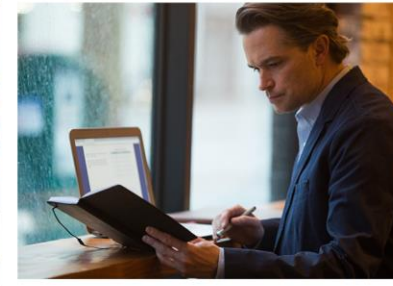


Community Benefits & Impacts Advisory Group

Environmental Impact & Customer Satisfaction

Nineteenth CBIAG Meeting
June 20, 2024



For a Better Meeting Experience

Environmental Impact & Customer Generation Programs

June 20, 2024, 1:00 - 4:00 p.m. PT



- Let us know who is in the room by adding your organization (if applicable)
- Click “Participants” and select the “Rename” option
- Use Gallery View (icon at top right) when in group discussion



- Navigate to "Interpretation" at the bottom of Zoom
- Select "ASL" under Watch or "Spanish" under Audio
- If the interpretation icon is missing, try the "More" icon
- For technical support, chat “Tag G-D/ E Source” as recipient, and send your message



- Questions are welcome at any time
- Please mute until speaking
- Speak by clicking the "Raise Hand" in the tool bar

Agenda

TIMING	TOPIC
1:00 PM	Objectives & Presenters
1:10 PM	Check In
1:20 PM	CBI Environmental Impact
2:10 PM	Break
2:20 PM	Customer Generation Programs
2:45 PM	Integrated Resource Plan (IRP) Update
3:45 PM	Public Comment & Closing

Presenters



Christina Medina
Stakeholder Policy &
Engagement Manager



Robert Meredith
PacifiCorp
Policy Director,
Pricing & Tariff



 **E Source**
Jeffrey Daigle
E Source Facilitator



Randy Baker
PacifiCorp
Director of Resource
Planning



Rick Link
PacifiCorp
Senior Vice President of
Resource Planning



 **E Source**
Morgan Westberry
E Source Facilitator



Patty Satkiewicz
PacifiCorp
Legislative Policy
Advisor

Community Benefits & Impacts Advisory Group (CBIAG)

Purpose:

Focus on equity and a clean
energy future in Oregon in
accordance with HB 2021

Today's Objectives

1. Discuss Community Benefit Indicators (CBI) that relate to Environmental Impacts
2. Provide updates on the Clean Energy Plan and Integrated Resource Plan
3. Learn about Customer Generation Programs

What smell, image, or sound prompts
nostalgia for you?

Reflecting on the April Meeting

CBIAG Attendees	
Cassidy Attleson	ACCESS
Christina Zamora	Klamath Lake Community Action Services
Jennifer Gustafson	AllCare Health
Patrice Hanlon	Josephine County Food Bank
Shaun Pritchard	United Community Action Network
Sarah Wallach	Community Energy Project
Tim Lynch	Multnomah County
Xitali Torres	Verde

Our goals:

1. Provide an update on the feedback from March's meeting
2. Introduce Resilience as the core Community Benefit Indicator for April
3. Discuss Community Based Renewable Energy Intersectionality
4. Learn about wildfire risks and safety practices

Main Themes:

- Defining resilience in energy and discussing resilience metrics – CAIDI, SAIFI, and SAIDI
- Highlighting the CBRE intersectionality to resilience using the 3 CBRE-RH Pilot components
- Learning about the new Fire High Consequence Areas and company measures to reduce the risk of wildfires
- Reviewing 2023 wildfire mitigation accomplishments and planned programs for 2024

Filling the Gaps

January	Biennial report planning Rate Case Updates	May	Postponed Postponed	September	CBI- Energy Equity Draft Review
February	Overview of filing and outline Integrated Resource Planning	June	CBI- Environmental Impacts Clean Energy Plan and IRP Updates	October	Draft Review (continued)
March	CBI- Health and Community Wellbeing Low-income assistance program	July	CBI- Economic Impacts Customer Satisfaction	November	Filing complete, no meeting
April	CBI- Resilience Wildfire	August	CBI- Economic Impacts Equity in Contracting	December	2025 Planning

CBI: Environmental Impacts

PacifiCorp needs to name a CBI in these five following topic areas:

Energy Equity	Resiliency	Health & Community Well-Being	Environmental Impacts	Economic Impacts
Proposed CBIs				
Energy burden # households	Outages + Duration	Disconnections	Renewable Energy + Emission Reduction	Community- focused efforts and investments

CBI: Environmental Impacts

HB 2021 requires that we ***“Increase Energy from Non-emitting Resources and Reduce CO2 Emissions to meet HB 2021 targets”***

CBI Qualities

MEASUREABLE

EQUITABLE

UTILITY CAN INFLUENCE

Clean Energy Plans (CEP) require Oregon retail electricity providers to reduce electricity associated greenhouse gas emissions below baseline:

- 80% below baseline by 2030
- 90% below baseline by 2035
- 100% below baseline by 2040

Baseline is average annual emission of greenhouse gases for the years 2010, 2011, and 2012 associated with the electricity sold to electricity customer

CBI: Environmental

atty note: please do not change this slide

PacifiCorp Oregon Fuel Mix

	2021 (1)	2022 (2)
Renewable	20.24%	20.1%
Non-Emitting	4.93%	4.9%
Total	25.17%	25.0%

(1) Updated CBI based on final verified ODOE data.

(2) 2022 fuel mix pending verification by ODOE.

PacifiCorp Oregon Emissions

PacifiCorp CEP Emissions reported to Oregon Department of Environmental Quality (ODEQ), Adjusted for QF emissions

Oregon HB 2021 Baseline (2010-2012 avg) (MT CO₂e): 8,994,448

	2021	2022
MWh served in Oregon	13,780,530	13,974,604
Total Oregon anthropogenic emissions (excluding QF) (MT CO ₂ e):	8,247,779 (1)	7,950,456
Emissions Reduced from Baseline	869,970	1,043,992
Percent Reduction from Baseline	8.30%	11.61%

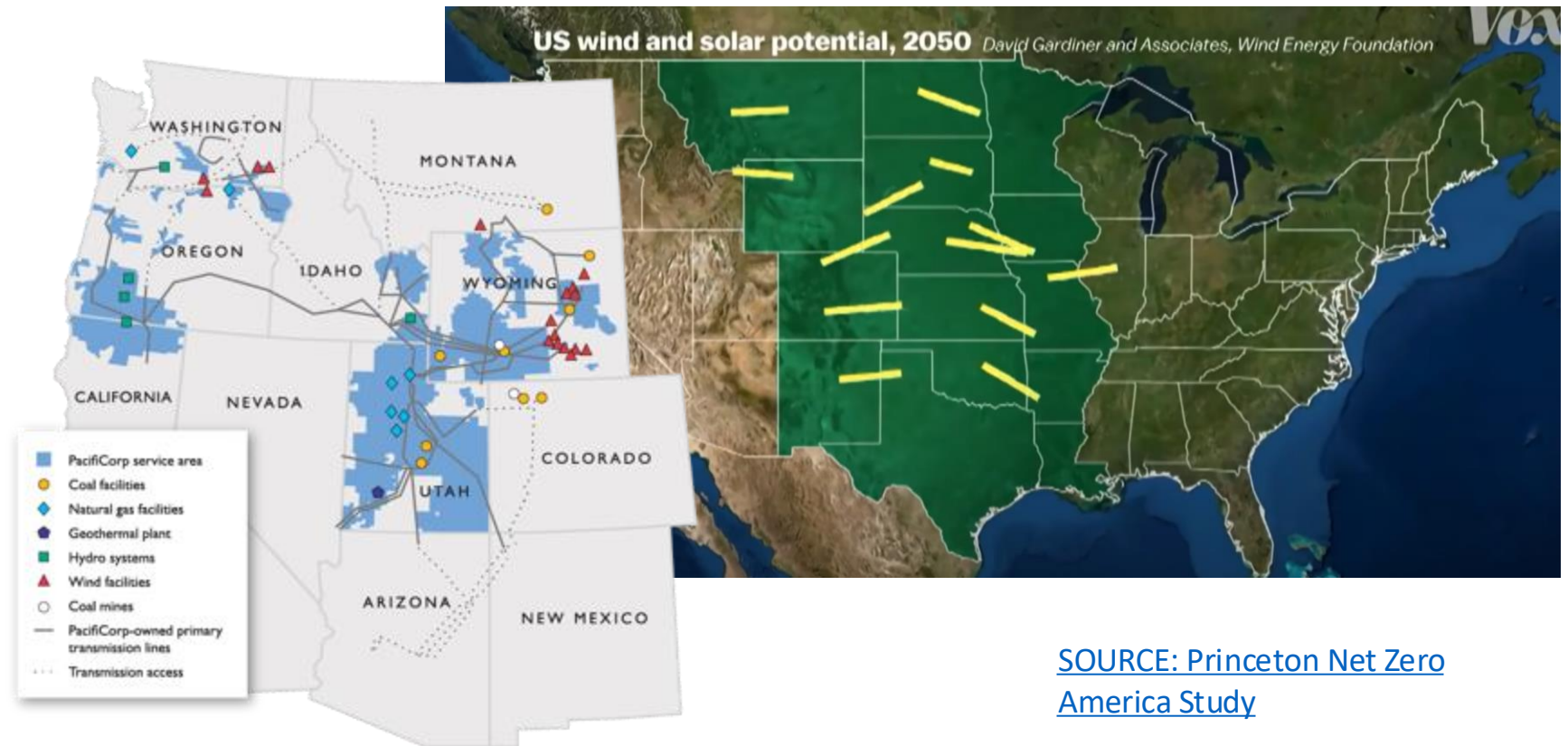
(1) Updated CBI excludes QF emissions consistent with HB 2021 requirements

Getting Renewables from Here to You

According to the Princeton Net Zero America study, meeting future renewable energy needs means locating renewable generation sources in the most favorable states (seen in green); however, these states only represent 30% of the customer demand.

PacifiCorp plans for its entire service area: Utah, Idaho and Wyoming as Rocky Mountain Power

We are in a good position to support a decarbonized future



[SOURCE: Princeton Net Zero America Study](#)

Considering Environmental Impact

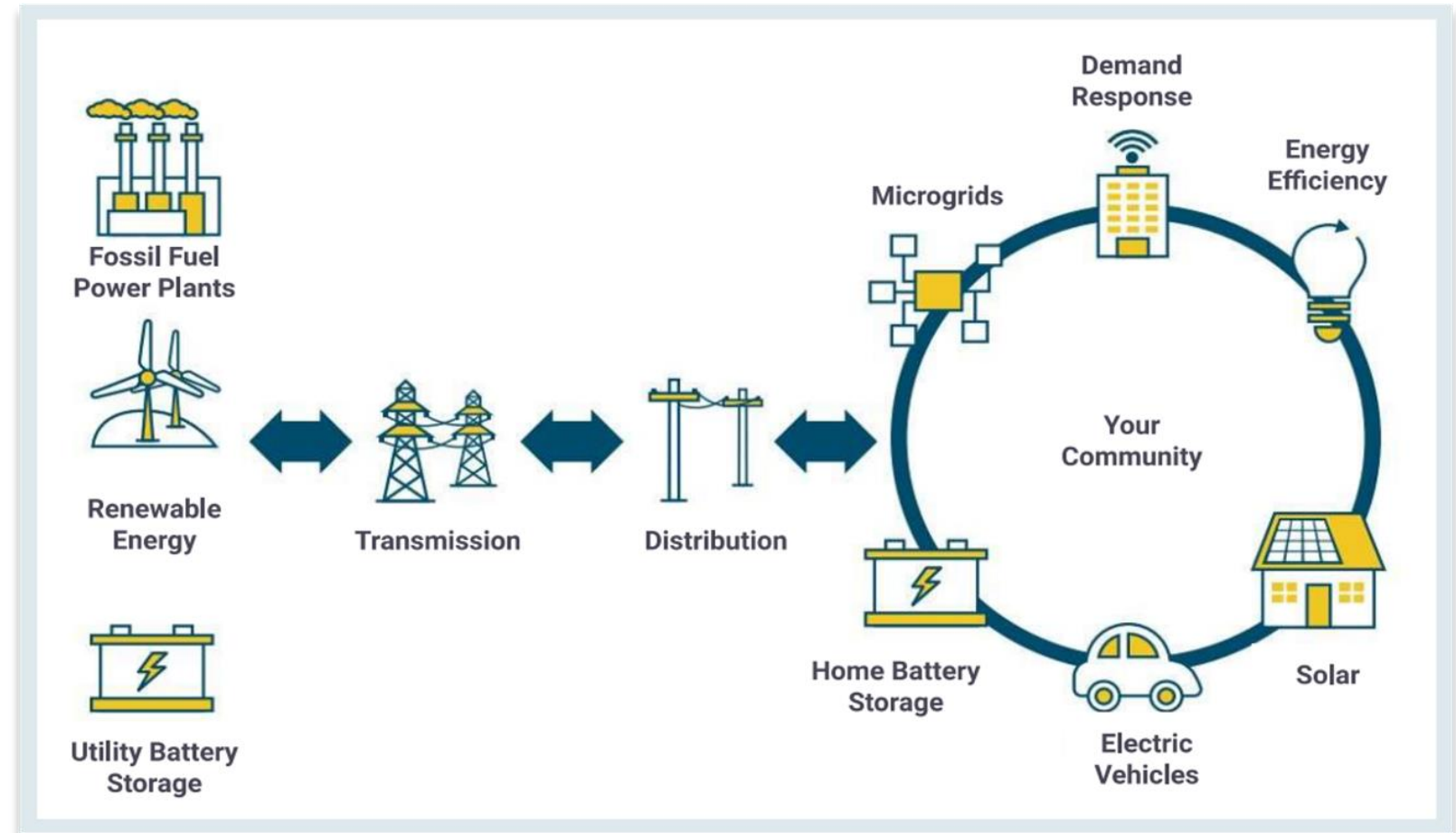
PROPOSED INTERIM

CBI Category	CBI	CBI Metrics	Purpose
Rulemaking language	Outcomes	How we measure outcomes	Why
Environmental Impacts	Increase energy from non-emitting resources and reduce CO2 emissions to meet HB 2021 targets	<ul style="list-style-type: none">• Percent of renewable and non-emitting resources serving Oregon retail customers• Amount of emissions associated with Oregon retail sales	Reduce fossil fuel resources and increase renewable and non-emitting resources that currently power Oregon's grid, while maintaining system reliability and on-demand service to customers.

Reaching Environmental Impact CBIs

PacifiCorp has been working on Integrated Resource Planning to propel clean energy planning

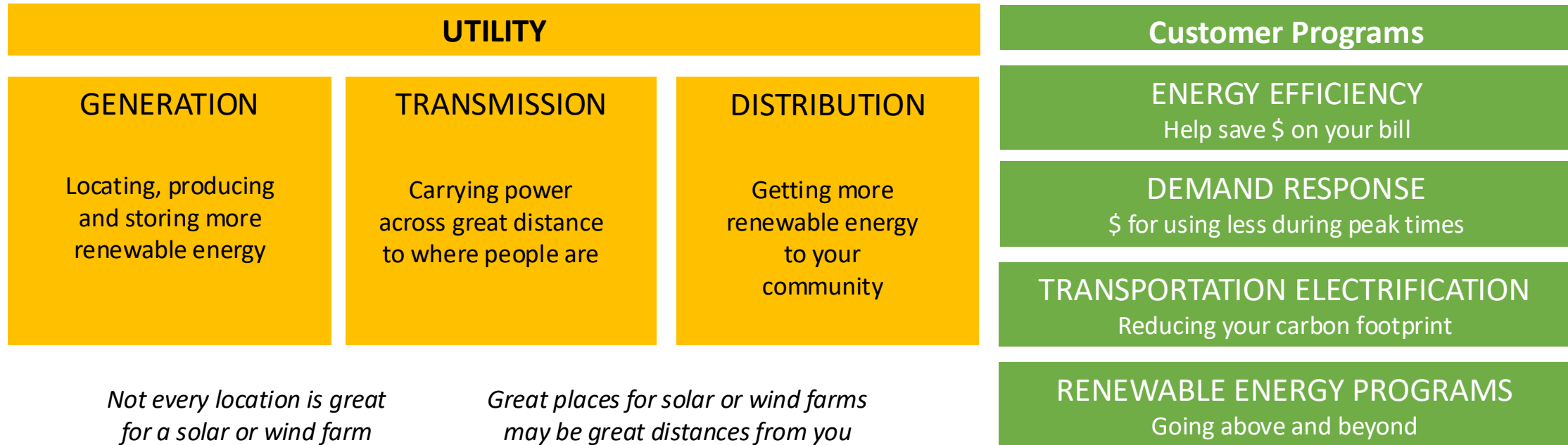
Integrated Resource Planning addresses and optimizes the entire system:



Graphics from Clean Energy Project DSM Presentation

Reducing Emissions

What we can do...



Questions & Comments

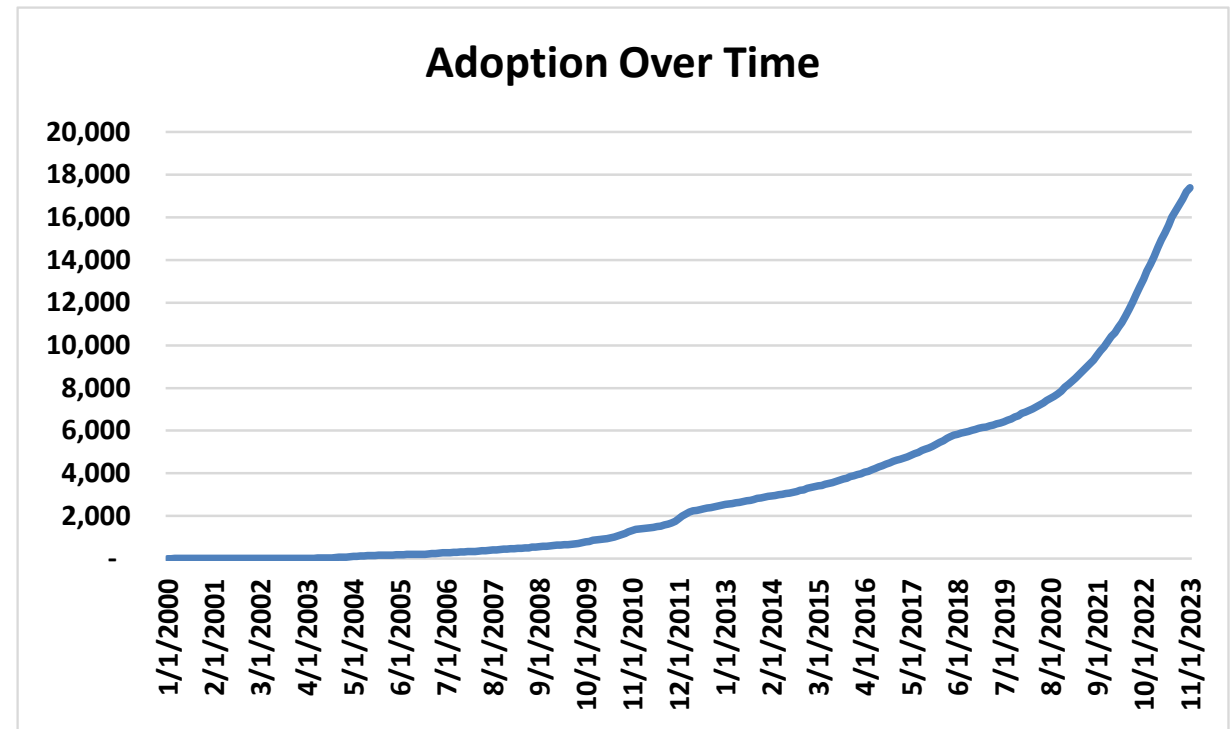
Is there anything else we should consider?

BREAK

Customer Generation Programs

Net Metering

- First interconnection in 2000
- Energy is credited 1 for 1
- Significant growth in adoption
- 18,976 customers participating
- 197 MW of nameplate capacity
- 2.9% of customers on net metering



Oregon Solar Incentive Program

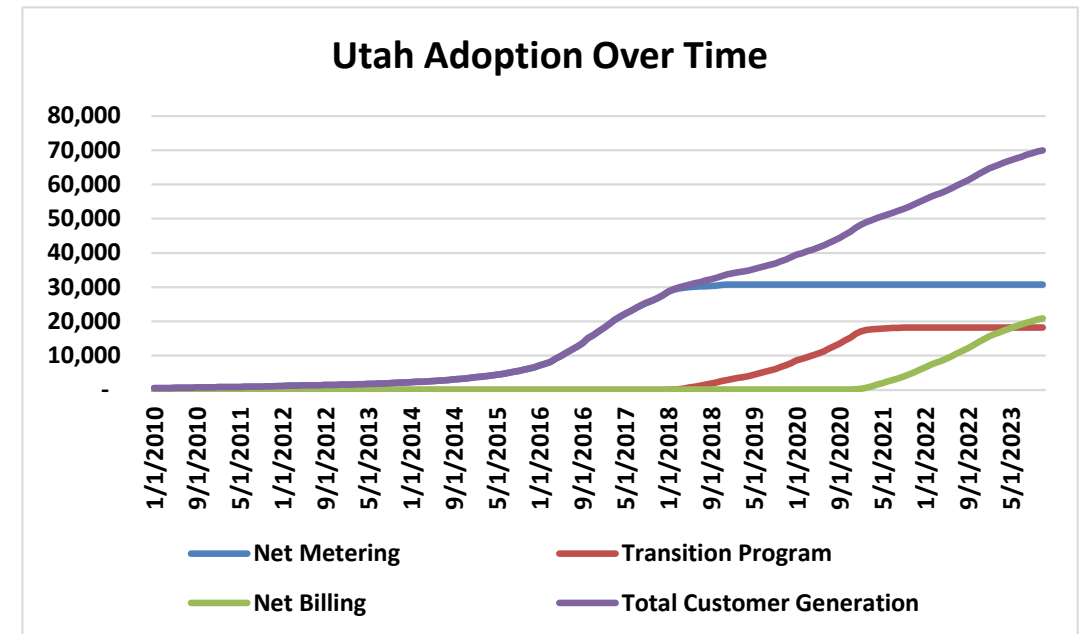
- Authorized by House Bill 3039 in 2009
- Incentive to spur the solar installation market
- 714 participants
- Volumetric Incentive Rate
 - Paid for all solar generation
 - Varies by install date and location
 - Range from 20.7¢ to 65.0¢ per kWh
 - \$5,892 average annual payment
- \$10 per month Solar Meter Charge
- \$3.2 million annual cost to customers
- 15-year contract – first one expires in August 2025



What Other States Have Done

Net Billing in Utah and California

- Both programs began in 2020
- Legacy net metering program closed to new applications
- Exported energy is credited at a value of exports (presently at 6.9¢ per kWh in Utah)
- Adoption has remained stable



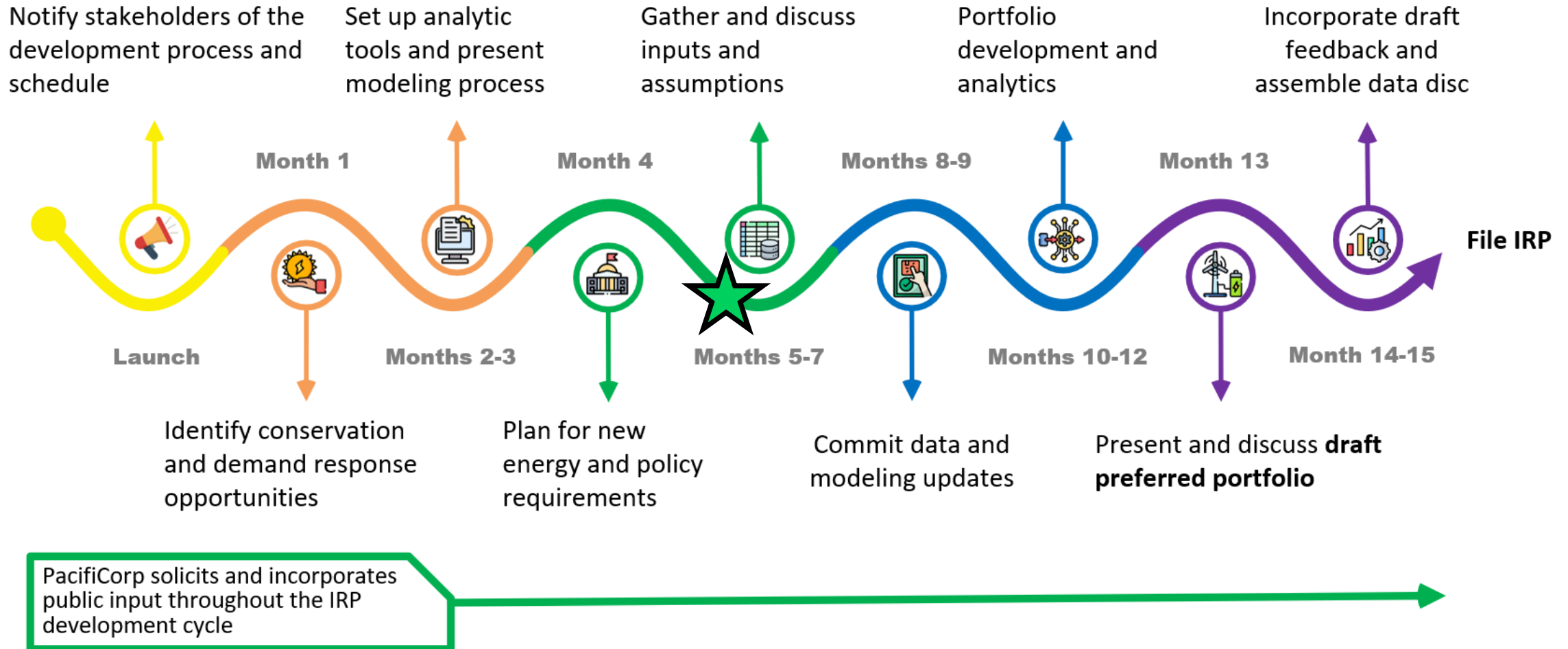


Next Steps

- Need to implement a successor program for the Oregon Solar Incentive Program by August 2025
- Evaluate Net Metering and explore alternative customer generation programs
- Outreach with interested parties

Integrated Resource Planning (IRP) Updates

The Integrated Resource Planning Process



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

Modeling Improvements: Integration of State Requirements

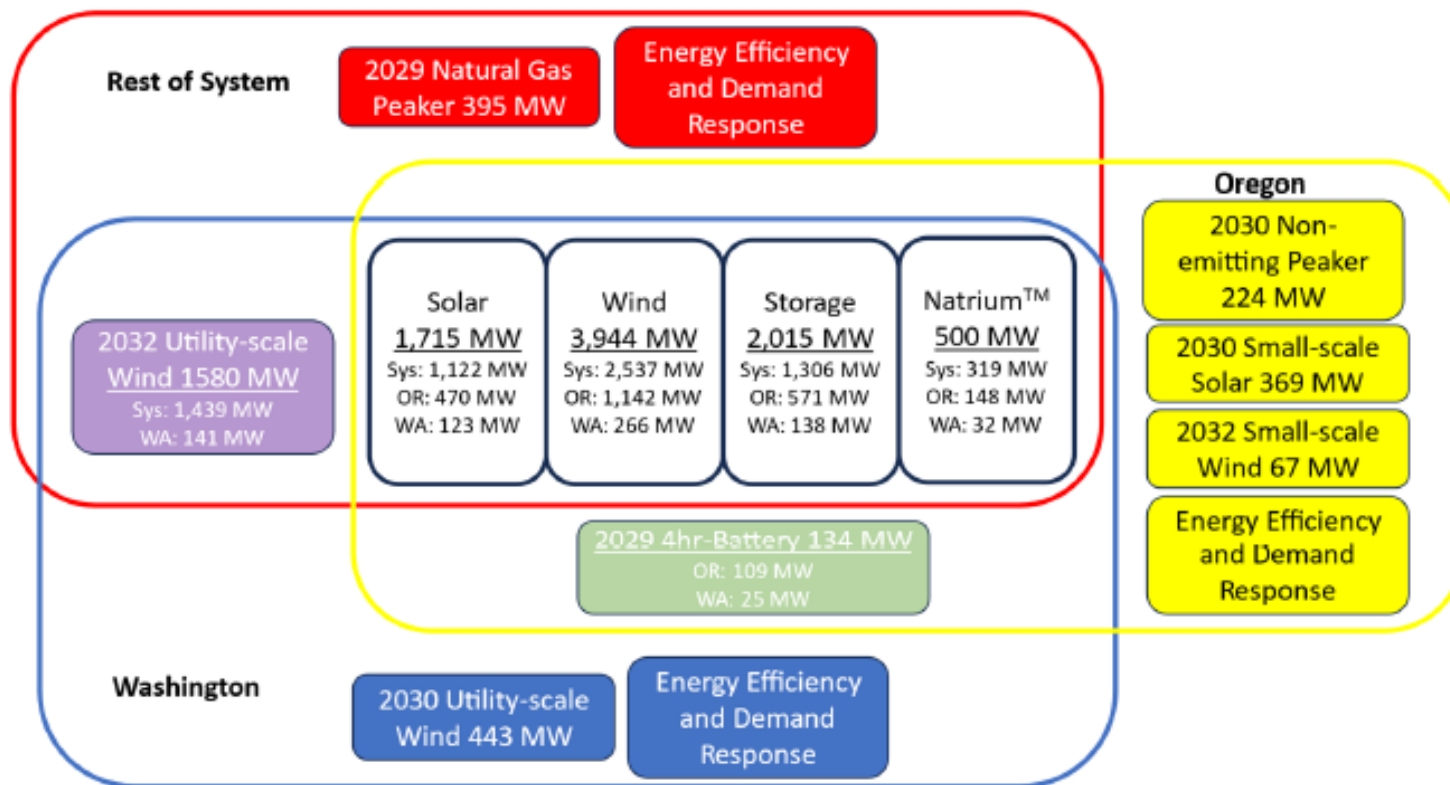
Previous IRP cycles sought to meet state level requirements through “layering on” needed resources **after** the final selection of the system-wide least cost, least risk portfolio

Moving forward, state level needs will be integrated into the preferred portfolio as part of the process and will not be added incrementally “on top.”

- State specific initial runs are completed
- These runs are compared to a fully unconstrained systemwide run
- State specific selections are incorporated into the unconstrained systemwide run at the state’s appropriate allocation

Modeling Improvements: Portfolio Integration Outcomes

Figure 1—Allocation of the 2023 IRP Update Preferred Portfolio Through 2032



Tax Credit Modeling

Inflation Reduction Act

- New resources receive one of two types of tax credit IF in service by 12/31/2037
 - Production Tax Credit (PTC) - based on the megawatt-hours of energy produced by a resource
 - Investment Tax Credit (ITC) - an upfront tax credit on the build costs of a resource
- PTC is a 10-year credit
- The IRP has included these credits on all future resources built through 2037
 - Based on location or development, resources can be eligible for a bonus credit – ONLY the location bonus is applied in modeling

Infrastructure Investment and Jobs Act

- This law provides grants or other advantageous financing for projects
- PacifiCorp is pursuing these benefits on projects/investments currently on owned items
- Modeling challenge:
 - PacifiCorp may see reduced cost from developers in the future based on these benefits, but that is not guaranteed
 - From a risk standpoint PacifiCorp has chosen NOT to model any benefits to projects related to this act since these benefits are not guaranteed to pass to customers

Modeling of the U.S. Environmental Protection Agency's 111(d) Rule

This rule has significant limits on emissions

- PacifiCorp is in process of evaluating the impacts on operation of existing units
- Limits on emissions and constraints on how plants are allowed to operate will be modeled
- At this time, it is too early to speculate how the rule will impact the 6-state system as a whole

2025 IRP Public Input Meeting Schedule

<i>2025 IRP Upcoming Meeting Dates and Milestones Calendar Year 2024^{1,2}</i>
Wed-Thurs June 26-27, 2024 – General Public Input Meeting 4
Wed-Thurs July 17-18, 2024 – General Public Input Meeting 5
Wed-Thurs August 14-15, 2024 – General Public Input Meeting 6
Wed-Thurs September 25-26, 2024 – General Public Input Meeting 7
➤ September timeframe – Assumptions are locked down for November and December model runs
<i>Calendar Year 2025</i>
➤ January 1, 2025 - Distribution of the 2025 Draft IRP
Wed-Thurs January 22-23, 2025 – General Public Input Meeting 8
Wed-Thurs February 26-27, 2025 – General Public Input Meeting 9
➤ March 31, 2025 – Filing of the 2025 IRP

1. Washington law accelerates the IRP draft and final filing by 3 months. Alignment for Washington has been achieved through approved parts of a waiver request. The CEIP schedule remains out-of-sync.
2. The Public Input Meeting schedule has been reviewed to reasonably avoid conflicts with State Commission schedules and known events affecting stakeholders.

Feedback Form Update

- Topics received have included comments related to:
 - Regulations related to publication timing/requirements
 - Feedback about the timing of assumptions lockdowns
 - Questions about future resource cost sources
 - Comments related to coal modeling



Additional Information

- 2025 IRP Upcoming Public Input Meetings:
 - June 26-27, 2024
 - July 17-18, 2024
- Public Input Meeting and Workshop Presentation and Materials:
 - [Public Input Process \(pacificorp.com\)](https://www.pacificorp.com/public-input-process)
- 2025 IRP Feedback Forms:
 - [IRP Stakeholder Feedback \(pacificpower.net\)](https://www.pacificpower.net/irp-stakeholder-feedback)
- IRP Email / Distribution List Contact Information:
 - IRP@PacifiCorp.com
- IRP Support and Studies:
 - [IRP Support & Studies \(pacificorp.com\)](https://www.pacificorp.com/irp-support-studies)



Public Comment

What was your biggest takeaway from today's conversation?

Community Benefits and Impacts Advisory Group Calendar

July 18th (Online) | 1:00 – 4:00 pm

<https://esource.zoom.us/j/84476382295?pwd=Uiabzk7ehp4YqV4tp85kBwdp70O1Y7.1>

August 15th (Online) | 1:00 pm – 4:00 pm

<https://esource.zoom.us/j/82774674430?pwd=TD8jGESr9DM6d94tDh3k1FS7ewbDXj.1>

Link: [Oregon Community Benefits and Impacts Advisory Group \(pacificorp.com\)](https://www.pacificorp.com/community-benefits-and-impacts-advisory-group)

Email comments to:
ORCBIAG@pacificorp.com

Pacific Power Stakeholder Engagement

Clean Energy Plan Engagement Series (Online)

When: June 21, 2024

Time: 9:00 am – 12:00 pm

Online: https://esource.zoom.us/meeting/register/tZMtdOqpriwjG9RxDd23Z3jeiF509uyke_33

Clean Energy Plan Engagement Series for Oregon Tribal Nations (Online)

When: June 28, 2024

Time: 9:00 am – 12:00 pm

Online: <https://esource.zoom.us/j/8904308417?pwd=6lJL7RsInby5vwUUYhq53L0yUhrPoB.1>

For more information:

[Oregon Clean Energy Plan Updated Engagement Strategy](#)

Community Benefits and Impacts Advisory Group Post-Meeting Survey

Link: <https://forms.office.com/r/XcZ8qW0w0z>

