

CEP – Community Learning Lab # 5

January 19, 2022



Agenda

10:00 - 10:10 am: Welcome & Meeting Logistics

10:10 - 10:20 am: Community Engagement Update

10:20 - 10:30 am: Resilience Update

10:30 - 10:45 am: Potential CBRE Acquisition Paths Update

10:45 - 11:00 am: Community Benefit Indicators Update

11:00 - 11:15 am: CBIAG Update

11:15 - 11:25 am: Distribution System Plan DG Map Update

11:25 - 11:45 am: Previous Integrated Resource Planning (IRP) December Roundtable Recap

11:45 - 12:00 pm: Next Steps & Closing Remarks

Meeting Objectives

Socialize PGE's approach to Clean Energy Plan concepts

Request feedback on PGE's approach

Provide progress updates on the evolution of information presented in previous meetings & how community feedback has been considered

Share timelines & next steps

Meeting Logistics



Audio



Microphone



Chat box



Video



Raise Hand



Closed Caption



Mural Board

Operating Agreements

Establishing norms with our communities is foundational to building trust

To create a **safe space**, we established **common agreements** such as **respect, honoring diversity of thought** and **inclusivity**

Practice curiosity and **seek to understand different perspectives**

**Stay
Engaged**

**Be Willing To
Experience
Discomfort**

**Speak your
Truth**

**Expect and
Accept Non-
closure**

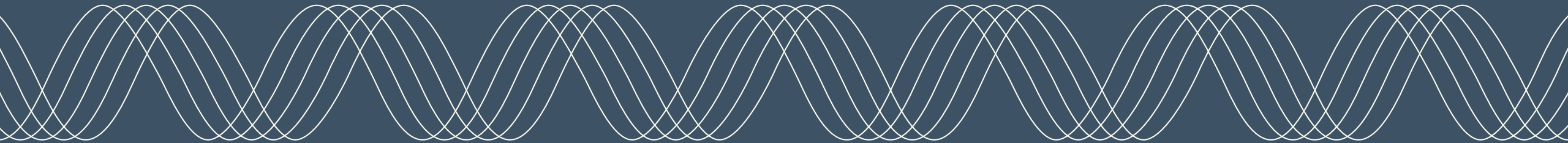
**Share the
Airtime**



[The courageous conversations framework](#)
By Glenn Singleton and Curtis Linton

Community Engagement Update

Presenter: Samantha Thompson, Energy Equity Partner, Distribution Resource Planning
CEP Community Learning Lab # 5, January 19, 2022





Previous CEP meetings

Here you will find all information we've shared during the CEP proceedings – past meeting presentations, video recordings, supplemental materials and our final Clean Energy Plan report.

2022 CEP Community Learning Labs ^

Dec. 14, 2022 CEP Learning Lab 22-4

Agenda (full [video 1](#) & [video 2](#), [ppt](#))

- Previous Clean Energy Plan (CEP) Learning Lab # 3 Recap ([video](#), [ppt](#))
- PGE's Approach to Community Benefit Indicators (CBIs) ([video](#), [ppt](#))
- Community Benefits Indicators (CBIs), **iCBI**, **rCBI**, **pCBI** in the IRP Modeling ([video](#), [ppt](#))
- Resilience Update & Potential Resilience Products ([video](#), [ppt](#))
- Previous Integrated Resource Planning (IRP) November Roundtable Recap ([video](#), [ppt](#))
- Next Steps & Closing Remarks ([video](#), [ppt](#))
- Learning Lab [# 4 Survey](#)

Relationship Building & Informal Engagement



Met with 6 organizations and/or individuals since December 2022



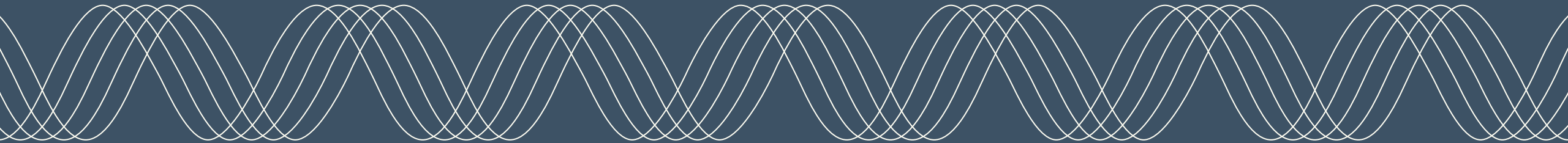
Four new organizations interested in future collaboration and partnership



Roadshow specific presentations from Learning Labs

Resilience Update

Presenter: Angela Long, Senior Manager Strategy & Planning, Distributed Resource Planning
CEP Community Learning Lab # 5, January 19, 2022



UM 2225 Guidance for Resiliency

The first CEP must include **narrative** which describes its **resiliency-related analysis**, including at minimum:



How it was developed

- in coordination with communities served by the utility, including EJ communities &
- with input from stakeholders & Staff



How resiliency risks were considered, examined & weighted

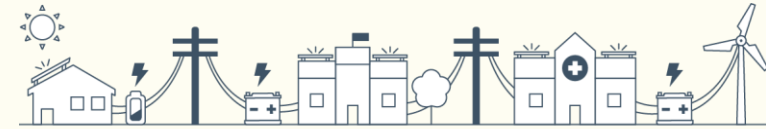


How resiliency opportunities were identified, measured, & weighted



The key resiliency-related actions the utility will prioritize in the action-plan window to support its **CBRE acquisition targets**

Approach



Clean Energy Plan (CEP) Guidelines & Definitions

Develop in partnership with
our Communities



In our last CEP Learning Lab, we worked on expanding our understanding of



- Utility Reliability Performance & Risks
- Customer "Zone of Tolerance"

During today's CEP Learning Lab, we will share a potential strategy in development



- Strategies to Support Community Resiliency
- Methodology for Prioritizing & Weighting Strategies & Projects



Questions & Comments

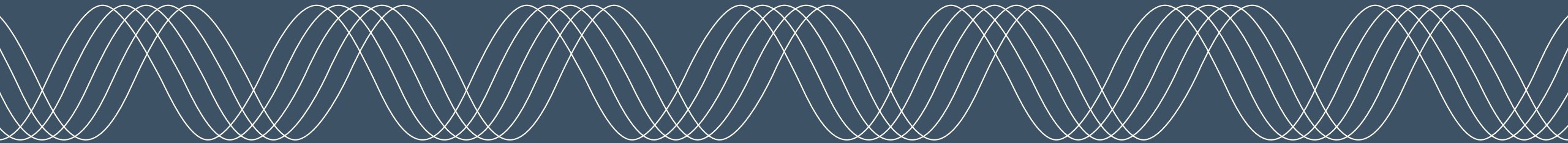


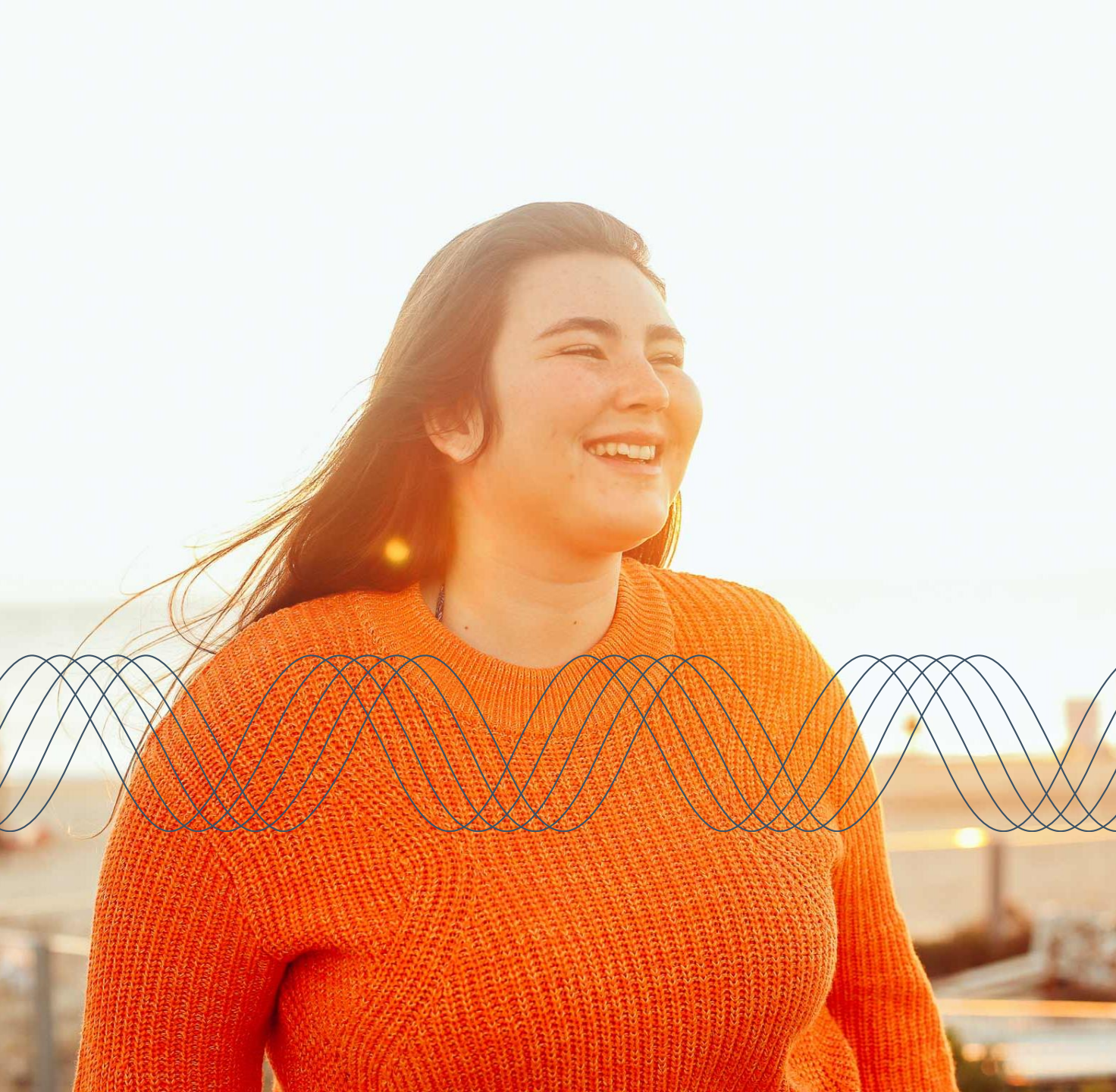
Potential CBRE Acquisition Paths

Jacob Goodspeed, Principal Energy Supply Procurement Originator, Renewable Initiatives

Shiraz Bengali, Senior Energy Supply Procurement Originator, Renewable Initiatives

January 19, 2022, CEP Community Learning Lab # 5





Objective:
Review holistic pathways
for CBRE acquisition

RFP as part of the portfolio of acquisition options

	Wholesale solar + storage	Other non-emitting resources	Community resilience hubs	Oregon Community Solar Program	Rooftop solar	Rooftop solar + energy storage
Definition	Non-greenfield solar development at price bid into competitive solicitation; not otherwise served by programs. Up to 20 MW.	Dispatchable and non-emitting resources otherwise not served by programs. Up to 20 MW.	Building level resiliency - meets VPP flex load need - aligned with capacity need of community sites. Typically, solar + storage.	3 MW green tariff; energy compensation mimics NEM	Solar offsets building load and exports energy to grid; utilizes NEM	Storage shifts generation + provides building resiliency
Procurement approach	Potential CBRE RFP	Potential CBRE RFP	Targeted program	State mandated, capped program	Market driven via NEM	Residential pilot + Energy Partner
Community Benefit potential	<ul style="list-style-type: none"> • Workforce development • Improving grid in vulnerable communities 	<ul style="list-style-type: none"> • Workforce development • Improving grid in vulnerable communities 	<ul style="list-style-type: none"> • Community access hub during outages • Workforce development • Critical facility resilience 	<ul style="list-style-type: none"> • Bill savings • Workforce development (carve out projects) 	<ul style="list-style-type: none"> • Bill savings • Asset investment 	<ul style="list-style-type: none"> • Bill savings • Asset investment • Building resiliency

Next Steps

Continue collaboration and listening sessions with community members

Define acquisition targets through planning process

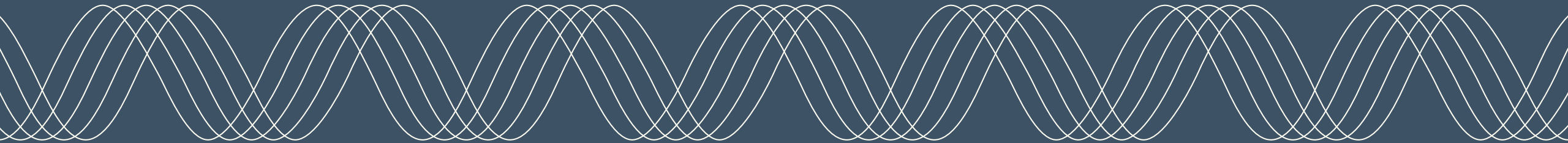
Work to better understand CBI impact on acquisition

Questions & Comments



Community Benefit Indicators (CBIs) Update

Presenter: Angela Long, Senior Manager Strategy & Planning, Distributed Resource Planning
CEP Community Learning Lab # 5, January 19, 2022



Top 3 CBIs ranked by energy advocates & individuals (over 2 Mural sessions)

Voices represented

- Green Energy Institute at Lewis & Clark Law School
- Community Energy Project
- Oregon CUB
- NW Energy Coalition
- OEC
- EMO
- OSSIA
- Individuals

Larger Community Benefits & Priorities

Energy Benefits



Improve efficiency of housing stock in utility service territory, including low-income housing

Non-Energy Benefits



Reduction in number of customers suffering from high energy burden

Environment



Reduction of GHG emissions

Top 4 CBIs ranked by community members over 1 Mural session

Tribal Benefits & Priorities

Larger Community Benefits & Priorities

Voices represented

- Portland
- Ashland
- Medford
- Talent
- Phoenix
- Pendleton
- Warm Springs Tribes
- Forest Grove
- Corvallis
- Washington County

Non- Energy Benefits



Meaningful bilateral engagement between utilities and tribes on siting

Energy Benefits



Low income & vulnerable communities have access to an increasing number of renewable or non-emitting distributed generation resources

Non- Energy Benefits



Reduction in number of customers suffering from high energy burden



Health & community wellbeing

Top 4 ranked CBIs – (combining)

Non- Energy Benefits

Energy Benefits



Reduction in number of customers suffering from high energy burden



Meaningful bilateral engagement between utilities and tribes on siting



Low income & vulnerable communities have access to an increasing number of renewable or non-emitting distributed generation resources



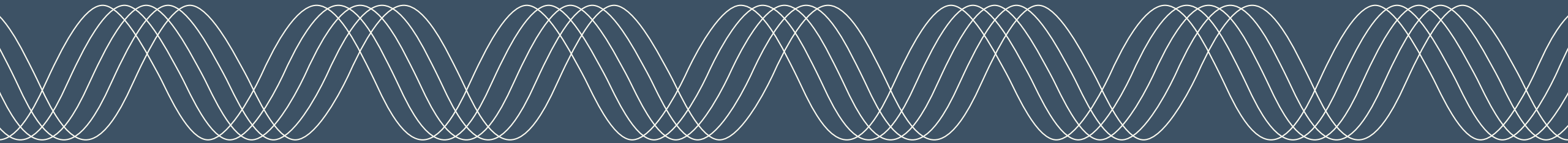
Improve efficiency of housing stock in utility service territory, including low-income housing

Questions & Comments



Community Benefits & Impacts Advisory Group (CBIAG) Update

Presenter: Jenn Latu, Principal DEI Consultant
CEP Community Learning Lab # 5, January 19, 2022



CBIAG Engagement Approach



Phase I - **Nov '22 - Feb '23**

Phase II - **Mar - Sep '23**

Phase III - **Beyond Sep '23**

Ad-hoc Committee

Attendees:

- community based orgs
- community serving orgs
- community members

Facilitation: Interim Third-Party Facilitator (Espousal Strategies)*

Outcomes: Provide recommendation on recruitment and selection of CBIAG members for PGE consideration



Inaugural CBIAG

Attendees: Recruited CBIAG members

Facilitation: Long term Third-Party Facilitator

Outcomes: Develop and implement operational expectations including group governance (e.g., finalize charter), identify and address gaps in energy awareness and knowledge of group members



PGE CBIAG

Attendees: CBIAG members

Facilitation: Long-term Third-Party Facilitator

Outcomes: Advise on topics identified in House Bill 2021, Section 6, including PGE's Community Benefits and Impacts Biennial Report

Community Benefits & Impacts Advisory Group (CBIAG) Implementation

COMPLETE *(as of January 13, 2023)*

- Outreach to and engagement with environmental justice advocates and community members
- Recruitment and convening of Ad-hoc Committee; a planning group facilitated by a third party to provide recommendations on implementing PGE's CBIAG
- Released RFP for PGE's CBIAG long-term third-party facilitator
- Developed draft charter template in partnership with PAC
- Created PGE's internal governance structure for CBIAG and convened group

NEXT STEPS

- Wrap up outreach, recruitment and selection of PGE's inaugural CBIAG members
- Select and onboard long term third-party facilitator
- Begin convening PGE's inaugural CBIAG members and work with them to develop and implement operational expectations including group governance (e.g., finalize charter), create time and space for community building within group, identify and address gaps in energy awareness and knowledge of group members
- Develop topic area content and materials that are accessible to present for advisory to CBIAG



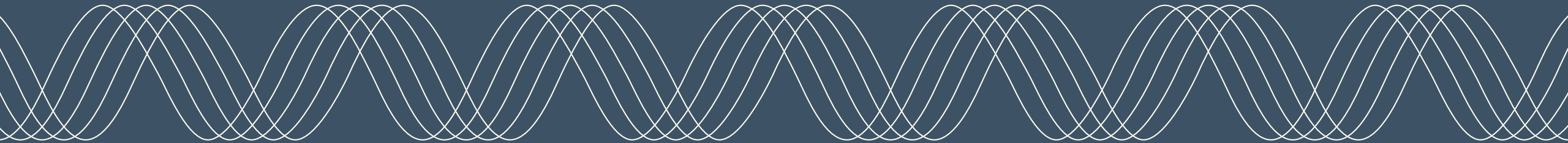
Questions & Comments



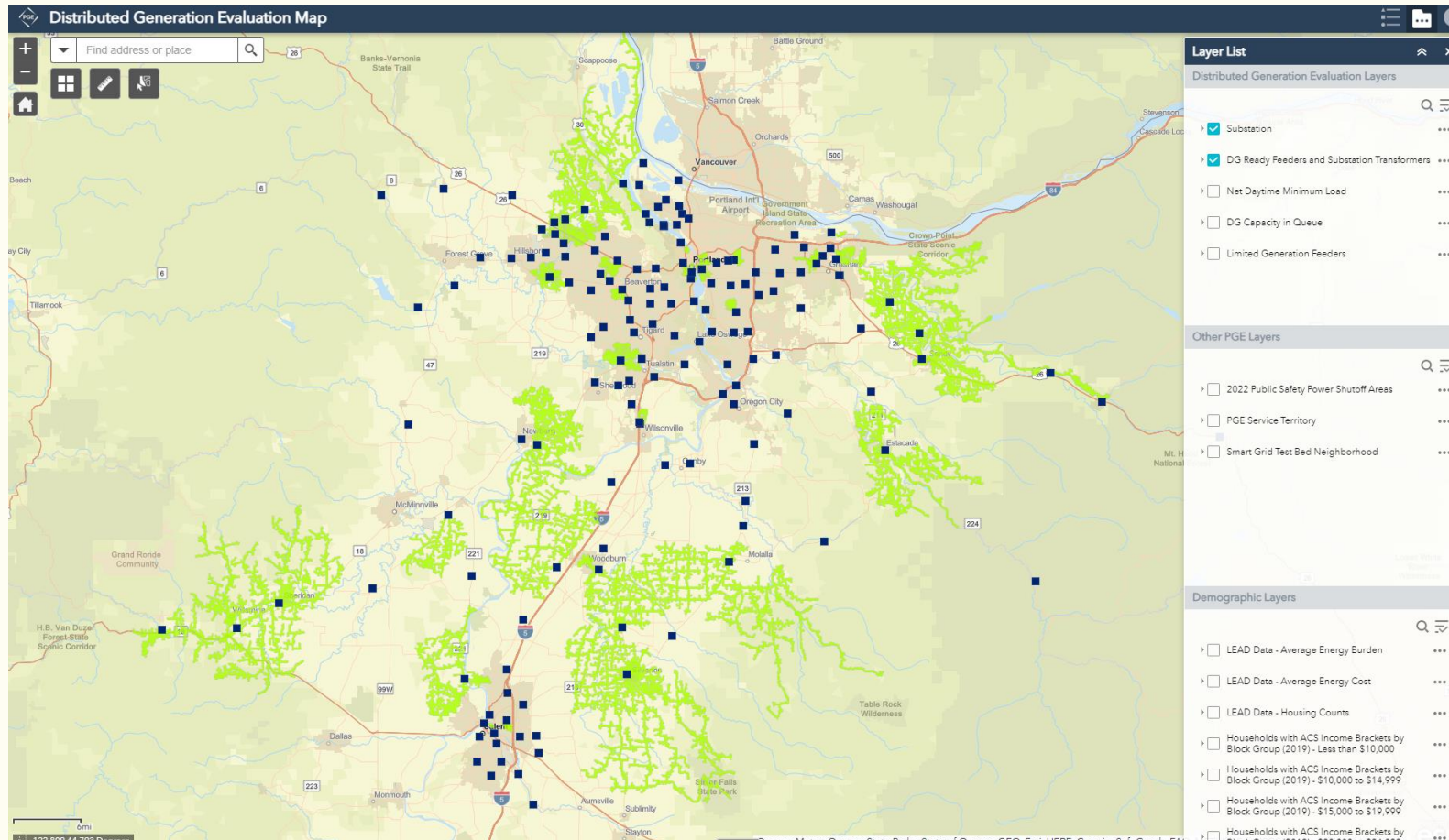
Distribution System Plan - Update

Presenter: Misty Gao, Strategy & Planning Analyst, Distributed Resource Planning

CEP Community Learning Lab # 5, January 19, 2022



Distributed Generation Evaluation Map (data vintage 12/22/2022)



Map can be found under [Distribution System Planning Resources & Materials | PGE \(portlandgeneral.com\)](https://portlandgeneral.com)

Additional resources

[Official materials associate with the UM2005 docket](#)

[Non-wires Solutions \(NWS\) resources](#)

Hosting capacity resources

- [Distributed generation evaluation map](#)
- [Distributed generation evaluation map user guide](#)
- [Distributed generation evaluation map FAQs](#)
- [PGE net metering map](#)
- [OASIS data](#) (Generation Interconnection > Oregon Small Generator Interconnection)
- [Interconnection request](#)

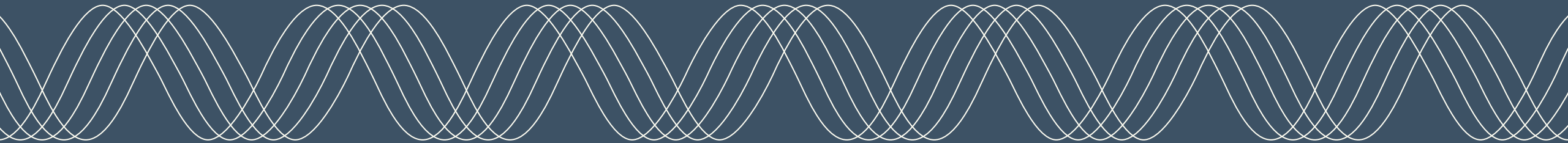
Questions & Comments



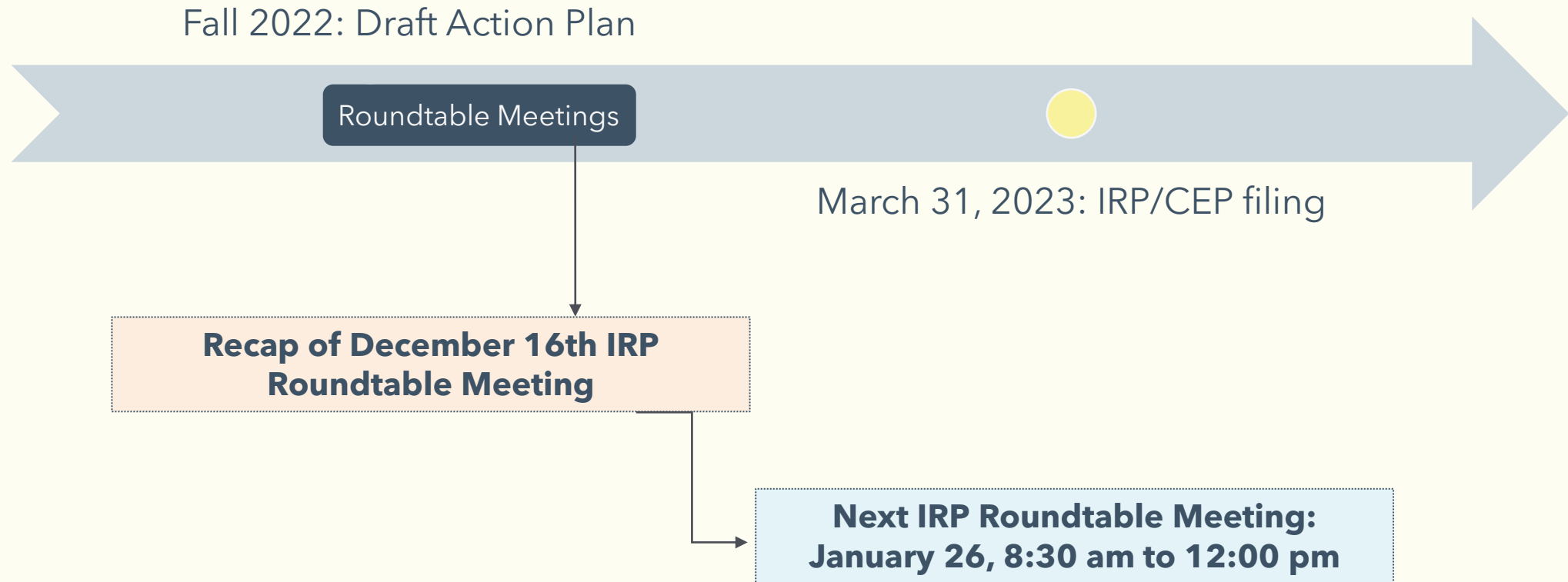
IRP November Roundtable Recap

Presenter: Rainbow Wong, Senior Integrated Resource Planning Analyst, Integrated Resource Planning

CEP- Learning Lab # 4, December 14, 2022



Current IRP Timeline



December IRP Roundtable Meeting Recap

Emissions Forecasting Part II

Reviewed the Greenhouse Gas (GHG) Emissions Model

- Aurora --> [GHG Emissions Model] --> ROSE-E
- Determines the energy and GHG emissions associated to meet retail load

Reviewed PGE thermal units' historical usage and modeling projections

Expected to have a significant increase in capacity need in 2039 and 2040 as GHG generating plants will no longer serve retail load

Discussed thermal units in 2023 IRP, focused on

- Reliability
- Wholesale revenue impact on net variable power costs
- The changing Western Interconnection
- Carbon emissions in the Western Interconnection

December IRP Roundtable Meeting Recap

Price Futures Update

Price future selection for portfolio analysis

- 63 price futures were created in the Aurora simulation
- 42 price futures are selected for portfolio analysis ensuring that the full range of scenarios is captured

Transmission Part IV

- Review: the IRP needs to determine the transmission volumes needed to ensure reliable portfolios as PGE decarbonizes
- PGE performed a Cost-Benefit Analysis of Transmission in ROSE-E of Wyoming wind, Mead solar (Desert Southwest), and South of Allston upgrade

Community Benefit Indicators (CBI) Update

Shared CBI approach from the last learning lab with the IRP roundtable group

December IRP Roundtable Meeting Recap

Portfolio Scoring Metrics

Discussed metrics that influence Portfolio Scoring

- Traditional metrics: cost, variability, severity
- pCBI: community benefits

Draft Portfolio Results

Discussed input data used in Portfolio Analysis

Capacity need and energy position

Load forecast

DER inputs

Market Capacity Study

Flexibility analysis results

Outcome of 2021 RFP

Key assumptions

Reviewed draft Portfolio Results of

Customer portfolios

CBRE resource additions

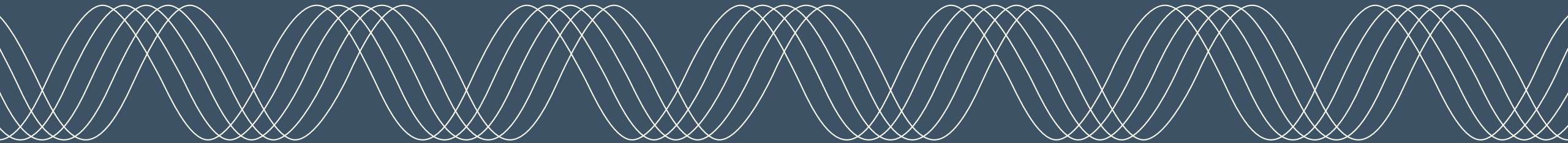
Emerging technologies

Transmission portfolios

Questions & Comments



Next Steps & Closing Remarks



Next Steps and Closing Remarks



Please share your feedback via our [survey](#)



Next CEP Learning Lab will be **Thursday, February 16** from **10:00am - 12:00pm**



Please visit our new CEP website at [Clean Energy Planning \(CEP\) | Portland General Electric](#)



For more information or if you have questions, please email us at CEP@pgn.com

**Let's
meet the
future
together.**



Acronym Key

Acronym	
IRP	Integrated Resource Plan
CBIAG	Community Benefits and Impacts Advisory Group
CEP	Clean Energy Plan
IRP	Integrated Resource Plan
DSP	Distribution System Plan
NWS	Non-wires Solution
CBRE	Community Based Renewable Energy
CBI	Community Benefit Indicator
iCBI	Informational CBI
rCBI	Resource CBI
pCBI	Portfolio CBI
RFP	Request for Proposal
CBO	Community Based Organizations
CSO	Community Service Organizations