance for 2023-2025
- There are **no substantial changes** in modeled incremental costs for the CEIP planning window and there were no estimated changes in non-modeled incremental costs, which will be reviewed again in the Biennial Update
  - There are no incremental resource additions necessary for CETA compliance in the 2023-2025 planning period, and thus no associated modeled incremental costs as shown in the 2021 CEIP Refile
    - Any forecasted differences between the portfolio costs are negligible and due to random model noise
  - Non-modeled incremental costs include things like administrative costs

# Updated IRP modeling and the Incremental Cost

\$-Millions	Compliance Year			
	2022	2023	2024	2025
Revenue Requirement				
<b>Fixed Costs</b>	-	-	(0.00)	0.00
Variable Costs				
Fuel Costs	-	(0.03)	0.03	(0.68)
Variable O&M	-	0.00	0.01	0.04
Energy Efficiency	-	-	0.00	-
Net Market				
Purchase	-	(0.04)	(0.12)	(3.11)
Emissions	-	0.54	0.10	2.16
Deficiency	-	-	(0.07)	(0.06)
<b>Total Variable Costs</b>	-	<b>0.47</b>	<b>(0.04)</b>	<b>(1.64)</b>
Administrative & General				
DSM Program	1.24	1.26	0.41	0.42
Costs				
Outreach Costs	0.40	0.37	0.36	0.37
Materials	0.01	0.01	0.01	0.01
Staffing	0.25	0.25	0.26	0.26
Data Support	0.17	0.17	0.18	0.18
<b>Total Revenue Requirement 2</b>	2.07	2.54	1.18	(0.39)
<b>Average Revenue Requirement</b>	<b>1.35</b>			

# Washington Clean Energy Implementation Plan – Interim and Specific Targets

# 2023 Biennial CEIP Update Interim Targets



2023 Biennial CEIP Updated Interim Targets (from 2023 IRP Filing)



# 2023 Biennial CEIP Updated *Interim* Targets

## Interim Compliance Targets (MWh)

	2022 <sup>1</sup>	2023	2024	2025	Total
Retail Electric Sales	4,051,128	4,128,751	4,141,107	4,106,386	16,427,372
Projected Renewable and Non-emitting Energy	1,262,111	1,081,277	1,028,236	1,367,667	4,739,291
<b>Net Retail Sales</b>	2,789,017	3,047,473	3,112,871	2,738,719	11,688,080
Target Percentage	31%	26%	25%	33%	
<b>Interim Compliance Target</b>	1,262,111	1,081,277	1,028,236	1,367,667	4,739,291

<sup>1</sup> Originally estimated target for 2022 based on Refiled 2021 CEIP, March 13, 2023

Note: The interim renewable and non-emitting targets are identical to the renewable energy specific targets during the CEIP planning window.

# CEIP Specific Targets – Demand Response

- Demand Response (DR) is new in the state, many unknowns remain:
  - Early phases of roll-out for programs, assessing uptake and barriers.
  - Just kicking off marketing and outreach in 2023, enrolling first customers.
  - Still learning what adoption rates and ramp-up will look like and how customers will interact with programs.
- Focusing on continued expansion and maintaining participation throughout the biennial period.
- Exploring new demand response programs such as electric vehicle (EV) managed charging and customer battery dispatch.

**Propose to continue to use 2021 CEIP DR**

**Target:**

**37.4 MW by end of 2025**

# CEIP Specific Targets – Energy Efficiency

- Energy efficiency targets are based on Energy Independence Act (EIA) targets used in the biennial conservation plan conducted every two years.
- Savings were originally characterized at the generator, but consistent with EE targets in EIA and DR targets in CEIP they should be at site.
- Update 2024-2025 EE target based on upcoming biennial conservation plan.

## Prior CEIP Target

Category MWh at Generation	2022	2023	2024	2025
Washington - first year Energy Efficiency from the IRP Preferred Portfolio	34,003	37,231	39,530	45,254
Behavioral Programs (HER)	4,414	(182)	4,414	(182)
RTF adjustments (total)	335	407	486	558
Adjusted Energy Efficiency Forecast - annual	38,752	37,456	44,431	40,579
Adjusted Energy Efficiency Forecast - Pro-rata	50,579	50,579	50,579	50,579
Co-Generation	-	-	-	-
Decoupling commitment - five percent	2,529	2,529	2,529	2,529
Annual Target	53,108	53,108	53,108	53,108
<b>2022-2025 target</b>				<b>212,431</b>

## Updated CEIP Target

Category MWh at Site	2022	2023	2024	2025
Washington - first year Energy Efficiency from the IRP Preferred Portfolio	31,871	34,651	37,517	43,803
Behavioral Programs (HER)	4,100	(169)	4,212	3,742
RTF adjustments (total)	313	378	(2,223)	(2,331)
Adjusted Energy Efficiency Forecast - annual	36,284	34,860	39,506	45,214
Adjusted Energy Efficiency Forecast - Pro-rata	47,089	47,089	40,613	40,613
Co-Generation	-	-	12	12
Distribution Efficiency	76	77	-	227
Production Efficiency	-	-	1	1
Decoupling commitment - five percent	1,818	1,747	1,976	2,273
Annual Target	48,983	48,913	41,494	47,726
<b>2022-2025 target</b>				<b>187,115</b>

# DSM: Energy Efficiency and Demand Response

# Draft 2024-2025 Targets, Energy Efficiency Forecast

Same as presented 8/31/2023:

Category	Targets	2024-2025 DSM Business Plan	Forecast % of Target
	Gross MWh Savings @site	Gross MWh Savings @site	
Energy Independence Act (EIA) Target	84,971	91,123	107%
Decoupling threshold	4,249		
Total Utility Conservation Goal	89,220	91,123	102%
Excluded programs (NEEA)	(10,132)	(10,132)	
Utility Specific Conservation Goal	79,088	80,991	102%
EIA Penalty Threshold (EIA Target minus NEEA savings)	74,839	80,991	108%
<b>EIA penalty threshold plus decoupling</b>	<b>79,088</b>	<b>80,991</b>	<b>102%</b>

\$ and PTRC updated slightly since 8/31/2023:

2024-2025 DSM Business Plan Savings and Expenditures Forecast		
	MWh @ site	\$
Residential efficiency programs	17,750	\$ 18,395,915
Non-residential efficiency program	63,013	\$ 27,426,680
Northwest Energy Efficiency Alliance (NEEA)	10,132	\$ 1,939,531
Distribution Efficiency	227	
Production Efficiency	1	
Portfolio expenses		\$ 1,553,887
<b>Total</b>	<b>91,123</b>	<b>\$ 49,316,013</b>
2024-2025 Total Portfolio Benefit Cost Ratios (including NEEA and Non-Energy Impacts) <sup>1</sup>		
PacifiCorp Total Resource Cost Test (PTRC)		1.52
Utility Cost Test		1.42

Business Plan is slightly higher than target subject to penalty

Goal is > 1; > 1 means benefits exceed costs

# Draft 2024-2025 Energy Efficiency Forecast

Forecast MWH/yr energy savings by program

Program or Initiative	MWH/yr at site	
	2024	2025
Low Income Weatherization (114)	180	180
Home Energy Savings (118)	4,411	5,026
Home Energy Reports	4,212	3,741
<b>Total Residential Programs</b>	<b>8,803</b>	<b>8,947</b>
Wattsmart Business (140) - Commercial	23,629	24,777
Wattsmart Business (140) - Industrial	6,761	6,481
Wattsmart Business (140) - Irrigation	672	692
<b>Total Business Programs</b>	<b>31,063</b>	<b>31,950</b>
Northwest Energy Efficiency Alliance	4,471	5,661
Distribution Efficiency	-	227
Production Efficiency	1	1
<b>Total Other Conservation Initiatives</b>	<b>4,472</b>	<b>5,888</b>
<b>Total Conservation</b>	<b>44,337</b>	<b>46,785</b>

Forecast energy efficiency program expenditures

Year	Incentives/direct benefits to customers \$ (million)	General implementation \$(million)	Total \$(million)
2024	\$ 14.19	\$ 9.76	\$ 23.95
2025	\$ 14.90	\$ 10.47	\$ 25.37

# Home Energy Savings - CEIP Utility Actions

## Clean Energy Transformation Act (CETA)

Utility Actions to increase Named Community customer participation

- **Highly Impacted Community customers**
  - Goal: continue to increase energy efficiency Customer Benefit Indicator (CBI) Metric results for households in Highly Impacted Communities, including those on Tribal Lands

- Expand and focus on direct-install duct sealing, smart thermostats, and lighting with focused effort on single family homes in Highly Impacted Communities.
- Increase the smart thermostat per unit cost paid to direct install contractors to address higher labor and product costs so they remain motivated to install as many units as possible.
- Introduce Low-E storm windows for homes with an emphasis on promoting to customers in Highly Impacted Communities during direct install visits.
- Continue enhanced incentives for customers in Highly Impacted Communities for all heat pumps.
- Launch a Community Based Distribution offering that provides LED bulbs to Highly Impacted Community Tribal customers at no cost. This program offering replaces the “value retailer” bulb buy-down.
- Customers in Highly Impacted Communities and contractors are able to confirm HIC status and eligibility for enhanced incentives through a web-based confirmation screening application.

	2024	2025
Total Home Energy Savings CETA Incremental Costs	\$219,476	\$228,892

# Home Energy Savings – CEIP Utility Actions

## Clean Energy Transformation Act (CETA)

Utility Actions to increase Named Community customer participation

- **Vulnerable Populations**
  - Renters
  - Spanish speaking (limited English)

### New/continuing program services, support, and enhanced incentives

- Continue enhanced incentives for windows in multi-family units on residential rate schedules.
- Continue no-cost direct install smart thermostats and residential lighting to renters living in multi-family units.
- ★ • **Launch a Community Based Distribution offering that provides LED bulbs to Vulnerable Population customers at no cost.** (This program offering replaces the “value retailer” bulb buy-down.)

### Outreach, marketing, communications to support customers that use Spanish as primary language

- Continue efforts to reach Spanish speaking customers through all aspects of program delivery including:
  - Customer facing staff fluent in Spanish
  - Pacific Power representation at cultural events, associations, community groups, and media
  - Provide communications, marketing, web, and program materials in Spanish



# Wattsmart Business – CEIP Utility Actions

## Clean Energy Transformation Act (CETA)

- **Utility Actions** to increase Named Community customer participation
  - Highly Impacted Community customers
    - Goal: continue to increase energy efficiency Customer Benefit Indicator (CBI) Metric results for businesses in Highly Impacted Communities, including those on Tribal Lands



**Continue to increase the number of businesses in Highly Impacted Communities and small businesses that participate** 2024-2025 results to be reflected in the energy efficiency CBI metrics

- Continue **enhanced customer incentives** for Small Businesses in Highly Impacted Communities and Very Small Businesses
- **Enhanced vendor incentives** - Continue to offer approved small business lighting vendors a higher vendor incentive for completed lighting retrofit projects with Small Businesses in Highly Impacted Communities and Very Small Businesses.
- **Targeted outreach**
  - Continue to target a portion of company initiated proactive outreach to Small Businesses in Highly Impacted Communities and Very Small Businesses; continue to tie proactive outreach to approved small business vendor capacity to respond to customer inquiries.
  - Target a portion of company initiated proactive outreach to business customers located on Tribal land.

**Continue development of program materials in Spanish; continue and increase outreach to *Latine* business customers, vendors and community groups.**

<b>Estimated CETA Incremental Cost:</b>	2024	2025
Estimated Incremental Cost of CETA utility action - Wattsmart Business - increased incentives for small businesses located in a Highly Impacted Community and very small businesses	\$ 122,461	\$ 127,786

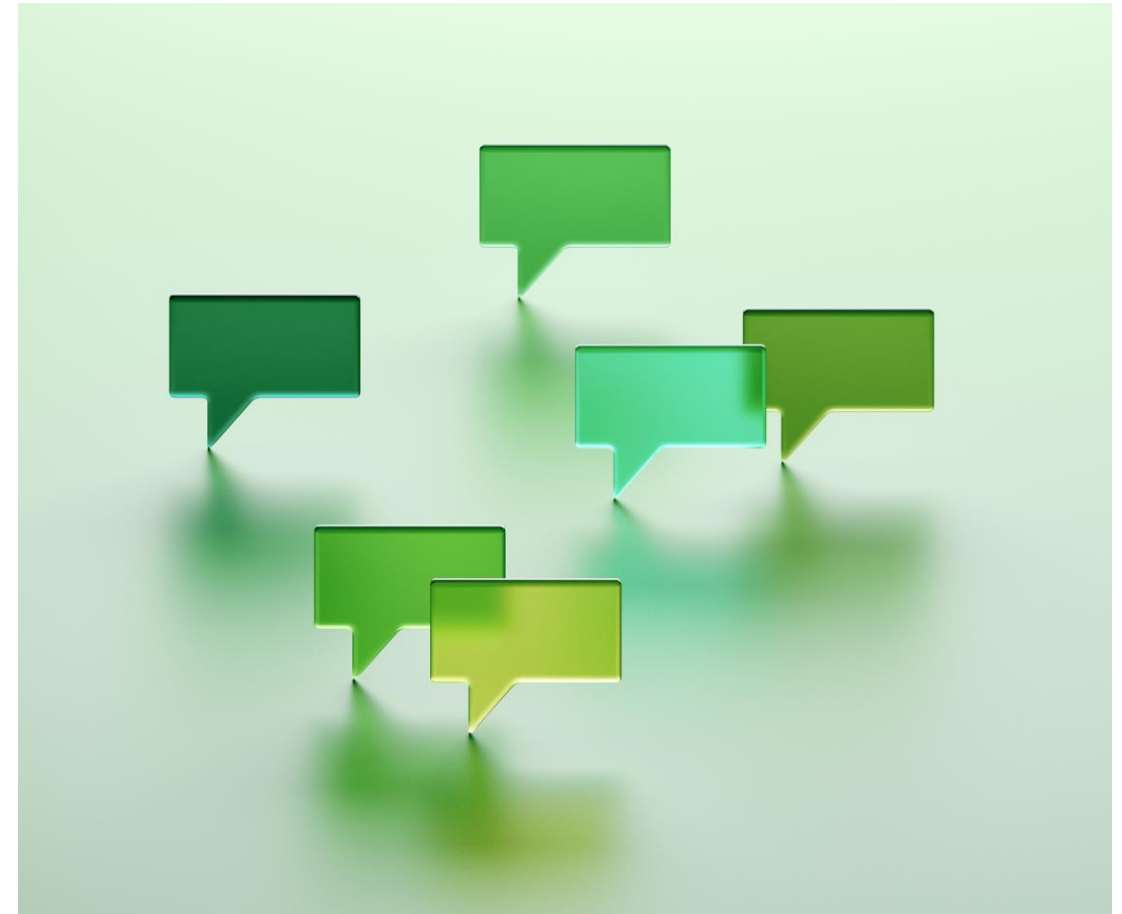
# Communications – CEIP Utility Actions

Selyna Bermudez

## Continue and improve on Utility Actions from 2022-2023 biennium

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 communications
  - As appropriate, include Spanish versions of collateral at community events that Pacific Power is sponsoring. Have interpreters and translated materials at public meetings.
  - ★ ○ Promote energy efficiency programs on appropriate Spanish-language media, directing customers to Spanish-language web pages and phone numbers. Where possible, use local, trusted messengers.



Communications utility actions continue from 2022-2023 plan; **change noted with a “star”**





# Low Income Weatherization – Clean Energy Implementation Plan Utility Actions

Charity Spires

## Continue Utility Actions from 2022-2023 plan, focus on low-income Vulnerable Populations

- Continue to allow reimbursement for **repairs** up to 30% 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 air as 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.

	2024	2025
<b>Incremental Cost of CETA utility action - Low Income Weatherization - additional funding for repairs and electric heat installations</b>	\$ 65,000	\$ 65,000

# Participation Tracking CEIP Utility Actions

Nancy Goddard

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

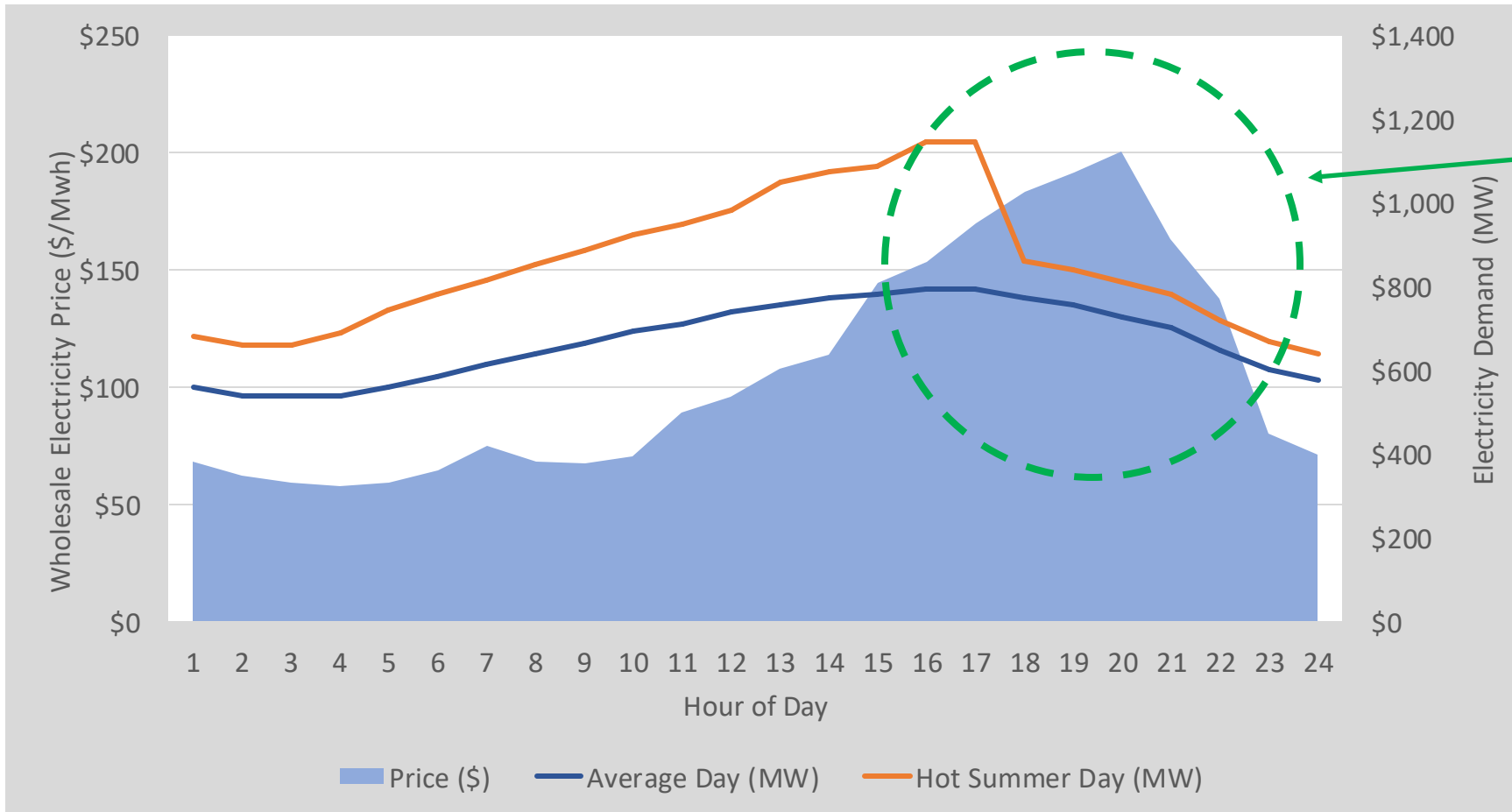
- CBI metric:
  - Participants located in a Highly Impacted Community, including Tribal lands
- Vulnerable Population:
  - Language - Participants whose primary language is other than English
  - ★ Ask question for the **household** starting in 2024
  - Renters
  - ★ Participants where the **home is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

## Example DR Impact



Demand response programs give customers incentives to reduce usage during peak hours, increasing the efficiency and reliability of the grid.

# Update on 2022-2025 Demand Response Actions

In the 2021 CEIP, PacifiCorp pledged to create a portfolio of 5 demand response programs.

Irrigation Load Control	Active, customers enrolled
Commercial & Industrial	Active, customers enrolled
Residential	Pre-launch, expecting to enroll customers in Q4 2023
EV Managed Charging	RFP issued
Batteries	In development, RFP expected in 2024



# Irrigation Load Control



This program works with farmers to shut down irrigation pumps during periods of high demand in the summer agricultural season. The program offers 22-minute, 60-minute, or 24-hour notice, at different incentive levels.

- Approved August 2022 (expanding pilot)
- Incentives vary based on available load and notice requirement
- 13 customers, 104 sites, and 3.8 MW enrolled to date
- 5 events called in 2023

# Commercial and Industrial Curtailment



C&I Curtailment focuses on connecting large end use loads active throughout the year, available with 7, 20, 60-minute or 24-hour notice. The program uses a two-way communication device that gives PacifiCorp and participants real time data on energy use at the meter.

- Approved January 2023
- Incentives vary based on available load and notice requirement
- 14 MW enrolled to date
- 5 events called in 2023



# Optimal Time Rewards



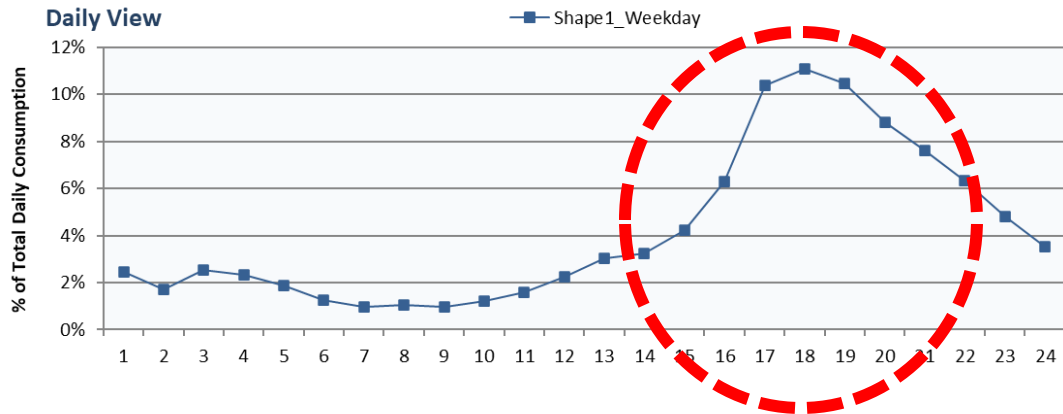
This program controls heating load by connecting to smart thermostats, and electric or heat pump water heater load through program-provided WiFi-enabled devices. The program design focuses on large multifamily properties for water heater enrollment.

- Approved June 2023
- Smart thermostats: \$50 to enroll, \$25 annually
- Water heaters: \$25 to enroll, \$25 annually
- Enrollment expected to begin in Q4 2023

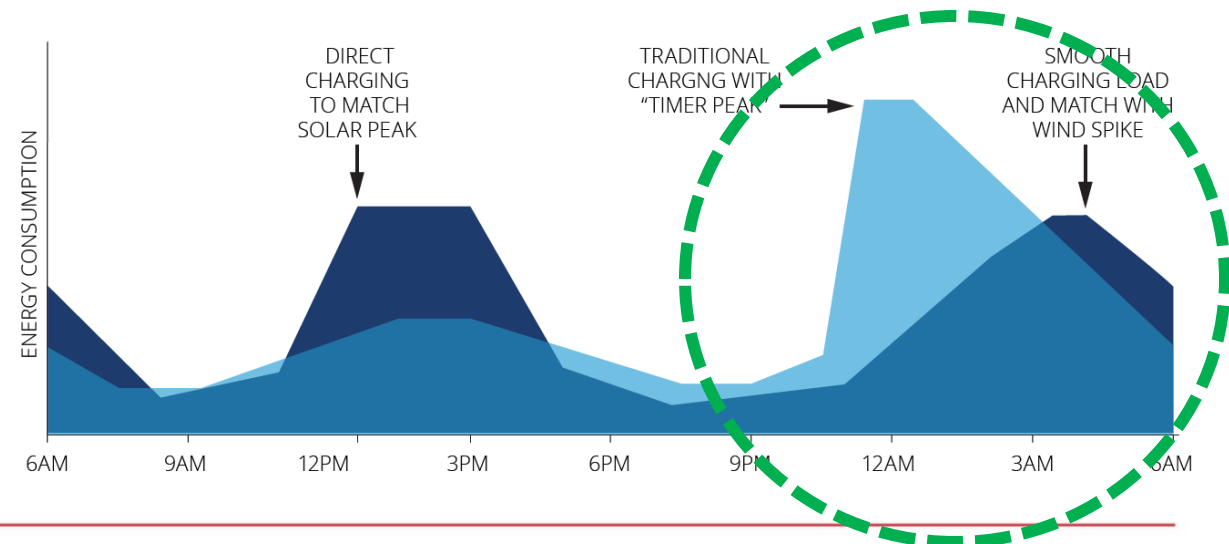
# EV Managed Charging Pilot

- Electric vehicle (EV) owners who participate will agree to allow their EV charging to shift to off-peak hours
- PacifiCorp will control the EV charging via either EV telematics or chargers (“EVSE”), similar to bring-your-own-thermostat (BYOT) demand response programs
- PacifiCorp will pay participants financial incentives upon sign-up and then seasonally or annually for ongoing, “active” participation, allowing for a degree of opt-outs and maintaining minimum charging threshold

**Pre** – most residential charging occurs after work, coinciding with peak hours



**Post** – residential charging is “flexed” to evening / overnight hours, outside peak



# EV Managed Charging Pilot

- **RFP is live, proposals due 10/31/23**
- PacifiCorp submitted an informational filing for the RFP in WUTC [Docket UE-220359](#)
- PacifiCorp invites any and all qualified bidders to submit proposals, including diverse suppliers. Please share widely if you know of any interested firms:
  - Interested bidders should email [DemandResponse@pacificorp.com](mailto:DemandResponse@pacificorp.com) to be put on bidders' list and receive registration instructions
- Diversity, Equity, and Inclusion is an important selection criteria in the RFP– PacifiCorp anticipates finding a vendor with track record of creating program benefits for named communities

Exhibit A-  
Scope of Work  
and  
Request for Proposal Requirements

Residential Electric Vehicle  
Managed Charging  
Pilot Program, 2024-2026+



# Public Comment

# Appendix

# Washington Clean Energy Implementation Plan Engagement

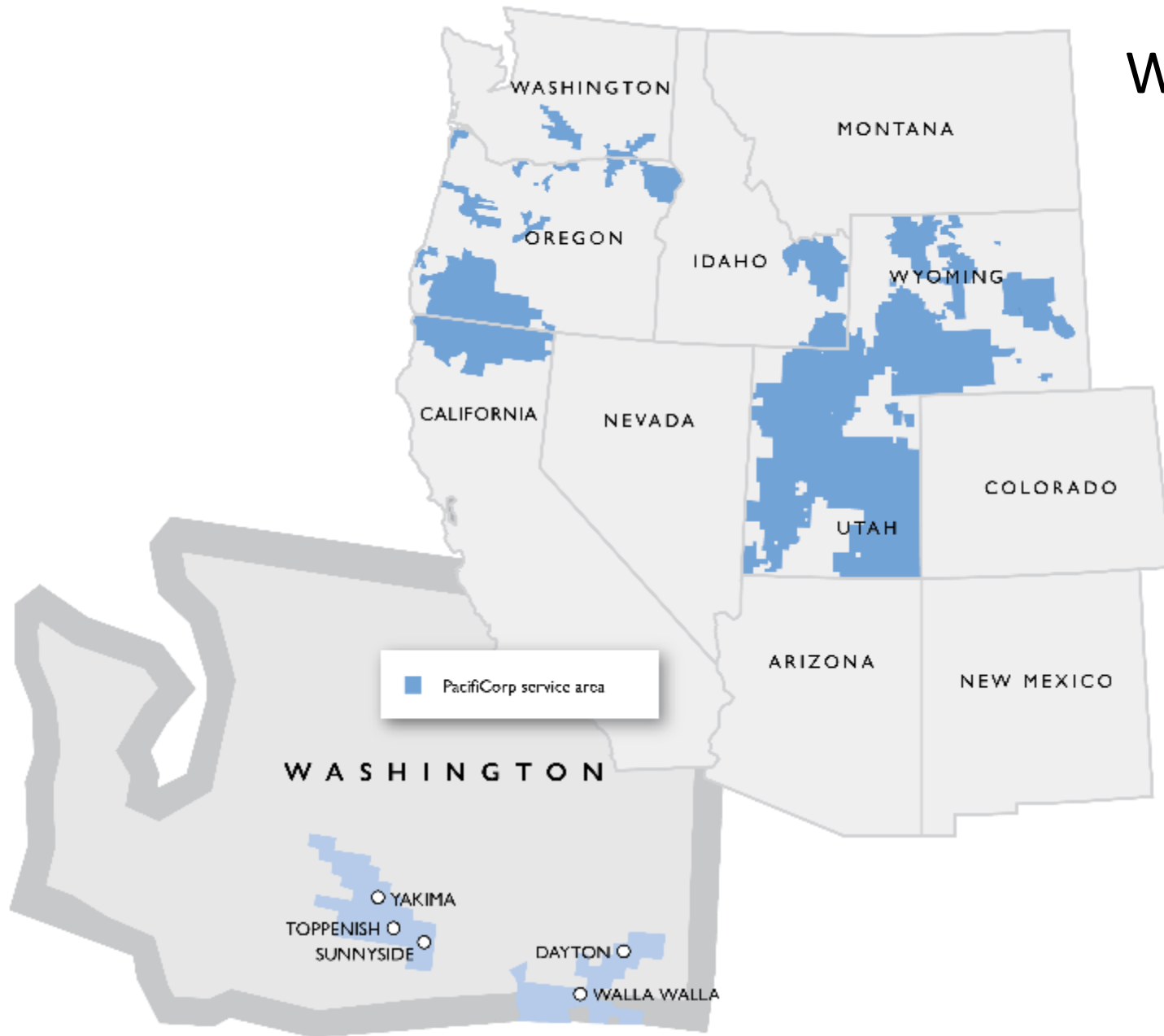
# Where Do We Provide Service?

Approximately 1.9 million customers across 6 states

- **Rocky Mountain Power** serves Utah, Idaho, and Wyoming customers.
- **Pacific Power** serves Oregon, Washington and California customers.
- **Pacific Power in Washington** serves approximately 137,000 customers throughout Benton, Columbia, Garfield, Kittitas, Yakima, and Walla Walla counties.

## Washington Service Area Demographics

- 43% Hispanic or Latino vs 13% Statewide
- 33% Speak language other than English at home vs 19% Statewide
- 12% impoverished vs 7% Statewide
- 15% of employed population in the agricultural, forestry, fishing, hunting and mining sector vs 3% Statewide



# How Do We Serve You?



Our **geographic diversity** means that we can provide access to **low-cost renewable energy** where it is most productive throughout the Western United States – decarbonizing our grid and prioritizing affordability.



**Wind** facilities located in the highest-producing areas such as Eastern Wyoming, Eastern Oregon, Eastern Washington, and Montana.



**Solar and energy storage** facilities in the highest producing areas such as Utah and Oregon.



With over 16,900 line-miles of **high-voltage transmission** spanning 10 states and a range of climate zones.



In Washington, Pacific Power has **programs** that help offset the cost of electricity for customers and that provide weatherization and energy efficiency services.



# What Is CETA?

## 2019 Law: The Clean Energy Transformation Act (CETA)

- Washington customers will be served by 100% renewable and non-emitting energy by 2045.
- As the transition to a cleaner grid occurs, utilities will prioritize an equitable distribution of benefits.
- Each utility made a Clean Energy Action Plan (CEAP) and a Clean Energy Implementation Plan (CEIP) to outline these plans.

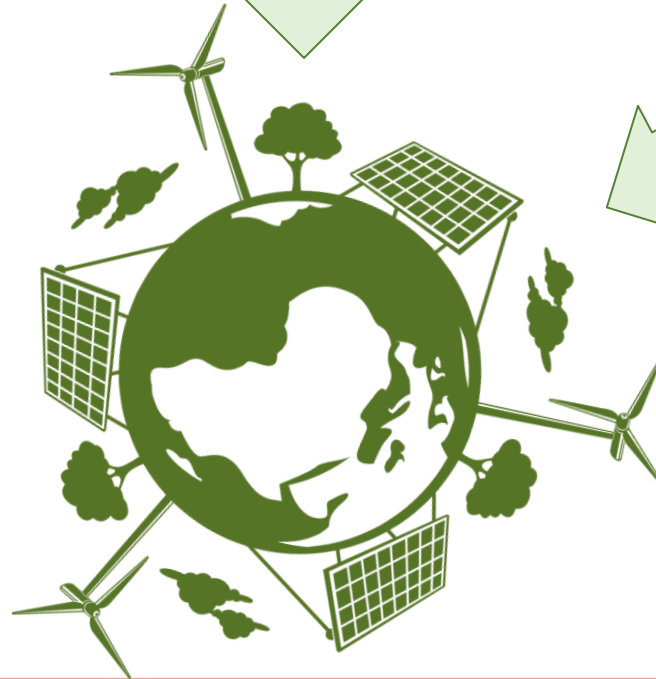


# CETA Targets

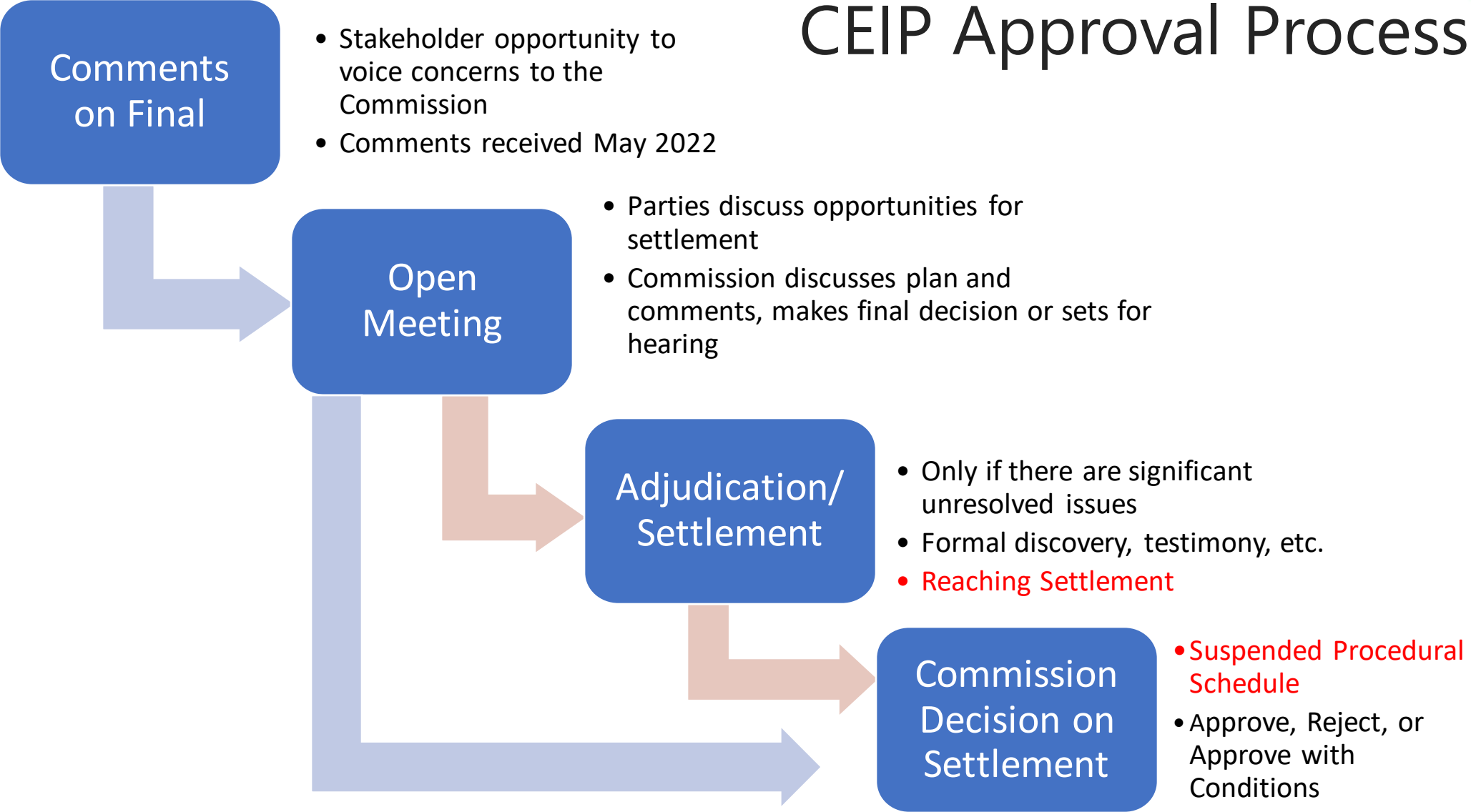
By the end of 2025, each utility must remove coal-fired resources from its allocation of electricity to Washington retail electric customers

Beginning in 2030, each utility must ensure all retail sales of electricity to Washington electric customers are greenhouse gas neutral

Beginning in 2045, each utility must ensure that non-emitting electric generation and electricity from renewable resources supply 100% of all retail sales of electricity to Washington electric customers.



# CEIP Approval Process



# Biennial Update

- PacifiCorp will file its biennial update on the CEIP in November
- The original CEIP was filed in December 2021, based on the 2021 IRP
- PacifiCorp's update (consistent with the March 2023 CEIP refiling) adjusts targets based on the 2023 IRP, filed May 31, 2023, and several changed factors
  - Delay in reaching agreement on a new allocation methodology
    - CEIP assumed we would have a new methodology by 2024
  - The rate impact of continuing high energy market prices
    - PacifiCorp forecasts customer savings of \$72 million from using the Jim Bridger and Colstrip generation until the CETA coal deadline
  - Resource repricing during procurement
    - 2020 AS RFP COVID/Supply Chain issues resulted in bid repricing and a limited number of new resources for 2024/2025