





#### This meeting will be recorded

## **Clean Energy Implementation Plan Engagement Series**

October 29, 2024, 9:00 a.m. - 12:00 p.m. PT

#### For a Better Meeting Experience



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## **Objectives & Agenda**

#### Objectives

- Provide Regulatory, Clean Energy Implementation Plan, and Engagement Updates
- 2. Share Distribution System Planning Updates
- 3. Present Pacific Power's Demand Response Activities in Washington
- 4. Provide Integrated Resource Planning Updates in Washington

#### Acronyms:

IRP: Integrated Resource Plan/Planning CEIP: Clean Energy Implementation Plan EAG: Equity Advisory Group DSM: Demand Side Mangement Advisory Group LIAG: Low-Income Advisory Group

#### Agenda

TIMING	ΤΟΡΙϹ	
9:00 am	Purpose & Objectives	
9:05 am	Regulatory Updates	
9:10 am	Clean Energy Implementation Plan Updates	
9:20 am	Engagement Updates (CEIP, EAG, DSMAG, LIAG)	
9:35 am	Distribution System Planning Adoption in WA	
10:05 am	Break	
10:15 am	Demand Response in Washington	
11:15 am	IRP: Washington CEIP Studies (30 min)	
11:45 am	Public Comment (5 min)	
11:50 am	Next Steps (5 min)	

#### Clean Energy & Regulatory Updates



**Rohini Ghosh** Director, Clean Energy Planning

**Demand Response** 



**Laura James** Sr. Customer Solutions Program Manager

**Shawn Grant** Director, Customer Solutions



Randy Baker Director, Resource Planning



Nancy Goddard Sr. Customer Solutions Program Manager (Energy Efficiency)



**Charity Spires** Customer Solutions Program Manager (Low-Income Programs) Distribution System Planning

**Presenters** 



**Ian Hoogendam** Distribution System Planning Director



POWERING YOUR GREATNESS

# **Regulatory Updates**

## **Regulatory Updates**

**Recent Rate Proceedings:** 

- LIBA (Low Income Bill Assistance) Surcharge was increased 1.0% effective August 1, 2024
- System Benefits Charge (funding for conservation<sup>1</sup>) was increased 1.1% effective September 1, 2024
- 2023 Power Cost Adjustment Mechanism was suspended for adjudication.
- 1. Added recovery for approved demand response programs (Docket UE-240393)



# **Clean Energy Implementation Plan**

## **Biennial Clean Energy Implementation Plan Adjudication**



## Vulnerable Populations Workshops

Recap of Vulnerable Populations Workshop #2

- Proposed using geographic vulnerable population rather than single characteristic approach
- Reviewed initial geographic vulnerable population analysis
- Obtained input from participants on methodology and populations to include in vulnerability analysis

#### Next steps

- Take feedback and incorporate into the geographic vulnerable population approach
- Vulnerable Populations Workshop #3 is anticipated to take place in January 2025; details will be shared as soon as they become available



# Clean Energy Implementation Plan (CEIP) Engagement

- PacifiCorp will fully engage with all of its advisory groups in developing future CEIPs and CEIP updates.
  - PacifiCorp will offer at least one joint consultation session in which all advisory group members are invited to attend and converse with members of other advisory groups with the purpose of sharing feedback on the CEIP, CEIP updates, and the consultation process itself.
  - PacifiCorp will also describe how feedback is incorporated from advisory groups and the public in its CEIP, future CEIPs and CEIP updates.

• After consultation with its advisory groups, PacifiCorp will file a draft CEIP on a timeline deemed sufficient by the company and parties to incorporate comments.

- Provide a draft 2025 Clean Energy Implementation Plan to advisory groups and interested parties **45 days** prior to final filing date.
- Outline the process for comments and feedback (informed by advisory group feedback along the way).
- PacifiCorp reviews all submitted comments and feedback and updates its draft.
- PacifiCorp files its 2025 Clean Energy Implementation Plan on October 1, 2025.

Proposal

42. Miscellaneous

Condition 1.

# Pacific Power's Feedback Tracker Update

### Goals:

- Publish an update each quarter (Pacific Power staff will review, validate, and respond to feedback as needed)
- Provide a summary of comments received during the development of Pacific Power's Clean Energy Implementation Plan

### Features:

- Formatted in Excel
- Is state specific and includes the month, year, meeting space where the feedback was provided, and notes the topic category to establish context and shared understanding
- Feedback tracker can be found externally here: <u>Washington Clean Energy</u> <u>Implementation Plan Feedback Tracker</u> (within PacifiCorp's Clean Energy Transformation Act webpage)



# **Engagement Updates**

## 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, interested parties, and members of the public. Participants will have the opportunity to provide input on elements of PacifiCorp's developing CEIP, CEIP updates, Demand-Side Management activities, Distribution System Planning activities, as well as other topics. 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.

If you have questions, feedback, or would like to be added to the distribution list for the Washington Clean Energy Implementation Plan, please email us at <u>CEIP@PacifiCorp.com</u>.





continue in 2025!

# Equity Advisory Group

#### October 10, 2024 (1pm-4pm) Online

- Low Income & Equity Advisory Group Joint Meeting
- Multi-Family Electric Vehicle Supply Equipment (EVSE) Program
- Communications Update: Presentation of Pacific Power's Draft WA Language Access Plan

November

No Session

December 12, 2024 (1pm-4pm) Online Combined with DSM

- End of the Year Reflection
- 2025 Planning

# Docket UE-230172 Settlement Stipulation

Pacific Power will work with its *Low-Income Advisory Groups (LIAG) and Equity Advisory Group (EAG)* to discuss and seek consensus regarding the items noted below and will propose a package addressing these items by April 30, 2025, requesting Commission approval before October 1, 2025.



## Working Group Process

• Working sessions will begin • Four – one hour long sessions • Community-Based Organization Outreach Program / Low-Income Bill Assistance (Discount Tiers) AUGUST 2024 • Working sessions will continue • Four - one hour long sessions • Self-Declaration Considerations / Arrearage Management Plan EPTEMBER 2 • Pause working sessions to evaluate and communicate milestones at the October 10, 2024 Equity Advisory Group Meeting • Will hold time and space for both the EAG and Low-Income Advisory Group members to weigh in on progress made, work remaining, and how to move forward together OCTOBER 2024 • Will be informed by advisory groups and remaining work

Jonathan Smith	Yakima County Development Association		UTC Sta Other i
Shaylee Stokes	The Energy Project		
Paul Tabayoyon	Asian Pacific Islander Coalition		
Charlee Thompson	Northwest Energy Coalition		
Stefan de Villiers	Public Counsel		
Andy Wilson	Yakima County Health District		
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Washington Utilities & Transportation Commission

Northwest Community Action Center

Northwest Community Action Center

Commission

**OIC** Yakima

SonBridge

**OIC Yakima** 

Sustainable Living Center

Northwest Energy Coalition

**Blue Mountain Action Council** 

Washington Utilities and Transportation

## Participants

Working sessions were born out of stakeholder feedback to allow additional time outside of monthly meetings to discuss Docket UE-230172 settlement stipulations.

Meeting attendees include:

- Equity Advisory Group members
- Low Income Advisory Group ٠ members
- aff
- interested parties

Attendees

Jose Alvarez

Corey Cook

**Erendira** Cruz

Todd Hilmes

Candi Jaeger

Justin Jording

Soumya Keefe

Andrew Roberts

Sylvia Schaeffer

Luisa Perez

### **Demand Side Management (DSM) Advisory Group**

#### DSM Advisory Group Meetings, Drafts for DSM & Equity AG Review, Filings, CEIP Engagement

August 2024	September 2024	October 2024	November 2024	December 2024
August 6: CEIP Engagement Series, Meeting #3 2025 IRP/CEIP Updates, CEIP Progress Report, continue	Sept 12: 2024 DSM Advisory Group, meeting #3 (joint with Equity Advisory Group)	Oct 7: Draft Low Income Weatherization program filing to advisory groups (Comments requested by Nov 6)	<b>Nov 7:</b> File Low Income Weatherization program changes (Schedule 114)	Dec 12: 2024 DSM Advisory Group, meeting #4 (joint with Equity Advisory Group)
the discussion into Distribution System Planning <b>August 28:</b> Vulnerable Populations Workshop #2	1/1/2025 energy efficiency program changes, 2025 Annual Conservation Plan preview, CEIP utility actions for 2025 (energy efficiency), demand response program updates	Oct 15: Draft 2025 Annual Conservation Plan to DSM AG, EAG Includes energy efficiency CEIP utility actions for 2025 (Comments requested by Oct 30)	<ul> <li>Nov 15:</li> <li>File 2025 Annual Conservation Plan</li> <li>File battery demand response program</li> <li>Home Energy Savings and Wattsmart Business</li> </ul>	Draft 2025 Wattsmart Communications Plan
	Sept 16: 2025 program change documents to DSM AG, EAG Home Energy Savings, Wattsmart Business (Comments requested by Sept 30)	Oct 16: Draft battery storage demand response filing to DSM AG, EAG (Comments requested by Oct 31)	program changes for 1/1/2025 announced on www.pacificpower.net	
	Sent 17	Oct 29:	ACP: Annual Conse	ervation Plan

CEIP Engagement Series,

Meeting #4

Draft Language Access Plan to

(Comments requested by Oct 10)

advisory groups for review

ACP: Annual Conservation Plan
BCP: Biennial Conservation Plan
CEIP: Clean Energy Implementation Plan
DSM AG: Demand-Side Management Advisory Group
EAG: Equity Advisory Group

Distribution System Planning Adoption in Washington





### **DISTRIBUTION SYSTEM PLANNING**



# DSP | Recap of Last Workshop

## Recap of Last Workshop



#### Difference in Washington and Oregon Service Area

- Oregon service area is larger- 4x more circuits and residential customers.
- Oregon service area has 98% AMI adoption-Washington is at 0% adoption.
- Larger coverage areas and advanced metering technologies create greater opportunities to identify rare, nontraditional solutions.

#### **The Importance of AMI Data**

- Fills in gaps where utility does not have SCADA measurements
- Provides more granularity and confidence in growth rates and load profiles
- Growth estimates based on AMI data is independent of circuit load transfers

#### **Difference in Implementation Partners**

- Both states have funds allocated for energy programs.
- Oregon implements through Energy Trust of Oregon, Washington implements through internal departments

#### **Resiliency**

- Reviewed how we built Community resilience, Utility resilience, and the Community- Utility Resilience Metric
- Environment Justice 40 layer was added to our process to identify grants opportunities.
- Finally, FEMA/ Red Cross information added to identify sites Pacific Power could work with



# DSP | DSP and Other Washington Initiatives

## Collaborating with Other Washington Initiatives

## DSM

- Load growth forecasting, and potential load profiles enhancements
- Energy Efficiency as a nontraditional solution
- Conservation by Voltage Reduction Assessments
- Working with DSM to understand ongoing projects/ initiatives ductless heat pumps

## CEIP

- Integrating DER and other renewable energy resources
- Working with external partners to understand barriers the communities have – DSP has already attended EAG in person meeting in May



# DSP | Plans to Expand Oregon DSP Advancements into Washington

## **DSP** Advancements







# DSP | Barriers and Challenges

## SCADA

- Currently covers 50% circuits, 53% of substations in Washington.
- Without SCADA
  - Lack of historical measured data limits ability to forecast growth accurately
  - Lack of granularity and entry errors for manual reads may lead to use of invalid peak loading conditions used for initial load assumptions

## AMI

- Not currently in Washington
- Without AMI
  - Limited ability to see where growth is occurring on a distribution circuit
  - Limited ability to identify key customers that could participate in utility run customer programs
  - Barriers with growth calculations after load transfers
  - Limited data on behind-the-meter data- Solar, EV, DR

## Administrative Challenges



## Staffing

- Currently DSP has two engineers
- Will need to hire at least one engineer
- Training on process, programs, and engagement

### Costs

- Increase staffing, engagement
- Nontraditional solutions such as batteries or solar have high customer burden



#### Time

• Time horizon is much longer- 10 years, and landscape may change

### **DISTRIBUTION SYSTEM PLANNING**



# DSP | Implementing Engagement Feedback

## **Community Engagement Workflow**

## **Community Engagement**

#### Document Feedback & Questions

Ensure all stakeholder feedback and inquiries are accurately captured and recorded.

### •Direct Feedback to the Appropriate Group

Route feedback to the correct team or department for action, ensuring no input is missed.

#### Address DSP-Related Feedback

For DSP-related comments, provide responses, integrate feedback into processes, and document outcomes.

#### •Review & Analyze Trends

Regularly review the feedback database to confirm completion and identify trends that can inform future initiatives.



### **DISTRIBUTION SYSTEM PLANNING**

## 2024 WA Distribution System Planning Engagement



## Example of DSP Study Process and Local Engagement Plan



#### **DISTRIBUTION SYSTEM PLANNING**



#### **Settlement Condition 25:**

DSP Condition 1. PacifiCorp will conduct distribution system planning for Washington, *including incorporating relevant learnings from the Company's similar efforts in Oregon*, and evaluate Washington-specific costs and benefits including the equitable distribution of benefits and burdens to:

- 1. Vulnerable populations (CBI EAG group definitions)
- 2. Highly Impacted Communities

During this process, PacifiCorp will *solicit stakeholder input* regarding options and priorities for various strategies, including resources that are not owned or controlled by PacifiCorp.

The parties do not object to the Company seeking full cost-recovery of these DSP costs and expenses. Due Date: 2025 CEIP.

### **Next Steps:**

Develop and document plan to implement DSP in Washington as part of 2025 CEIP filing



# Questions?



Pacific Power Rocky Mountain Power




# **Demand Response**

## Demand Response (DR) Portfolio Review

### Agenda

<b>Review Schedule 106</b>	<ul> <li>Process for program changes</li> <li>Process for new programs</li> </ul>
Jpdates to Existing Programs	<ul> <li>Irrigation Load Control</li> <li>Commercial &amp; Industrial Demand Response</li> <li>Optimal Time Rewards</li> </ul>
Introducing New Programs	<ul> <li>Battery DR</li> <li>CoolKeeper (Residential AC)</li> <li>Electric Vehicle DR</li> </ul>
<b>Portfolio Overview</b>	<ul> <li>Status</li> <li>Forecast against Clean Energy Implementation Plan Target</li> </ul>

### Schedule 106 Processes

Schedule 106 is an umbrella tariff for all demand response. Processes for introducing new programs and making changes to existing programs are detailed in the initial filing for the tariff, under docket UE-220550.

#### **New Programs**

- 1. Draft filing will be circulated to UTC Staff and stakeholders for comments
- 2. Updated filing will be submitted to WUTC
- 3. Program will be effective once it has been acknowledged by the WUTC.

#### **Updates to Existing Programs**

- 1. Proposed changes sent to DSM AG, EAG with the deadline for comments
- 2. Final changes and responses to comments will be posted to the Pacific power website
- 3. Changes will be effective after 45 days



# **Updates to Existing Programs**



## Irrigation Load Control (ILC)

#### 2024 Season - Preliminary Results

	2023 Season	2024 Season
Devices enrolled	75	299
Avg Capacity Available (MW)	1.1	4.0
Events	5	11
Average Duration (Hours)	3.1	3.4
Avg Capacity Controlled (MW)	0.1	2.1
Avg Capacity per device (kW)	4.9	7.5
Opt-out Rate (% MW)	~50%	~50%



- 224 new participants
- Increased use by ESM team
- Average capacity curtailed and available increased due to continued successful recruitment and enrollment
- Capacity per device below target of 15 kw
- Opt-out rate continues to be around 50% of capacity, including several of largest pumps
- Great majority of capacity in 20-min notice group, above target 1/3
- 34 participants unenrolled
- Likely not cost-effective

## Irrigation Load Control

### **Objectives for 2025**

Align program options with grid management needs

Improve usability for Energy Supply Management

Improve cost-effectiveness by increasing average capacity per pump

#### **Proposed Program Changes**



Streamline parameters by merging 3 notice options into single 4-hour notice option



Set single incentive level (\$30/kw-yr), with **50% bonus** option for no opt-outs

Limit eligible days and hours to weekdays from 2 to 9 PM (instead of all days, 12 PM – 10 PM), and end season

Introduce Voluntary component:

- Voluntary events may occur any time, for any duration, through September 30
- Voluntary events are 100% voluntary no penalty for opting out
- Separate incentive of \$0.38/kwh for voluntary event participation

### Commercial & Industrial Demand Response

Product	Events	Avg Curtailment* (kw)	Performance – First 2024 Event	Performance – Latest 2024 Event
60 Min	4	430	-85%	84%
20 Min	5	339	-97%	63%
7 Min	4	1,043	105%	84%
Real Time	n/a	n/a	n/a	n/a

#### 2024 – Mid-Year Result

\*Final performance analysis not yet available for all participants



- Usage by ESM increasing
- Enrolled capacity increasing
- Available capacity more stable, based on performance history
- Participant performance improving with experience
- Reached 98% of event cap on Real-Time product in October
- Rate of enrollment slower than expected due to difficulty re-engaging customers, site-specific issues
- Big box retailer pulled out of DR programs nation-wide, possibly temporarily (reduced 60 Min capacity by 33%)

### **Commercial & Industrial Demand Response**

### **Objectives for 2025**

Align program options with grid management needs

Improve usability for Energy Supply Management

Increase volume by identifying and removing bottlenecks for enrollment

#### **Proposed Program Changes**



**Eliminate the 20 Minute product**, which doesn't fit with grid needs



Change the 60 Minute product to **Peak Shaving, with a 4 hour minimum notice**, 4 hr max duration, and hours 2-9 PM



Change caps on dispatch for 7 Minute and Real-Time products:

- Remove cap on number of events for both products
- Increase hourly cap for Real Time to 15 hours from 5
- [No change to 7 Minute cap of 60 hours]

### **Residential Demand Response**



- Optimal Time Rewards program **will end** by November 1, 2024
  - Program not cost-effective despite substantial efforts at redesign and contract review
- PacifiCorp will introduce **three new programs** targeting the residential sector:
  - CoolKeeper, for residential AC
  - EV Managed Charging
  - **Battery DR**, for residential and small commercial batteries

## **Optimal Time Rewards**



\*Using Oregon data as a proxy because to date, no devices installed in Washington.

- Data from 2024 events shows per water heater unit capacity 70% lower than expected
- WiFi-based communication presents significant barrier
  - Residents unwilling/unable to connect, or do not have WiFi
- Program is not cost-effective
  - Thermostats are unlikely to generate enough volume to offset fixed administration costs, without water heater contribution

PacifiCorp will continue to monitor market trends for water heater and thermostat DR programs, and may reconsider these resources if economics change

- Water heaters are a highly reliable, low-impact resource
- BYOD Thermostats are a low-cost, broadly available resource, and potentially a growing market

### **Existing Programs**



### **Program Changes Timeline**

Circulate draft program changes	10/30/2024
Comments due	11/25/2024
Final changes and response to comments posted	12/16/2024
Changes become effective	1/31/2025

Program change documents will be circulated to the DSM Advisory Group, and the Equity Advisory Group.



# New Programs



### Battery Demand Response Program

- Program Overview
- Incentives
- Projected Costs & Load
- Sample Batteries
- Battery Data
- Next Steps





Financial incentives provided so the utility may dispatch a customer-owned battery to address specific needs of the larger electric grid

During a demand response event, the battery would serve the customer's load, thereby decreasing grid strain

PacifiCorp has successfully implemented battery programs since 2019

PacifiCorp would not leverage this program during an outage

## Battery Program - Details

### **Battery Utilization**

- Utility grid management
- Peak load management
- Frequency response
- Contingency reserve
- Daily load cycling

### **Battery Dispatch**

- Distributed Battery Grid Management Solution (DBGMS)
  - Allows for flexibility in battery control total grid management
  - Integrated with PacifiCorp's Energy Management System
  - ISO 270001 security compliance
  - Real-time battery connectivity reports

### **Battery Program Incentives**

	Enrollment Incentive	\$150 per kW upfront during commitment period (4 years) Early program termination will require prorated repayment of upfront incentive
	Annual Incentives	\$15 per kW during commitment period years 2 – 4 \$50 per kW after year 4
-	Example incentives for 5 kW battery	Enrollment incentive: 5kW x \$150 x 4 years = \$3000 Annual incentive years 2 – 4: 5kW x \$15 = \$75 Annual incentive year 5 and beyond: 5kW x \$50 = \$250
$\checkmark$	Potential future lease option	Lease option will be evaluated based on customer feedback and participation levels

### WA Battery Program Costs / Participation

#### Estimated/preliminary program costs

Cost Category	2025	2026	2027
Program Administration	\$15,000	\$20,000	\$25,000
Software Costs	\$15,000	\$30,000	\$50,000
Marketing	\$5,000	\$5,000	\$5,000
Total Incentives	\$150,000	\$303,750	\$411,250
Total Program Costs	\$185,000	\$358,750	\$491,250

- Low fixed costs
- Year over year increase driven by participation assumptions
- 84% of estimated costs are customer incentives
- Higher incentives for early adopters incentives projected to decrease over time

#### Estimated/preliminary program participation

Voar	Estimated Battery	Estimated kW -
Ital	Participation	Cumulative
2025	50	250
2026	100	750
2027	200	1750
2028	200	2750
2029	500	5250
2030	750	9000



- Period of stakeholder review
- File on November 15
- Internal preparations
- Program anticipated to kickoff on January 1, 2025



### Cool Keeper – AC Demand Response Program - New Program Proposal

- Currently 119,000 Air Conditioners enrolled in program in UT.
  - $\circ~$  100 320 MWs of peak load reductions and frequency control weather dependent
- Proposing to expand program to the WA service territory .
  - Residential and small commercial customers with split system A/C units (not for window A/C or evaporative cooling.
- Autonomous dispatch with EMS for frequency response and real-time dispatch for contingency events.
- Using modified cellular Load Control Receiver for communications.
- Benefits
  - o Ensures reliable energy grid
  - Helps keep prices low
  - $\circ$  Protects the environment





#### **Cool Keeper Program - overview**

- The Cool Keeper program is an air conditioner direct load management program targeting residential and commercial customers who cool their dwellings with electric central air conditioners.
- The program is called upon curtailment under varying circumstances. Due to the flexibility of the program and real-time dispatch capabilities the resources can be utilized for various smart grid application.
- When there is a grid need, the Cool keeper control equipment installed on a participating customer's cooling equipment is sent a signal to cycle the operation of the compressor "off and on" for brief periods each hour in coordination with other participating customers.
- For their participation, customers receive a monthly bill credit. The maximum annual incentive for participation is \$30-\$60 depending on the size of the unit.
- For program participants who are not enrolled for the season, they will receive daily pro-rated credit for the days they participate. The Cool Keeper load control system is operated through a two-way communication with a RF wireless mesh network for improved control, measurement, and verification of program performance.



### Cool Keeper Program Parameters

#### • Cool Keeper Event Dispatch

- Dispatch Period: May 1 September 30
- Available Dispatch Hours: 2:00PM 9:00PM
- Emergency dispatch is any time
- Maximum Dispatch Hours: 100 hours per Program Year
- Dispatch days: Monday through Friday, excluding holidays
- Dispatch Duration: Events will be limited to four hours per day





- Cool Keeper
  - See how the program works:



### Cool Keeper: Everything is Interconnected

• Cool Keeper is administered by

○ Franklin Energy

 Field Operations, maintenance and installation, marketing and data.

 $_{\odot}$  Eaton

- Manufactures and delivery of Cool Keeper equipment
- Provides Hosted solutions to dispatch and monitor equipment



### Cool Keeper – Next Steps

- Period of stakeholder review
- File in DTBD?
- Internal preparations
- Program anticipated to kick-off on January 1, 2025

### Electric Vehicle DR - Overview

• Frequency DR program

 Vehicle will pause charging up to 5 minutes during frequency event

- Event signal sent directly to vehicle, not charger
- Only vehicles charging in Pacific Power's territory will receive dispatch signal
- Customers can always opt-out of an event
- Any eligible electric vehicle can enroll, regardless of residential or non-residential use



### **Electric Vehicle DR - Incentives**

- Up to \$100 for first year participation
- Up to \$50 each following year
- Customer receives two free opt-outs. Each additional opt-out reduces incentive by \$10

• Annual incentive will never be negative



### Electric Vehicle DR – Projected Costs & Load

	2025	2026	2027
Program Administration	\$15,000	\$20,000	\$25,000
Vendor	\$35,000 - \$45,000*	\$60,000 - \$70,000	\$90,000- \$110,000
Marketing	\$1,000	\$2,500	\$5,000
Incentives	\$2,500	\$3,800	\$7,500
Total	\$53,500 - \$63,500	\$86,300 - \$96,300	\$127,500 - \$147,500

	2025	2026	2027
Forecasted EVs Enrolled**	25	50	100
Estimated kW (Cumulative)	80	160	330

\*Includes one-time platform setup fee

\*\*There are an estimated 1,200 electric vehicles registered in Pacific Power's Washington territory



Eligible makes and models can enroll – the program has no charger requirements

### Electric Vehicle DR – Next Steps

- Finalize cost estimates
- Stakeholder review
- File in November/December
- Discuss launch plan with vendor
- Establish marketing plan
- Program expected to kick off January 2025

### Demand Response Portfolio Status



#### Strategies to close the gap

- Launching new programs Cool Keeper, EV Managed Charging, Batteries
- Streamline existing programs for easier sales and recruitment
- Targeted focus on removing barriers for large customer participation

## Integrated Resource Planning

### Portfolio Development

- Previous IRP cycles sought to meet Oregon and Washington requirements through "layering on" needed resources **after** the final selection of the system-wide least cost, least risk portfolio.
- In the 2023 IRP Update, an initial portfolio was modeled appropriate to each state. The 2025 IRP will also use this strategy. Integrating all states' compliance requirements before finalizing the preferred portfolio:
  - Determine competitive least-cost, least-risk portfolios specific to each state inclusive of state requirements
    - Oregon Constraints:
      - Clean Energy Plan (CEP) emission compliance (HB 2021)
      - Oregon small-scale resource requirement (<20 MW)</li>
      - Renewable Portfolio Standards (RPS)
    - CA/UT/WY/ID Constraints:
      - These states are currently broadly aligned for IRP purposes
    - Washington Constraints:
      - Clean Energy Transformation Act (CETA) compliance
      - Social Cost of Greenhouse Gases included in resource dispatch
      - Renewable Portfolio Standards
- All initial state runs are combined based on each state's resource selections. The final "integrated" preferred portfolio meets all state compliance requirements and honors each state's resource selections.

### Portfolio Development



## Portfolio Integration Example



\* Washington requires the inclusion of the social cost of greenhouse gases in resource decisions

# Washington-Specific Sensitivities

- The 2025 IRP will include:
  - 1. Initial studies that cover state-specific policies and constraints that will be integrated into the unified preferred portfolio
  - 2. Variant studies eligible to be the preferred portfolio, including:
    - No Natrium nuclear project
    - No New Technology (nuclear and non-emitting peaking)
    - Offshore Wind counterfactual
    - Retire All Coal by 2032
    - No New Natural Gas
  - 3. Sensitivity studies that require fundamentally different inputs for informational purposes:
    - Bookend studies for load, distributed generation, federal opportunities adoption
- The 2025 CEIP will include additional Washington studies:
  - a) CETA compliance (initial and integrated portfolios)
  - b) Alternative Lowest Reasonable Cost
  - c) Climate change counterfactual
  - d) Maximum Customer Benefits
  - e) Other?

### Integrated Resource Plan Updates


## Upcoming Key Dates

### **2025 IRP Upcoming Meeting Dates and Milestones**

January 1, 2025 - Distribution of the 2025 Draft IRP

(The next opportunity to provide feedback will be January 1, 2025 – March 1, 2025)

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

# Public Comment





### **Upcoming Engagement Opportunities**

Washington Equity Advisory Group December 12, 2024 | 1pm - 4pm Zoom: <u>https://esource.zoom.us/j/83334278010?pwd=iy6</u> <u>cXTasljrxdu00pX6LpWMOo98b69.1</u>

Meeting ID	Passcode
833 3427 8010	708043

Meeting materials can be found online on PacifiCorp's <u>Washington Clean</u> <u>Energy Transformation Act</u> webpage. Spanish materials will also be available following each session.

If you have questions, feedback, or would like to be added to the distribution list to receive future Pacific Power Washington Clean Energy Implementation Plan news and updates, please email us at CEIP@PacifiCorp.com.

We would love to connect with you!

#### **Pacific Power Resources**

For more information please visit: Washington Clean Energy Implementation Plan

Washington Feedback Tracker: Washington CEIP Feedback Tracker

Washington Energy Resource Center: Energy Resource Center (pacificpower.net)