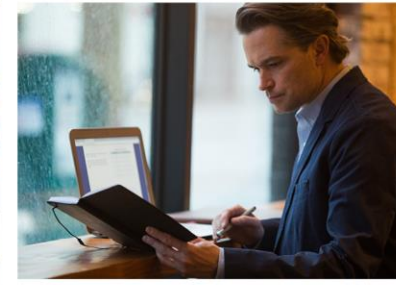


Clean Energy Transformation Act

Washington Equity Advisory Group (EAG)

July 2023 Meeting

July 13, 2023



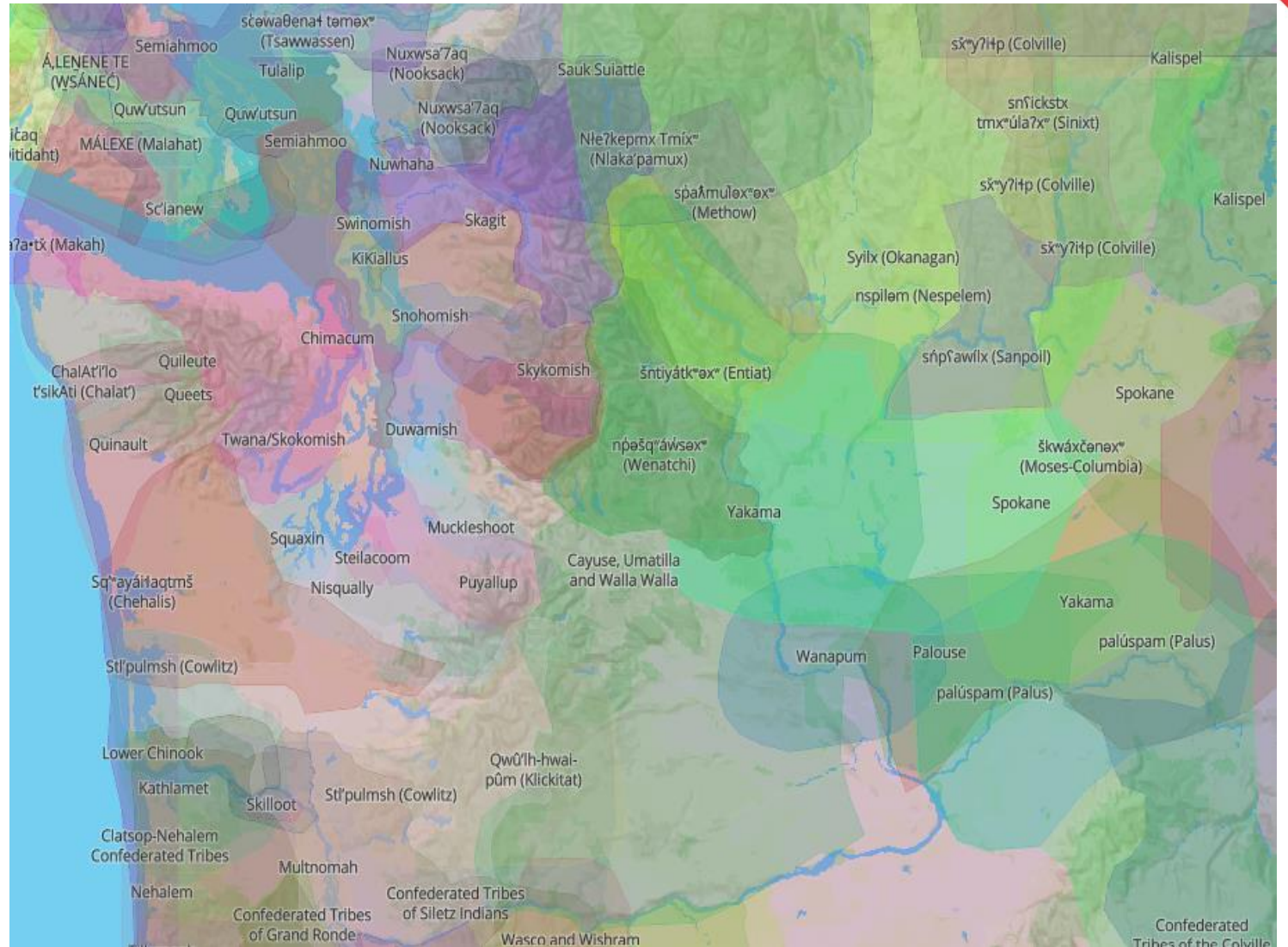
Land Acknowledgement

We hold respect and gratitude for the Indigenous people who have been and still consider themselves to be the caretakers of the biodiversity of the regional land and water. We take this moment to honor the Indigenous communities of the past, present, and future.



Native Land Digital

Source: [Native-Land.ca](https://native-land.ca) | [Our home on native land](https://native-land.ca/our-home-on-native-land)



Clean Energy Transformation Act

1-4 pm PT, July 13, 2023

Agenda

TIMING	TOPIC
1:00 pm	Land Acknowledgement Objectives & Presenters
1:15 pm	Regional Lens – Sustainable Living Center
1:30 pm	Check In, Community Calendar
1:40 pm	WA Clean Energy Implementation Plan
2:00 pm	Customer Benefit Indicators Progress
2:30 pm	Developing our Customer Benefit Indicators through an Interactive Exercise
3:00 pm	BREAK
3:10 pm	Communications Customer Benefit Indicator Update
3:20 pm	Non-Energy Impacts
3:40 pm	Public Comment
3:45 pm	Check Out, Summary & Next Steps

For a Better Meeting Experience



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



For technical support, chat "Tag Galvin-Darnieder/ 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

Objectives

1. Inform our regional lens by learning from the Sustainable Living Center
2. Provide WA Clean Energy Implementation Plan updates
3. Review Customer Benefit Indicator (CBI) progress
4. Begin to explore and develop CBI trajectory through an Interactive Exercise
5. Understand non-energy benefits and impacts

Presenters



Laura James
PacifiCorp
Sr. Project Manager,
Customer and Community
Solutions



Selyna Bermudez
PacifiCorp
Sr. Communications
Representative



Erendira Cruz
Executive Director
Sustainable Living



Peter Schaffer
PacifiCorp
Manager, Customer Program
Planning and Development



Stephanie Meeks
PacifiCorp
Regulatory Manager



Morgan Westberry
E Source Facilitator

The Sustainable Living Center

Equity Advisory Group Meeting

July 13, 2023

What is Sustainability?

Sustainability means meeting the needs of the present while ensuring that future generations have the same opportunities. This is accomplished through the stewardship of resources: economical, ecological, and socially equitable.



Self-awareness – Gratitude - Reciprocity

Beginnings



Photo by Brett Jordan on Unsplash

- 2001 Northwest Renewable Energy Festival
- 2005 Year-Round physical presence as Sustainable Living Center

Mission: *To conserve resources for the future by encouraging and facilitating sustainable living practices in our community*



Where are we Today?

Board of Directors:

Todd Blackman, President

Betsy Russell-Carroll, Vice President

Tom Osborn, Treasurer

Karen Yager, Secretary

Outreach and Education



- Public Workshops
- Farmers Market and Community Events
- Grant Projects
- Community Partnerships

Builders ReSupply

Michael Bogard, Store Supervisor

- Feasibility study and store opening funded through a grant from the US Environmental Protection Agency
- Opened Fall 2010
- Diverts over 35-50+ tons of materials from the landfill annually
- Win-win-win for the community
- Volunteer opportunities



\$mart Business Partners

Sandra Cannon, Program Coordinator

- Began in 1991 as Green Seal Business Program
- Free program helps businesses and organizations save money by focusing on the reduction of water, energy, waste and materials
- Public recognition via door decals and awards



Community Energy Efficiency Program (CEEP)

- Began in 2009 with ARRA funds
- Administered by Washington State University Energy Program
- Provides a low-cost home energy audit and makes recommendations for upgrades
- Helps fund qualifying upgrades



Local IMPACT 2021 - 2023:

- 473 Customers
- 275 Home Energy Audits
- 195 Completed jobs via 39 local contractors
- Incentive payouts \$596,000
- Customer matching dollars \$1,265,000
- Utility Rebates \$347,500
- TOTAL \$\$ for work completed:

\$2,187,000

Solar Rebates

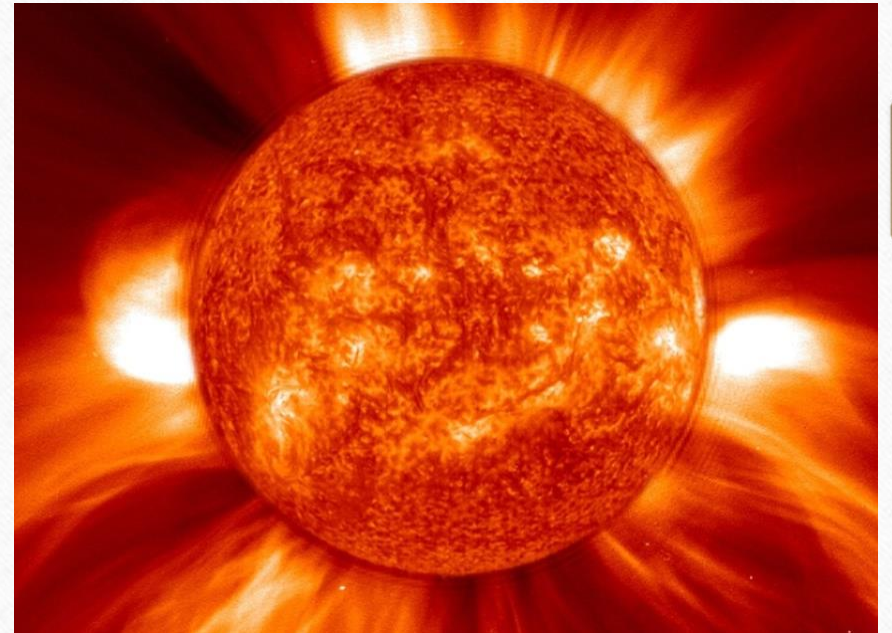
The PNW, especially our Region, is well suited for PV and thermal solar

PROS:

- Federal Tax Credit
- Can include battery backup
- WA State - no sales tax
- Favorable Financing Options
- Net metering agreements

CAUTIONS:

- High upfront cost
- Existing conditions (home orientation, landscaping, etc.)
- Solar contractors must be vetted



Walla Walla Valley Farm to School

- Began in 2007 as an effort by parents to increase healthy, local foods into school meals
- Farm to School is a National effort that focuses on three goals:
 - Education (students and teachers)
 - Local procurement for school meals
 - School garden support
- Currently support 8 gardens in four school districts (WWPS/AW/MF) the Pride Garden at Children's Home Society, and a garden at the Juvenile Justice Center
- Walla Walla Valley Farm to School became a program of the SLC in August of 2019



Check-In

Check In Question

Who is someone you look up to and why?



Community Calendar

July 2023							
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
25	26	27	28	29	30	1	
						88th Annual Toppenish Rodeo & Parade(ALL DAY) - at 600 S. Division St. Toppenish, WA 98948	
2	3	4	5	6	7	8	
Downtown Yakima Farmer's Market 9am-1pm @ 15 W Yakima Ave, Yakima, WA 98901				Downtown Summer Nights 5:30pm-9pm at North Front Street, Yakima, WA 98901		Downtown Walla Walla Farmer's Market 9am-1pm @ 106 West Main StreetWalla Walla, WA, 99362	
9	10	11	12	13	14	15	
Viva La Musica ConcertSeries @ Miller Park and Martin Luther King Jr Park (Yakima) - 5pm-7pm				Online - Washington Equity Advisory Group Meeting 1pm-4pm (PST)		Downtown Walla Walla Farmer's Market 9am-1pm @ 106 West Main StreetWalla Walla, WA, 99362	
16	17	18	19	20	21	22	
Downtown Yakima Farmer's Market 9am-1pm @ 15 W Yakima Ave, Yakima, WA 98901				Downtown Summer Nights 5:30pm-9pm at North Front Street, Yakima, WA 98901		Downtown Walla Walla Farmer's Market 9am-1pm @ 106 West Main StreetWalla Walla, WA, 99362	
23	24	25	26	27	28	29	
Downtown Yakima Farmer's Market 9am-1pm @ 15 W Yakima Ave, Yakima, WA 98901			BIPOC Business Licensing Day @ OIC-HBCC 1211 S. 7th St, Yakima, WA 5pm-7:30pm	Downtown Summer Nights 5:30pm-9pm at North Front Street, Yakima, WA 98901		Downtown Walla Walla Farmer's Market 9am-1pm @ 106 West Main StreetWalla Walla, WA, 99362	
30	31	Notes					
							Boost eBikes (Yakima & Zillah)
							Blue Mountain Action Council Impact Report
		College Place Farmers Market (Thursdays) @ 625 S College AveCollege Place, WA 99324 4pm-7pm					

Clean Energy Implementation Plan

WA Clean Energy Transformation Act (CETA) 2019

Requirements:



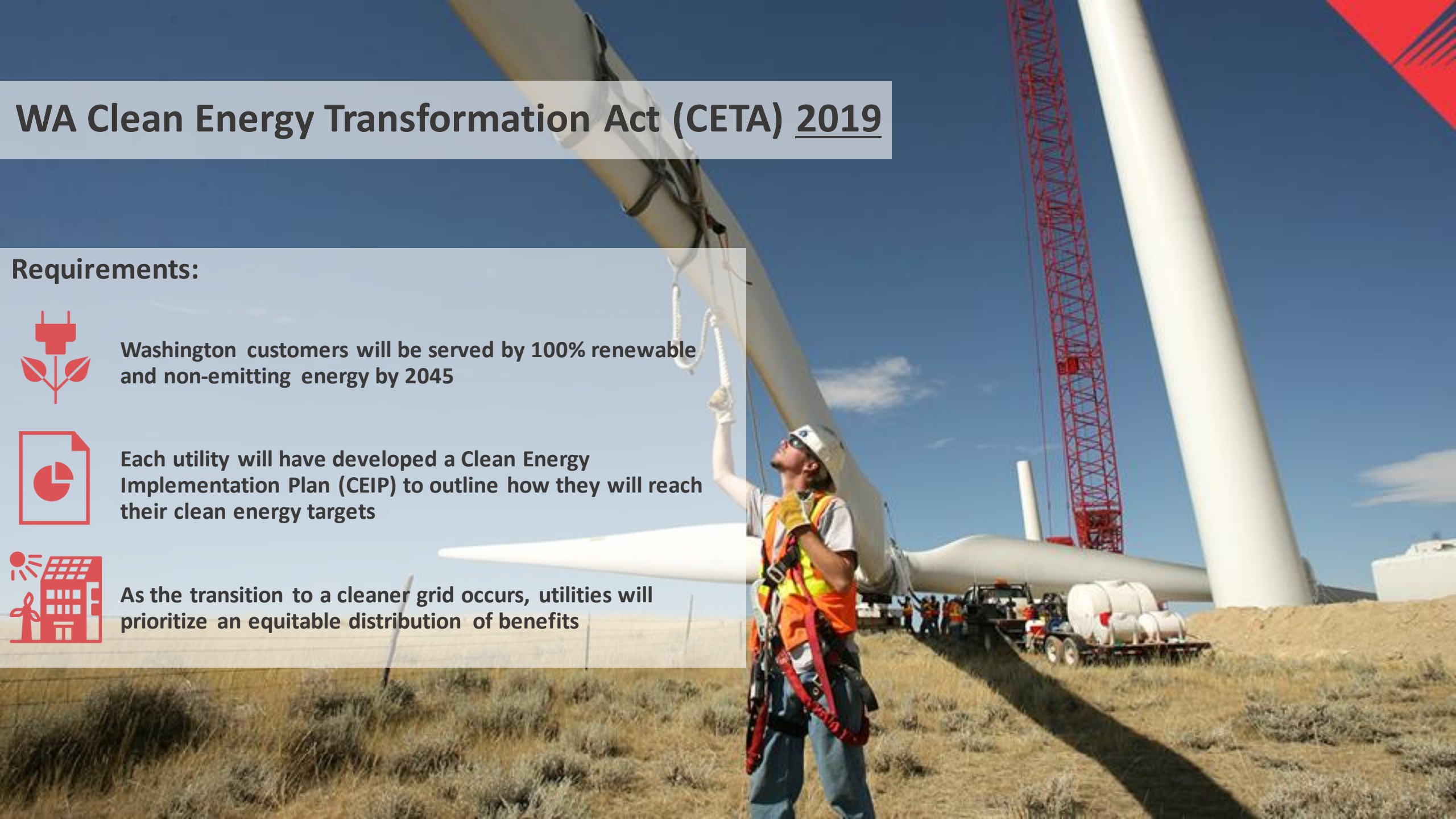
Washington customers will be served by 100% renewable and non-emitting energy by 2045



Each utility will have developed a Clean Energy Implementation Plan (CEIP) to outline how they will reach their clean energy targets



As the transition to a cleaner grid occurs, utilities will prioritize an equitable distribution of benefits



CEIP Approval Process

Clean Energy Implementation Plan Timeline



CEIP Filings

2023 CEIP Public Participation Plan – filed May 1, 2023

Update on our participation plan on our engagement spaces for outreach, timing, methods, addressing barriers, and providing accessibility for participation to seek feedback

Link: [210305-WA UE-210305 PAC-PPP-5-01-23.pdf \(pacificorp.com\)](#)

1st Annual Clean Energy Progress Report – filed July 3rd

Informational annual clean energy progress report regarding our progress in meeting its targets during the preceding year, this year is focused on 2022

Interim Targets and Specific Targets: renewable target, energy efficiency, and demand response
Additionally, we provided an update on customer benefit indicators (CBIs) and public participation plan

Link: [210829-PAC-CEIP-2023-Progress-Rpt-7-3-23.pdf \(pacificorp.com\)](#)

CEIP Biennial Update – file November 1, 2023

File an update on our CEIP for any determined targets and CBIs

There will be a meeting in August and an additional one ahead of the November filing

Clean Energy Implementation Plan (CEIP) Engagement Series

The ***Clean Energy Implementation Plan Engagement Series*** will provide a space for joint consultation among Pacific Power's various Washington advisory groups, stakeholders, and members of the general public. Participants will have the opportunity to provide input on elements of PacifiCorp's developing CEIP, CEIP updates, Demand-Side Management activities, as well as other topics determined by PacifiCorp. We hope this addition will help foster shared understanding of complex clean energy planning topics as well as provide additional pathways for meaningful engagement and input.

- Date: Thursday, August 31st
- Time: 12:30 p.m. – 4:00 p.m. (Pacific Time)
- Where: [Online \(Zoom\)](#)
- Who: Open to the Public



Clean Energy Implementation Plan Annual Progress Report: Customer Benefit Indicators

PacifiCorp Customer Benefit Indicators

CBI		Metric(s)
1	Increase culturally and linguistically responsive outreach and program communication	<ul style="list-style-type: none"> • Outreach in non-English languages • Percentage of responses to surveys in Spanish
2	Increase community-focused efforts and investments	<ul style="list-style-type: none"> • Workshops on energy related programs • Headcount of staff supporting program delivery in Washington who are woman, minority, or can show disadvantage for energy efficiency programs with exception to low income • Number of public charging stations in named communities
3	Increase participation in company energy and efficiency programs and billing assistance programs	<ul style="list-style-type: none"> • Number of households/businesses, including named communities, who participate in company energy/efficiency programs • Percentage of households that participate in billing assistance programs • Number of households/businesses who participate/enroll in demand response, load management, and behavioral programs
4	Improve efficiency of housing stock and small businesses, including low-income housing	<ul style="list-style-type: none"> • Number of households and small businesses that participate in company energy/efficiency programs • Energy efficiency expenditures
5	Increase renewable energy resources and emissions	<ul style="list-style-type: none"> • Amount of renewables/non-emitting resources serving Washington • Washington allocated greenhouse gas emission from Washington allocated resources • Number of public charging stations in named communities
6	Decrease households experiencing high energy burden	<ul style="list-style-type: none"> • Number of customers suffering from high energy burden by: highly impacted communities, vulnerable populations, low-income bill assistance (LIBA) and Low-Income Weatherization participants, and other residential customers
7	Improve indoor air quality	<ul style="list-style-type: none"> • Number of households using wood as primary or secondary heating
8	Reduce frequency and duration of energy outages	<ul style="list-style-type: none"> • System Average Interruption Duration Index (SAIDI), System Average Interruption Frequency Index (SAIFI), and Customer Average Interruption Duration Index (CAIDI) at area level including and excluding major events
9	Reduce residential customer disconnections	<ul style="list-style-type: none"> • Number of residential customer disconnections including disconnections within named communities

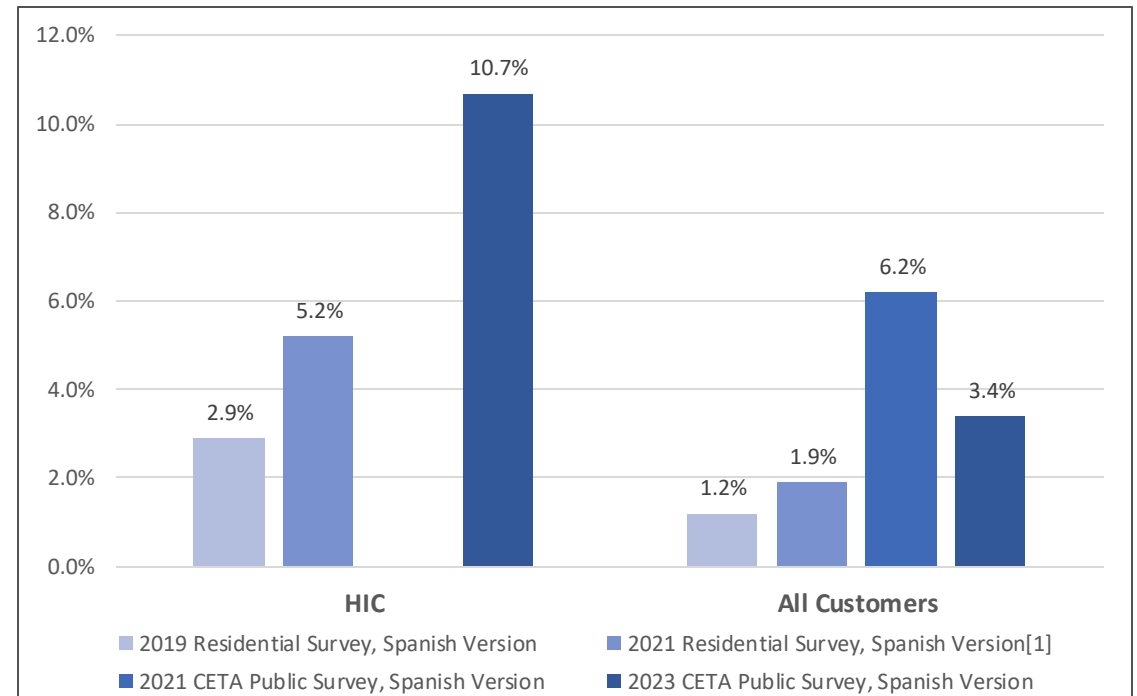
Pacific Power is committed to proactively increasing access and better communicating with the 30.7% of Spanish speaking households within its' Washington service area.

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
Total	17	43

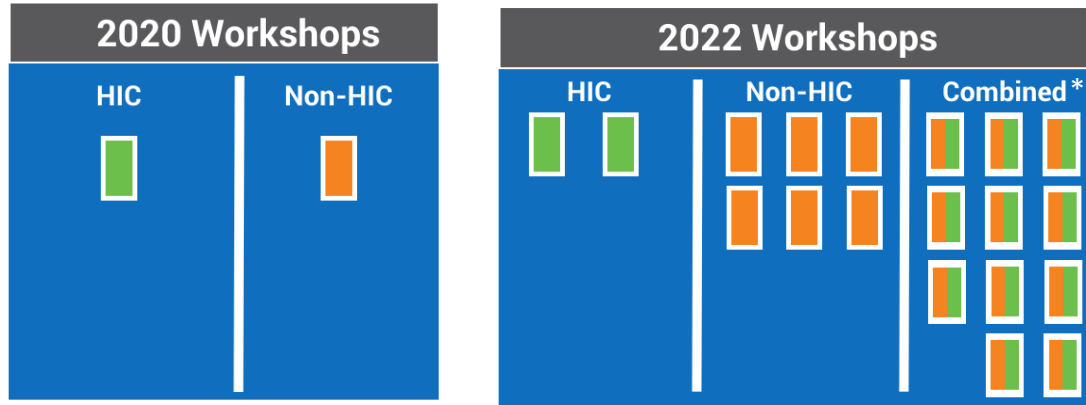
Culturally & Linguistically Responsive Outreach

Spanish-Language Survey Responses



Pacific Power's Community-Focused Efforts & Investments

Community Workshops



2020 Event Types:

- Vendor training(s)

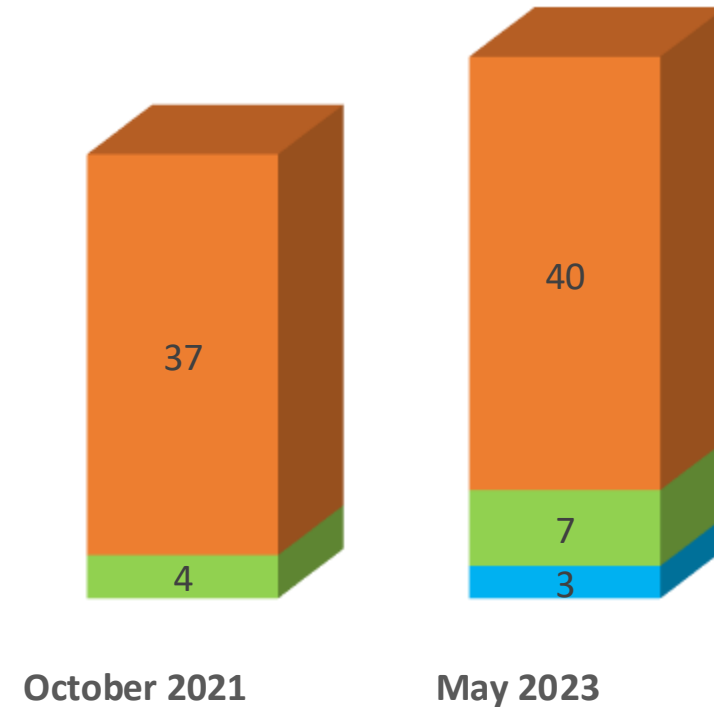
2022 Event Types:

- 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*

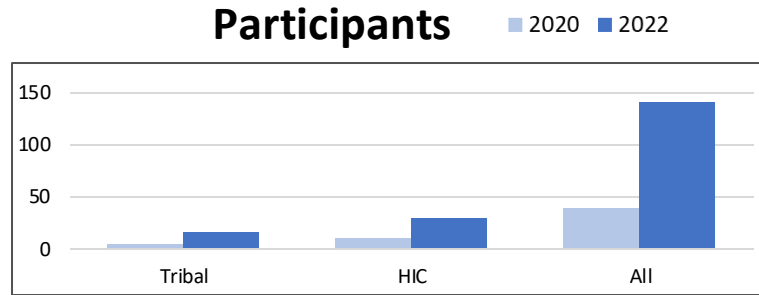
Public EV Chargers Installed

■ Tribal ■ Non-Tribal HIC ■ Non-HIC

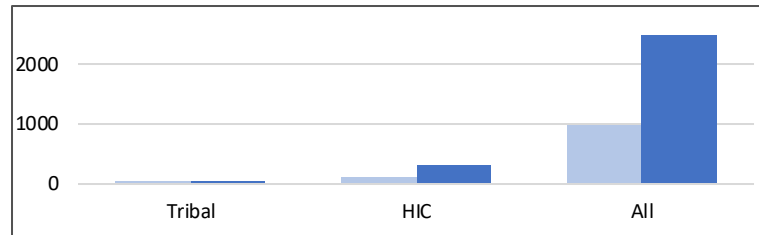


Energy & Efficiency Program Participation/ Efficiency of Buildings

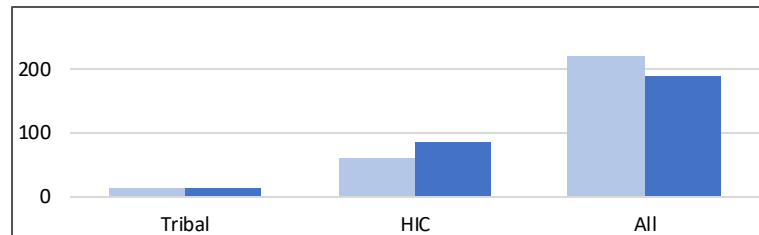
Low Income Weatherization



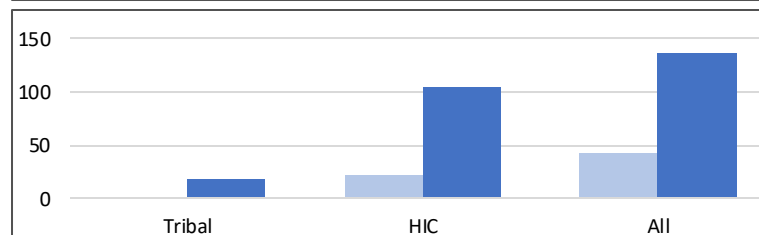
Home Energy Savings



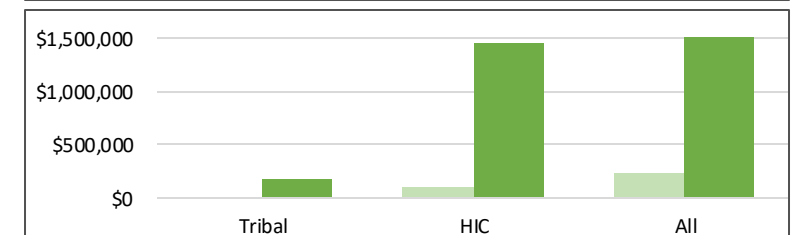
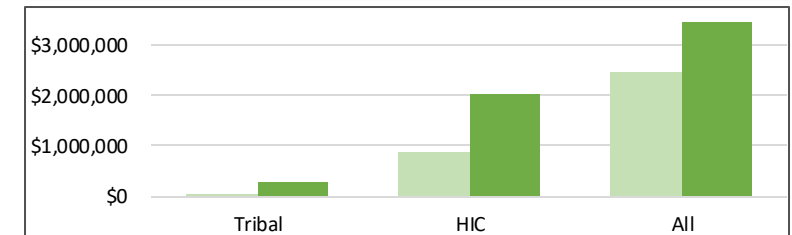
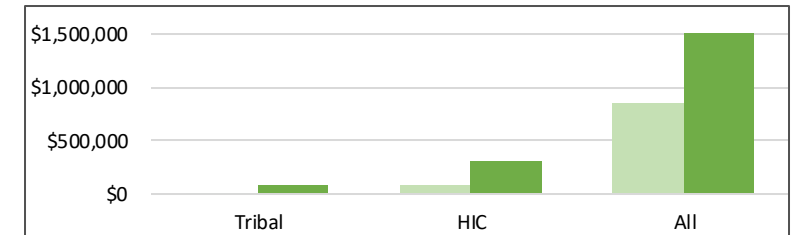
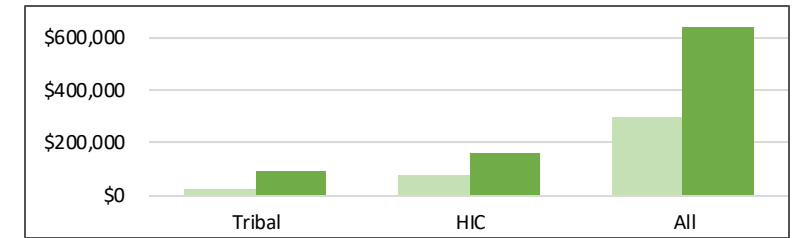
Wattsmart Business



Wattsmart Small Business

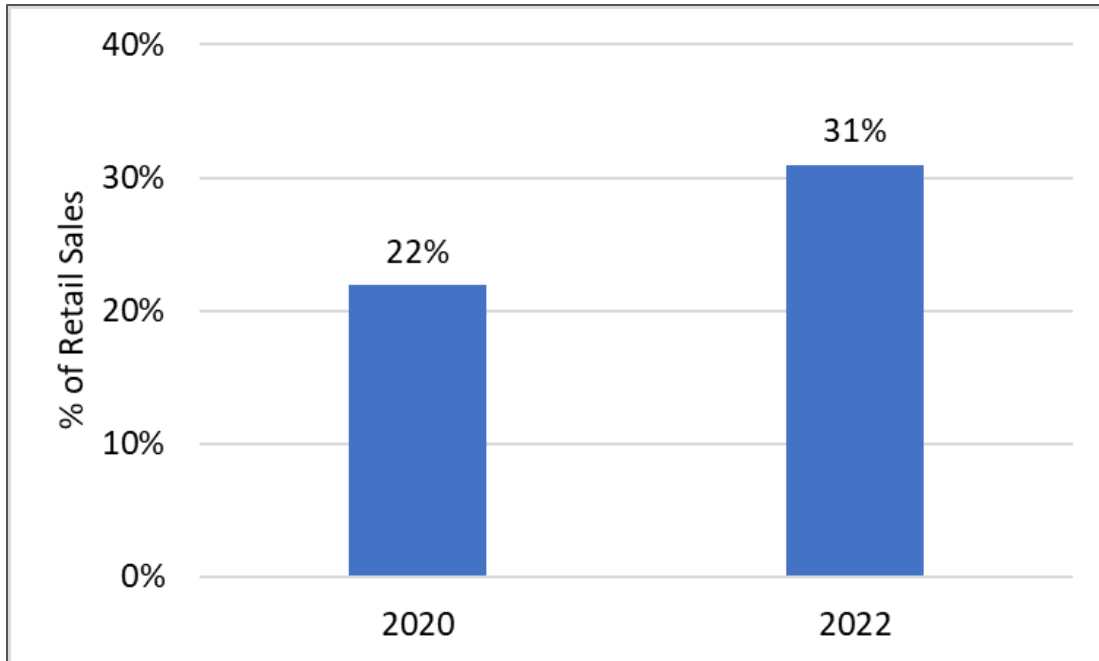


Expenditures

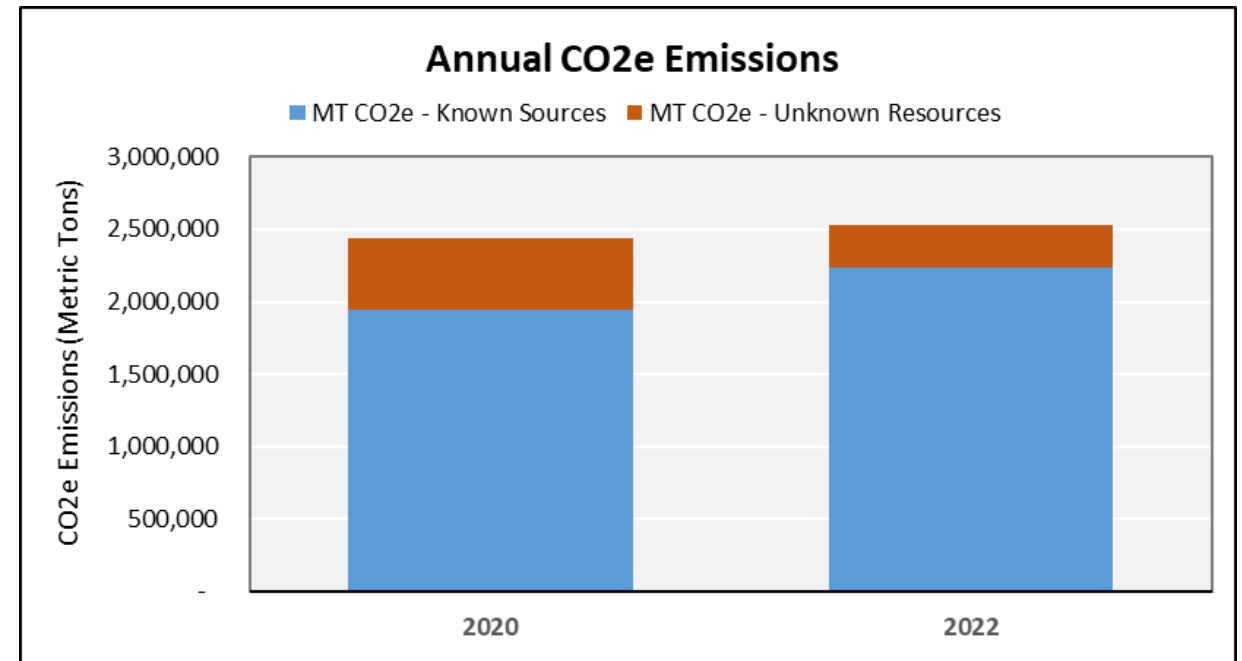


Renewable Energy Resources & Emissions

Retail Sales Served by Renewable and Non-Emitting Energy Resources

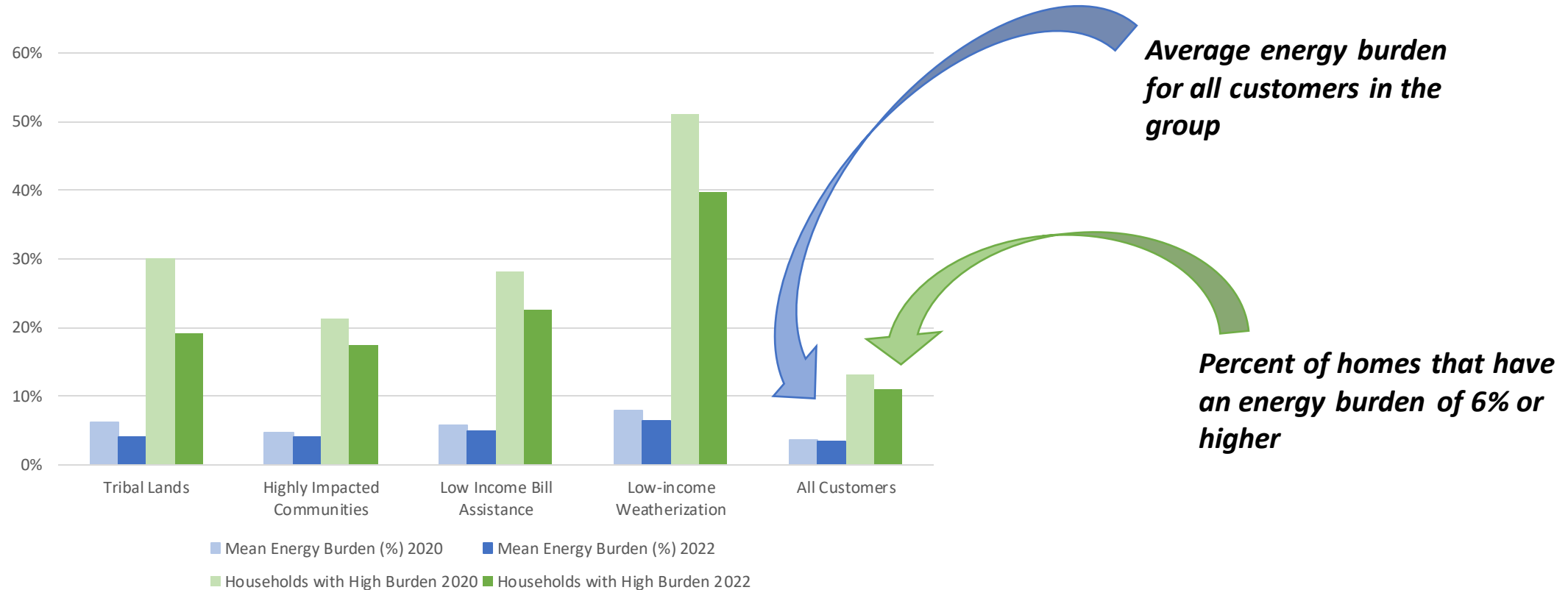


Greenhouse Gas Emission from Washington Allocated Resources



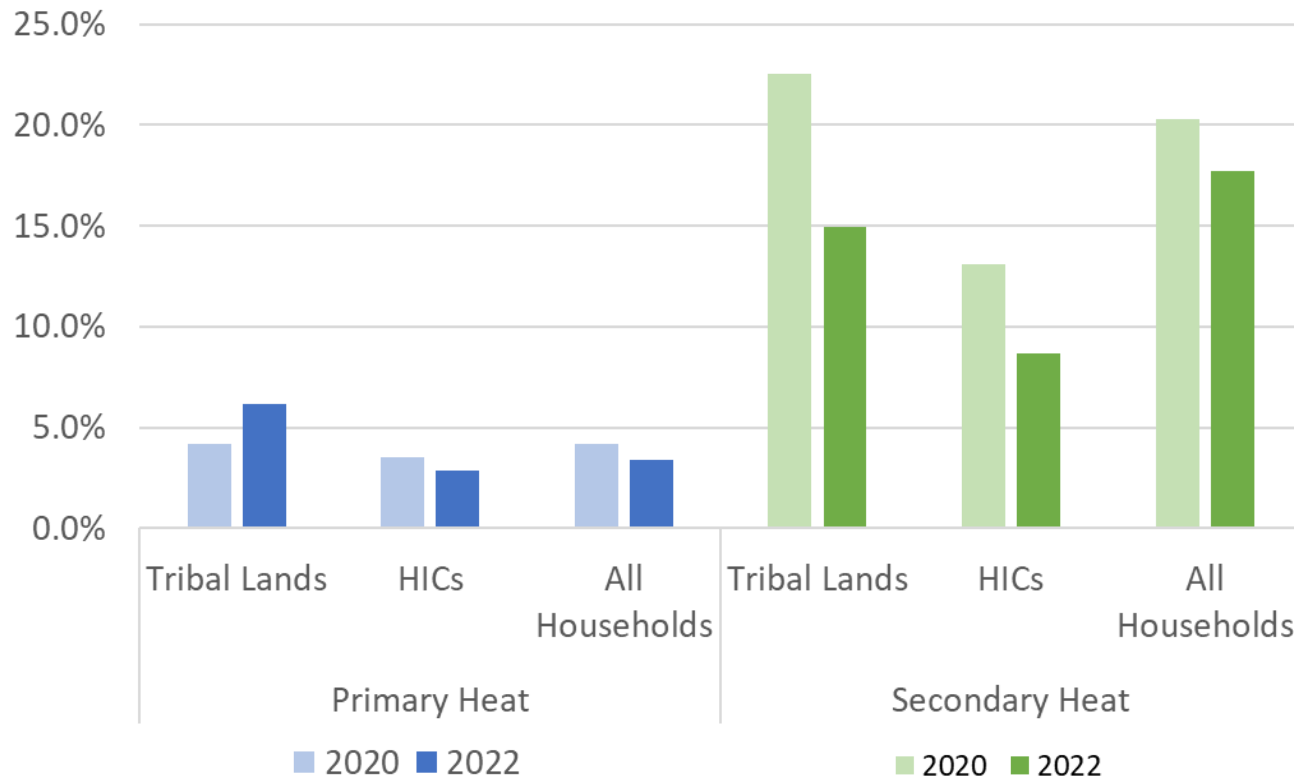
High Energy Burden

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 measured categories and seeks opportunities to further access.

Residential Customer Disconnections

	Tribal Lands		HIC		All Customers	
	2019	2022	2019	2022	2019	2022
Number of Residential Disconnections	157	0	657	1	1,375	9
Percent of Customers Experiencing a Disconnection	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

Developing Our Customer Benefit Indicators

Interactive Exercise

Interactive Activity – CBI Development

Purpose:

Create an open dialogue around the CBIs and how they can evolve to provide more positive outcomes for the communities we serve. Input will be used to inform the November CEIP Biennial filing.

Activity Goals:

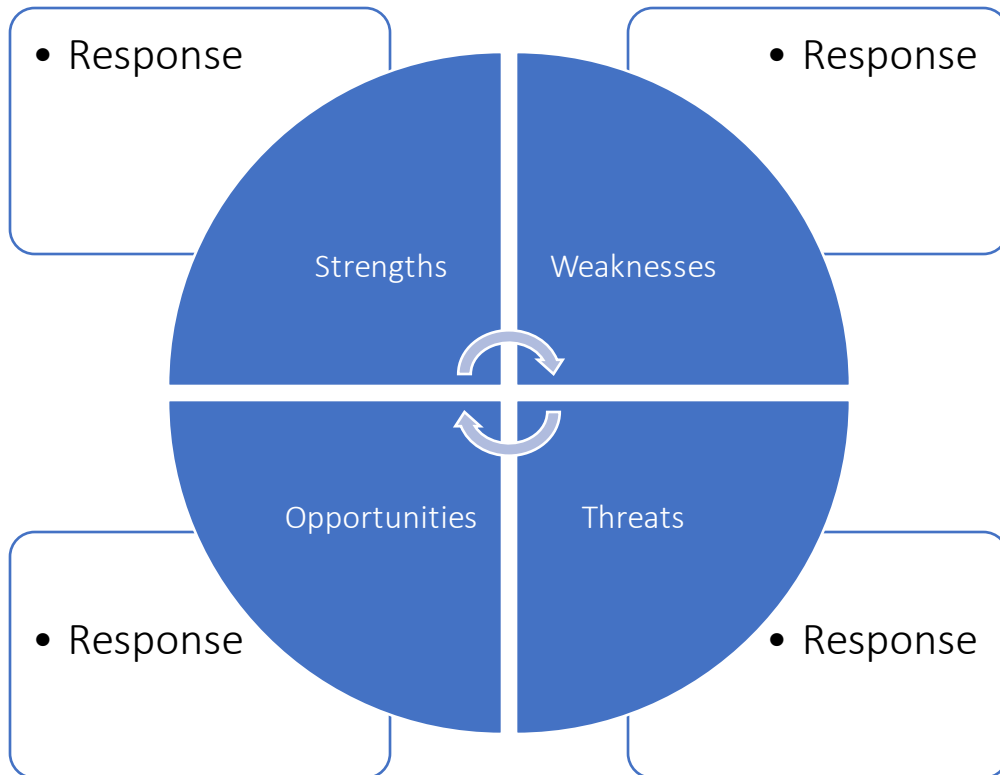
1. Discussion of CBIs
2. Evaluate 3 CBIs (the rest will be analyzed at future meetings)
3. Collectively review and discuss the results of the activity

A **SWOT analysis** is a collaborative tool used to examine the current state of a group, organization or item to identify and devise a successful strategy for the future.

S STRENGTHS	W WEAKNESSES	O OPPORTUNITIES	T THREATS
Examples: <ul style="list-style-type: none">• Things one does well• Qualities that stand out• Internal resources	Examples: <ul style="list-style-type: none">• Things that the one could improve on• Things that other groups succeed at• Resource limitations	Examples: <ul style="list-style-type: none">• Emerging technologies• Underserved communities & needs• Coverage	Examples: <ul style="list-style-type: none">• Changes in regulatory framework• Climate-related risks• Technical or funding limitations

Interactive Activity – Customer Benefit Indicators

CBI: _____



1. What are the **strengths**?
2. What are the **weaknesses**?
3. What **opportunities** exist to expand or evolve?
4. What **threats** can you identify?

Break

Communications: CBI Update

Key Findings

2022 Washington LIBA (English and Spanish)

Online advertising or digital display	663,996 Impressions
Radio	1,636,472 Impressions
Cinema	66,405 Impressions
Newspaper	421,500

2022 Washington Wattsmart Residential

Social media ads	1,891,088 Impressions
Online advertising or digital display	2,764,103 Impressions
Television	700,706 Impressions
Radio	4,500,300 Impressions

2022 Washington Wattsmart Business

Social media ads	1,287,301 Impressions
Online advertising or digital display	1,127,498 Impressions
NPR Live Reads	375,589 Impressions
Radio	236,473 Impressions

Moving Forward...



Completing and analyzing the Wattsmart residential earned-media pilot campaign in July



Transitioning to develop a Wattsmart business earned-media pilot campaign



Continuing to participate in more community outreach events and work with community partners



Increasing access through Spanish language communications and digital outreach

Pacific Power Actions

INCREASE OF SPANISH-LANGUAGE COMMUNICATIONS



EXPANDED LOCAL COMMUNITY OUTREACH



DIGITAL OUTREACH



EMBRACING MULTICULTURAL MARKETING



NEW TRANSCREATION PARTNER



How can Pacific Power better track and improve upon the following Communications metric:

1. Culturally and linguistically responsive outreach and program communication.

WA Non-Energy Impacts

Non-energy impacts (NEIs)

the accounting for impacts of energy efficiency beyond energy savings, for example, water savings, reduced replacement costs, and health and safety costs.

Pacific Power, in conjunction with other WA IOUs, hired a contractor (DNV) to conduct a literature review on non-energy impacts. These quantified NEI values are applied to current (and future) measures in our portfolio.

Currently, NEIs make up approximately **15%-20%** of overall portfolio value in cost-effectiveness valuation.

Non-Energy Impacts

Estimated Non-Energy Impacts for CEIP Targets

Program (2022-2026)	NEI (\$)
Low Income Weatherization	\$495,672
Home Energy Savings	\$9,160,974
Home Energy Reports	\$0
Wattsmart Business	\$17,586,509
Northwest Energy Efficiency Alliance	\$1,021,151
Total Conservation	\$28,264,306

Boise, Idaho weather assumptions used for each outage event (45 events)

9 WEATHER SCENARIOS	5 OUTAGE DURATION EVENTS				
	Short: 6-12 hours (Daily high or low)	Medium: 12-36 hours (Daily average)	Long: 36-72 hours (3-day average)	Extended: 72+ hours (5-day average)	Extended Rolling Blackouts (5-day average)
Hottest Weather (1% annual occurrence)	111	94	91	90	90
Extremely Hot (10% annual occurrence)	108	91	88	87	87
Very Hot (90% annual occurrence)	99	84	81	79	79
Typical Summer	88	73	73	73	73
Mild Weather (average daily temperature 55-70)	75	65	65	65	65
Typical Winter	25	33	32	32	32
Very Cold (90% annual occurrence)	11	21	23	25	25
Extreme Cold (10% annual occurrence)	-12	-1	1	3	3
Coldest Weather (1% annual occurrence)	-25	-16	-13	-11	-11

Used Larson/Sharp extreme weather files as starting point to build weather file.

NEIs: Building Resilience

Building Resilience

the ability for buildings to prepare for, mitigate, and recover from the negative occupant and/or physical impacts of infrequent—but extreme—events (e.g., extreme weather and/or electricity grid outages)

Apex Analytics' Resilience Valuation Tool

- Formed for the Regional Technical Forum
- Is the first iteration of quantifying resilience benefits for energy efficiency
- Released February 2023
- Tailored version will be used by Pacific Power to reflect our Washington service area.

- *Preservation of health and safety (heat/cold stress)*
- *Preservation of property (freezing pipes)*

NEIs: Building Resilience Approach



- Applies to efficiency measures that don't require power. For example, insulation or duct sealing.



- Examines resilience within a home, instead of only grid resilience or non-residential buildings



- Cost based approach which assess the value of maintaining comfort by estimating the avoided cost of having to supply backup power.



Energy Inefficient

An inefficient home requires more energy to maintain temperature during outage versus an efficient weatherized home.

NEIs: Building Resilience Steps

Step 1

Define resilience events using Pacific Power data and weather files.

Step 2

Estimate annual resilience event hours.

Step 3

Estimate avoided cost of backup electricity.

Step 4

Estimate building impacts for average event.

Step 5

Calculate annual resilience benefits on a per kWh or per home basis.

NEIs: Building Resilience Results

Potential Improvements:

Consider **expanded** modeling of resilience benefits associated with extreme weather events.

Results:

For a package of weatherization measures we assume a value of \$240 per home. For a single weatherization measure such as insulation, we assume a value of \$0.18 per kWh of savings.




Other than insulation and weatherization,
what other activities should be considered
for **building resiliency**?

Public Comment

What is your biggest takeaway from today's conversation?

Washington Equity Advisory Group 2023 Meeting Schedule

Date / Time / Meeting Format	Proposed Agenda Topics*
January 12th, 1pm-4pm (PST) Online	Washington Rate Case; Craft3 WA Home Energy Loan Program Community Connections
February 9th, 1pm-4pm (PST) Online	Wattsmart Small Business Lighting (Utility Actions Update) Demand Response Core Concepts WA Residential Survey: Closing the Feedback Loop
March 9th, 1pm-4pm (PST) Hybrid: Perry Technical Institute (Yakima)	Transportation Electrification Washington Plan Filing, Feedback, and CBI Update Demand Response Washington Filing and CBI Update Community Spotlight
April 13th, 1pm-4pm (PST) Online	Communications Team Vision & Updates; Comms CBI Update Energy Efficiency Updates Community Connections
May 2-4 (Yakima & Walla Walla)	Local, in-person visits with the WA Equity Advisory Group
June 8th, 1pm-4pm (PST) Online	CEIP Annual Progress Report Check In; WA Survey Updates from the Communications Team and Energy Efficiency Team Community Connections
July 13th, 1pm-4pm (PST) Hybrid: Sustainable Living Center (Walla Walla)	Filed CEIP Annual Progress Report Filing & Feedback; WA Non-Energy Impacts Updates Community Connections
 August	No EAG Meeting; CEIP Engagement Series 1 Meeting (Online) August 31st 12:30pm-4pm
September 14th, 1pm-4pm (PST) Online	Energy Efficiency Updates (Preview Biennial Conservation Plan and program changes) Customer Benefit Indicator Development (Continued) Community Connections
October 12th, 1pm-4pm (PST) Hybrid: Location TBD	Energy Efficiency Updates Community Connections
November	No Meeting
December 7th, 1pm-4pm (PST) Online	End of the Year Survey and Reflection; 2024 Planning

EAG Calendar

August – **No EAG Meeting**

September 14th (Online)
[Washington Equity Advisory Group](#)

October – (Hybrid; Yakima area)
[Washington Equity Advisory Group](#)

For more information:

[Washington Clean Energy Implementation Plan](#)

Pacific Power Stakeholder Engagement

August 31st (Online)
[Washington DSP Workshop & CEIP
Engagement Series \(Zoom\)](#)