From: HERB Kim \* PUC HERB Kim \* PUC To:

UM 2178 Workshop 4a materials and Docket schedule update Subject:

Date: Wednesday, September 29, 2021 6:11:32 PM

Attachments: UM 2178 NGFF Workshop 4a Regulatory Tools Presentation FINAL 9.27.21.pdf UM 2178 Workshop 4a Attendee List.pdf

Dear UM 2178/Natural Gas Fact Finding Stakeholders,

You are receiving this email because you are on the Service List for UM 2178. Staff thanks participants for their time and contributions during Workshop #4a on September 27. Attached is the presentation that was shared during the workshop and the workshop attendee list. At the meeting Staff indicated that it would be proposing additional deadlines for stakeholder comments, those additional dates are listed below in blue. The docket schedule will be updated to reflect these additional dates. As a reminder, the date for the next Regulatory Tools meeting was changed from October 11 to October 12. The agenda for that meeting will come in a separate email.

Date	Event	
Tuesday, October 12, 2021	Workshop #4b: Regulatory Tools Continued - Application - Date change	
Tuesday, October 26, 2021	Stakeholder Comments on Regulatory Tools - NEW	
Wednesday, November 17, 2021	Alternative Scenario Compliance Models posted and associated data posted	
Friday, December 3, 2021	Stakeholder Comments on Alternative Scenario Compliance Models - NEW	
Friday, December 10, 2021	Report Draft Posted	
Monday, January 3, 2022	Stakeholder Comments on Draft Report - NEW	
Monday, January 10, 2022	Workshop #5: Report Feedback	
Monday, February 7, 2022	Final Report Posted	
Thursday, February 17, 2022	Stakeholder Comments on Final Report - NEW	
Thursday, February 24, 2022	22 SPM	

All workshop 4a and 4b meeting materials, including recordings, will be posted on the website and in the docket shortly and Staff will notify those on this list as soon as they are posted.

Best, Kim

Kim Herb (she/her)

**Utility Strategy & Planning Manager Oregon Public Utility Commission** 

C: 503.428.3057

Kim.herb@puc.oregon.gov \*\*\*New Email Address\*\*\*

# Natural Gas Fact Finding

Workshop #4a: Regulatory Tools - Overview





Share information about existing and nascent regulatory tools

# Meeting Objectives



Deepen stakeholder understanding of tools and applicability



Updates on existing tools

## PUC Staff Introductions

#### Staff Host/Facilitators:

- Kim Herb Utility Planning and Strategy Manager
- JP Batmale Administrator: Energy Resources & Planning Division
- Zach Baker Senior Energy Policy Analyst

Time	Topic
10:00 - 10:10	Introduction / Workshop Overview
10:10 - 10:30	Workshop 3 Summary
10:30 - 12:00	Regulatory Assistance Project - Regulatory Tools Overview and Q&A
12:00 - 12:30	DEQ Climate Protection Program Update and Q&A
12:30 - 1:30	Lunch
1:30 - 2:15	Existing PUC Tools and Activities
2:15 - 3:00	Next Steps - Preparing for Workshop 4b

# Agenda



# Participation Tips

- Please join audio by either phone or computer, not both
- Today's Zoom will be a "meeting" which will allow for direct interaction with presenters and participants
- □ For discussion and comments, use "Raise Hand" button to get in the queue; if joined by phone press \*9
- □ Rename yourself with your name and affiliation
- Say your name and affiliation before speaking

### Discussion/Comments Ground Rules



Honor the agenda and strive to stay on topic



Provide a balance of speaking time



Listen to understand and ask questions to clarify



Stay engaged and be open about your perspective and experience



Address issues and questions - focus on substance of comments without attacking others



Bring concerns and ideas up for discussion at the earliest point in the process

## Chat Availability

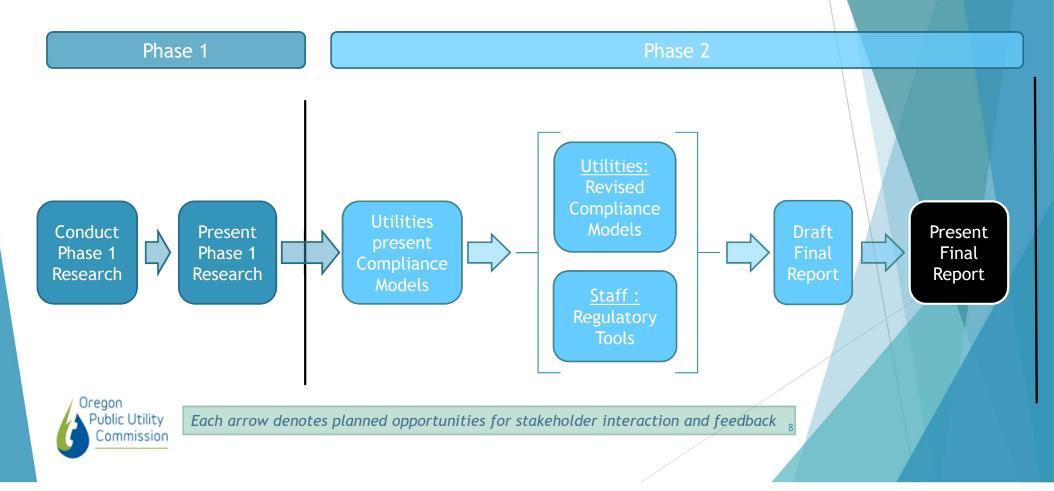


Chat is unavailable during presentations. Please raise your hand to ask clarifying questions.



Chat is available during the Q&A sessions and will be moderated by Staff - or raise your hand to verbally ask a question.

## Phases & Engagement



# **Schedule Changes**

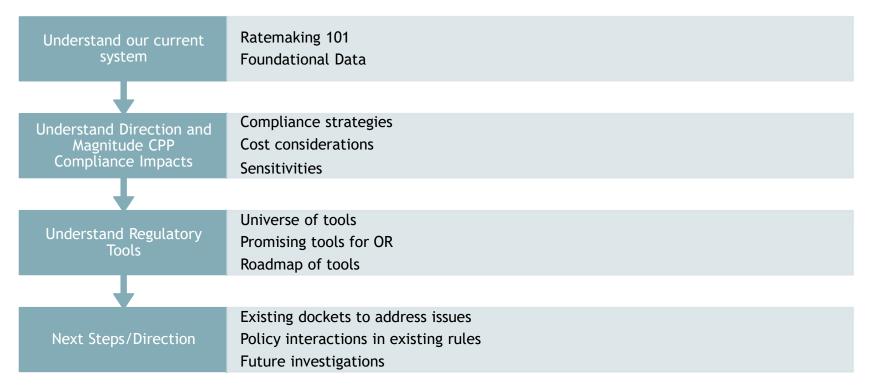
Date	Event
Friday, September 24, 2021	Stakeholder Comments on Modeling and Alternative Scenarios
Monday, September 27, 2021	Workshop #4a: Regulatory Tools Overview
Wednesday, September 29, 2021	Alternative Scenario Proposals drafted and posted by staff
Tuesday, October 12, 2021	Workshop #4b: Regulatory Tools Continued - Application - Changed
Wednesday, November 17, 2021	Alternative Scenario Compliance Models posted and associated data posted
Friday, December 10, 2021	Report Draft Posted
Monday, January 10, 2022	Workshop #5: Report Feedback
Monday, February 7, 2022	Final Report Posted
Thursday, February 24, 2022	SPM

# UM 2178 - Natural Gas Fact Finding Desired Outputs

An understanding of potential natural gas customer bill impacts associated with compliance with GHG emission targets from DEQs Climate Protection Program.

Identification of strategies / tools to equitably mitigate potential harm to natural gas customers and/or incentivize action.

## NGFF Approach and Process



# Workshop 3

CCP Compliance Modeling Workshop



## **Discussion Questions**

- 1. What are your initial thoughts on the modeling results?
- 2. How do these results inform your thoughts about the upcoming webinars on regulatory tools?
- 3. What is one other alternative scenario you think would be important to model to inform the regulatory tools discussion?
- 4. If electrification is determined to be a scenario to be modeled, by either the utility or staff, what suggestions do you have for inputs and/or methodology?



## **Discussion Questions**

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# Regulatory Tools Overview

Regulatory Assistance Project



September 27, 2021

# **Regulatory Tools Overview**

#### UM 2178 Natural Gas Fact Finding – Public Workshop #4a

Megan Anderson Associate Mark LeBel Associate Elaine Prause Senior Associate

# **Issues and trends**

THE WHITE HOUSE



Administration Priorities COVID-19 Briefing Room Español

MENU

Q

BRIEFING ROOM

### **FACT SHEET: President Biden Sets** 2030 Greenhouse Gas Pollution Reduction Target Aimed at Creating Good-Paying Union Jobs and Securing U.S. Leadership on Clean Energy **Technologies**

APRIL 22, 2021 . STATEMENTS AND RELEASES

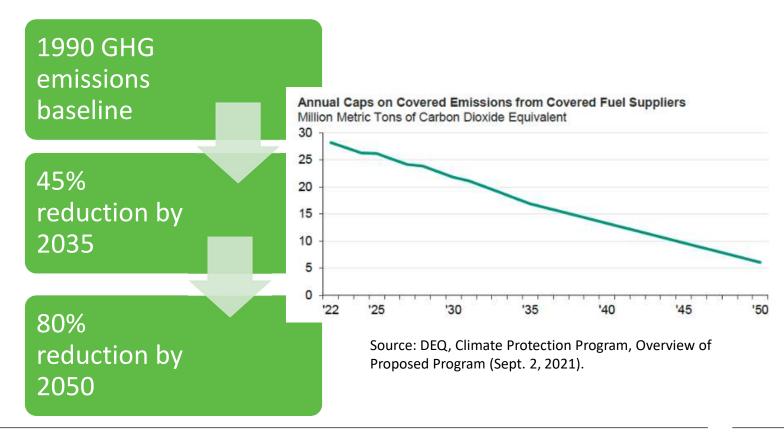
Building on Past U.S. Leadership, including Efforts by States, Cities, Tribes, and Territories, the New Target Aims at 50-52 Percent Reduction in U.S. Greenhouse Gas Pollution from 2005 Levels in 2030

# Oregon HB-2021

- Retail electricity service provider must reduce greenhouse gas emissions:
  - 80 percent by 2030
  - 90 percent by 2035
  - 100 percent by 2040



# **Oregon Targets in EO-20-04**



# UM 2178: Natural Gas Fact FindingInvestigation - Purpose

- Analyze the potential natural gas utility bill impacts that may result from limiting GHG emissions of regulated natural gas utilities under the DEQ's CPP
- Suggest appropriate regulatory tools to mitigate potential ratepayer impacts
- To inform future policy decisions and other key analyses to be considered in 2022

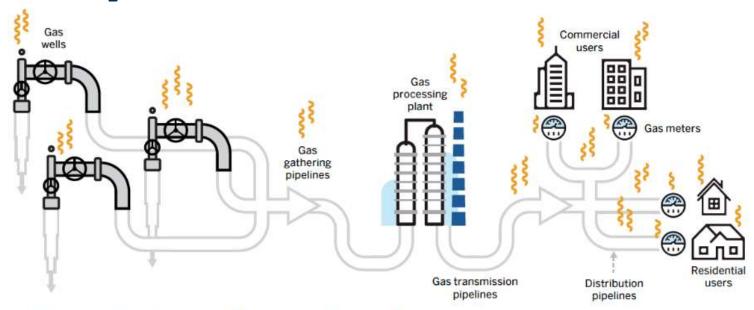
# Other trends impacting customer base and throughput

- More stringent building codes and env. regulation
- Energy efficiency programs
- Energy-efficient gas appliances
- Electrification



22

# **Sources of Trends: Climate Policy and Safety Concerns**



Note: Methane is colorless, but for purposes of illustration, leakage is represented in yellow.

Source: The Gas Index. (2020). The United States' Natural Gas System Has a Serious Problem: It Leaks

# Results: Potential increases in Oregon gas system costs

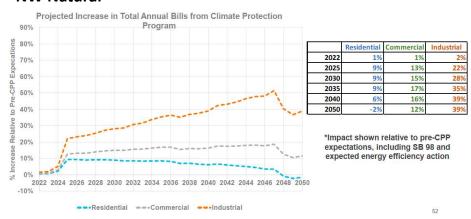
- Infrastructure and safety upgrades across the system to enable alternative fuels
- Infrastructure upgrades to address leakage
- Increased commodity prices of natural gas and/or other fuels
- CCIs



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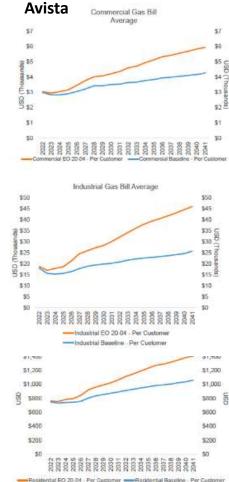
# Higher gas bills likely

#### **NW Natural**



#### **Cascade Natural Gas**





## Potential gas customer impacts

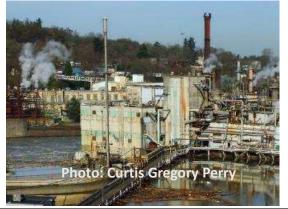
- Higher cost of service likely due to changing system
- Potential for customer and load attrition
- Potential for stranded assets- who pays?

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# Meeting customer energy needs in the public interest







# **Categories of Regulatory Tools**



**Planning** 



**EE and Other Programs** 



**Ratemaking** 

# **Equity Is Integral**

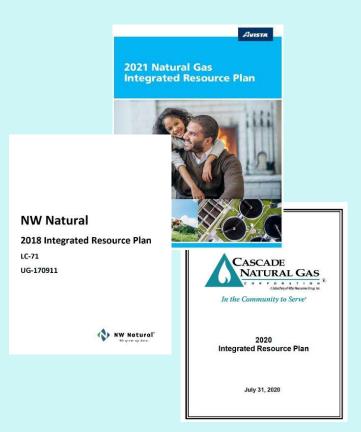
- Robust and inclusive processes to ensure that everyone's needs are considered and planned for
- Programs that are accessible and put disadvantaged communities at the forefront of the transition to clean energy
- Rate-making reforms can mitigate risk of unsustainable rate increases and avoid unfair bill impacts on low-income customers

Q&A

# **Expand Planning**

# **Oregon Planning**





# **Gas Planning Process**

#### Lay the foundation

- · Require inclusive, robust stakeholder process
- · Set planning within policy context
- · Coordinate with related processes

#### Develop a system map

- · Assess existing infrastructure
- · Identify current customer base
- · Analyze demand, supply and risk

#### **Explore alternative scenarios**

- · Develop scenarios
- Model scenarios
- · Consider transition planning

#### Create action and transition plans

- · Short-term action plan
- · Long-term transition plan

Prepare for next process

# Expand and coordinate stakeholder processes

- Inclusive, robust stakeholder processes
- Set planning within policy context
- Coordinate with related processes

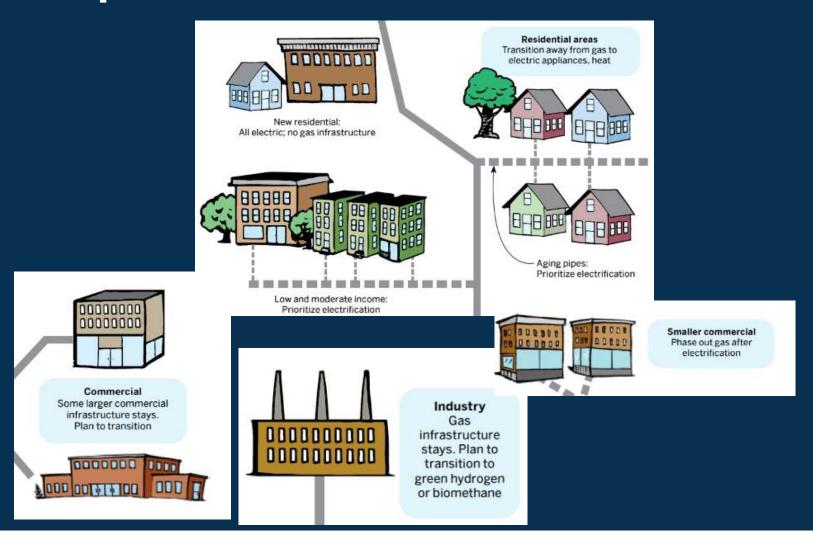


## **Develop a Dynamic System Map**

Layers of information can facilitate system planning

- Assessment of existing infrastructure
- Identification of current customer base
- Analysis of demand, supply and risk

# **Explore Alternative Scenarios**



# **Develop Decarbonization Plans**

- Develop decarbonization plans within the IRP process to incorporate changing circumstances
- Consider ways to integrate gas and electric planning to consider all options together
- Planning is a "no regrets" tool ensures that regulators have the info they need to make decisions about utility filings

Q&A

# **B**rograms and Policies



# Revisit Underlying Policies to Unlock Compliance Options

### EE Cost Effectiveness

 Ensure avoided costs reflect updated planning assumptions

Have benefits changed? Is there additional information

### Electrification

Modify fuel switching policy

Potential Assessment

Determine CE Approach

Goals and attribution

#### **Related Rules**

Created in prior context

Unforeseen limitations or contradictions

Examples include SB 98, SB 844

# **Coordination of Electrification**

- Set goals in terms of primary energy or in terms of emission reductions
- Allow gas utilities to earn credit for contribution to electrification goals



# **Target Programs for Equity**

- Focus on weatherization
- Equitable access to new technologies
- Consider changing cooling and heating needs

# **Target Programs for Locational Impact**

- Integrated with more granular planning
- Expand "non pipeline" alternatives
- Demand response
- Minimize new infrastructure capital investment and

operational expense



burce: urapnic concept inspired by Ass., U., Manone, A., Subin, Z., Mac Kilnon, M., Lane, B., & Price, S. (2020). The Charlenge of Retail das in California's Low-Carbon Future: Technology Options. Customer Costs, and Public Health Benefits of Reducing Natural Gas Use; graphic modified by RAP.

# **Expand Programs to Transport Customers**

- Assess the potential for EE in Transport
- Currently no funding mechanism in place, limiting factor

# **Explore Pilots and Studies to Test Key Uncertainties**

- What's the research question?
  - Technical, programmatic, customer acceptance, joint gas/electric approaches, safety, H2 end use applications...
- Small cost/risk endeavor with potential for scaling cost effectively
- Limited time and budget
- What can we learn quickly by doing?

Q&A

# 4 Reform Gas Rate-Making



# **Full Universe of Contributors**

- Current and future gas customers
- Other customers served by a future restructured "gas" utility
- Electric customers
- General funds and tax incentives
- Gas utility shareholders
- Others?

# **Key Rate-Making Principles**

- Effective recovery of revenue requirement and access to reasonably priced capital
- Customer understanding, acceptance, and bill stability
- Equitable allocation of costs
- Efficient forward-looking price signals
- Achievement of public policy goals
  - Efficient competition and control of monopoly pricing
  - Reliable provision of service
  - Societal equity (e.g., affordability)
  - Environmental and public health requirements

## **PUC General Powers**

### OR Stat. § 757.400(1)

In addition to the powers and duties now or hereafter transferred to or vested in the Public Utility Commission, the commission shall represent the customers of any public utility or telecommunications utility and the public generally in all controversies respecting rates, valuations, service and all matters of which the commission has jurisdiction.

In respect thereof the commission shall make use of the jurisdiction and powers of the office to protect such customers, and the public generally, from unjust and unreasonable exactions and practices and to obtain for them adequate service at fair and reasonable rates.

The commission shall balance the interests of the utility investor and the consumer in establishing fair and reasonable rates. Rates are fair and reasonable for the purposes of this subsection if the rates provide adequate revenue both for operating expenses of the public utility or telecommunications utility and for capital costs of the utility, with a return to the equity holder that is:

- (a) Commensurate with the return on investments in other enterprises having corresponding risks; and
- **(b)** Sufficient to ensure confidence in the financial integrity of the utility, allowing the utility to maintain its credit and attract capital

# Approaches to Lower Rate Base and Decrease Risks of Long-Term Rate Impacts

- 1. Update customer contributions to line extensions
- 2. Accelerate depreciation timelines
- 3. Improve planning and decision criteria for new investments (and contracts)
- 4. Explore alternative funding sources or authorization for securitization

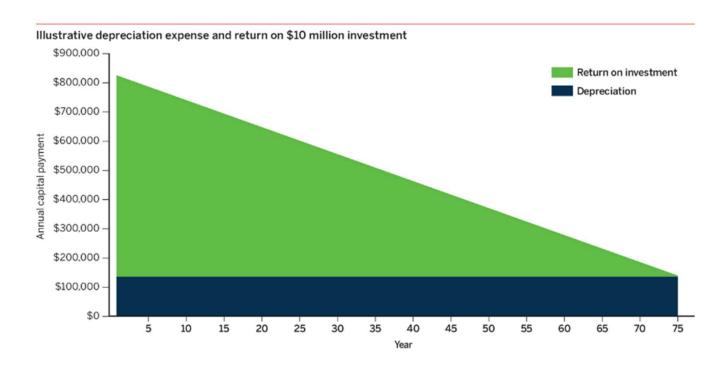
### **Update Customer Contributions to Line Extensions**

- Line extension allowance formulas dictate how much a utility is allowed to invest in new infrastructure for new customers
- Updated calculations would likely reflect changes to expected gas usage and different probability of changes in gas system customers

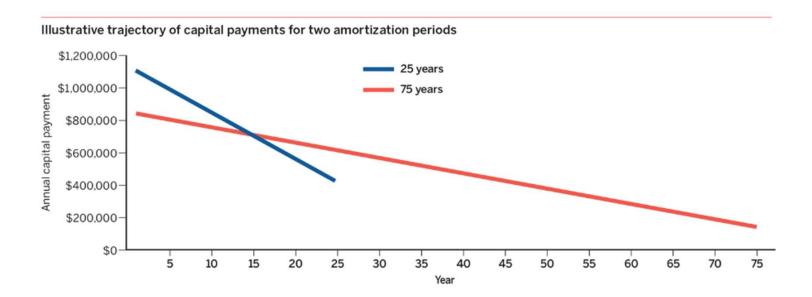
# **Repaying Utility Capital Investments**

- Depreciation expense is based on the original cost of each investment, which is spread over the asset's projected lifetime
- Return on investment is based on the rate base and the weighted average cost of capital
  - Rate base is defined as original cost minus accumulated depreciation

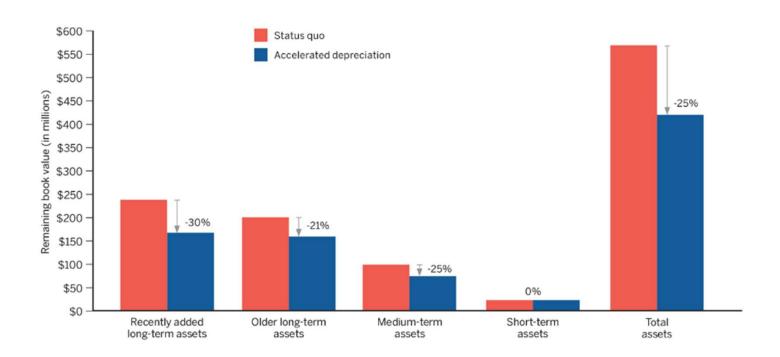
# Payments for a Long-Lived Utility Capital Investment



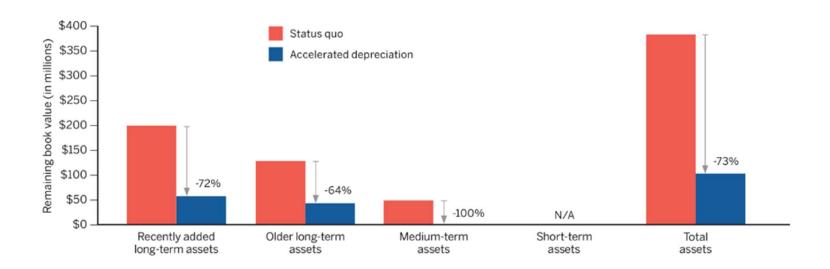
# **Changing the Depreciation Timeline**



### Pre-2021 Asset Book Value in 2031



### Pre-2021 Asset Book Value in 2041



# **Equitable Cost Allocation**

- Customer-related costs should be determined using the basic customer method, not the minimum system method
- Recovery of shared capacity costs should be balanced between energy throughput and peak demand based on load patterns
- Program costs can be allocated based on the benefits provided by the investments
  - For some programs, a split between electric customers and gas customers is appropriate when feasible

# **Efficient Rate Design**

- Higher prices in peak seasons are appropriate
- Even higher prices or incentives to reduce on peak days are appropriate for many customers
- Inclining block structures with higher levels of inexpensive usage in the winter can balance efficiency and concerns about bill impacts for low-income gas heating customers

	Summer	Winter
First 20 therms	\$0.50 per therm	N/A
First 60 therms	N/A	\$0.50 per therm
Additional usage	\$1.29 per therm	\$1.29 per therm

# **Low-Income Rate Structures**

- Separate class/subclass with own allocation and rates
- Discount on general residential rates
  - Percentage discount (e.g., 25% off of bill)
  - Flat monthly \$ discount (e.g., \$20 off of bill)
  - Tiered percentage or monthly \$ discounts
- Percentage of income payment plan
  - Cap bill at 6% of household income

# **Change Gas Utility Incentives**

- Adopt decoupling using overall revenue target, not revenue per customer
- Implement performance-based regulation
  - Multi-year rate plans
  - Eliminate unnecessary trackers
  - Performance incentives for achieving important consumer and public policy outcomes

### **Potential Structural Reforms**

- Green gas delivery
- Fusion with electric utility
- Add zero-GHG district energy
- Become a heating services provider
- Convert to publicly owned entity or coop
- Others?

Q&A

# 5 Takeaways



# What to Keep in Mind

- An elevated and expanded focus on utility planning and regulation is required with GHG reduction targets.
- Impact of changes will be significant, regardless of chosen pathway
- PUCs will need to:
  - Evaluate alternatives based on evidence
  - Protect gas customers in short and long term
  - Avoid unneeded investment

# Climate Protection Program Update

Colin McConnaha, Oregon Department of Environmental Quality



Lunch Break 12:30 - 1:30 Pacific



# PUC Existing Regulatory Tools and Activities: Programs & Planning

# PUC Existing Regulatory Tools and Activities



## **Programs**

Energy Efficiency
Targeted Demand Side Management
Demand Response
Pilots for new supply
New technologies



## **Planning**

Intergrated Resource Plans
Policy Interactions

### **Programs**

### **Energy Efficiency**

• UM 1893 Investigation Into the Methodology and Process for Developing Avoided Costs Used in Energy Efficiency Cost-Effectiveness Tests.

### Targeted Demand Side Management

• UM 2155 NWN Application for Authorization to Defer Certain Costs Associated with Phase 3 of the Geographically Targeted Energy Efficiency Pilot

SB 98 / SB 844

### **Demand Response**

Last NWN IRP

# **Planning**

#### **Policy Interactions**

- HB 2021 impact on IRPs and EO 20-04 work
- RNG Rules (AR 636 OAR Chapter 860, Div 150)
- Voluntary GHG reduction (SB 844)

### **Integrated Resource Plans**

- Northwest Natural
- Avista
- Cascade
- Portland General Electric
- Idaho Power
- PacifiCorp

# Planning - Gas IRPs

Company	Docket	Status	Anticipated Next Filing Date	How to get involved
NW Natural	LC 71	2018 IRP Update Order No. 21-274	July 29, 2022	Engage with NWN to participate in 2022 IRP Techncial Working Group.
Avista	LC 75	Seeking acknowledgment of 2021 IRP at October 14, 2021 Public Meeting.	Feb 2023	See most recent Staff Report recommended interim actions and engage with Avista to participate in future IRP working groups.
Cascade	LC 76	2020 IRP Acknowledged April 28, 2021. See Order No. 21-127	Aug 2022	Engage with Cascade to participate in 2022 Technical Advisory Group.

# Planning - Electric IRPs

Company	Docket	Status	Anticipated Next Filing Date	How to get involved
PacifiCorp	LC 77	2021 IRP filed on September 1, 2021	Summer 2023	<ul> <li>Join service list for LC 77.</li> <li>Join PacifiCorps IRP list on their website</li> <li>Participate in 10/1/2021 post-filing public-input meeting</li> </ul>
Portland General Electric	LC 73	2019 IRP Update Order No. 21-129 filed May 3, 2021.	Spring 2022	<ul> <li>Join PGE IRP list on their <u>website</u></li> <li>Participate in their next Roundtable on 10/21/2021.</li> <li>Join PUC service list for next IRP when filed.</li> </ul>
Idaho Power	LC 74	2020 IRP Acknowledged June 4, 2021. See <u>Order</u> <u>No. 21-184</u>	December 31, 2021	Engage with Idaho Power to participate in 2021 IRP Advisory Council meetings.

# Ratemaking

Futher discussion in October 12, 2021 Workshop









# Workshop Details

Workshop Workshop Workshop Workshop Workshop Workshop #4a #4b #1 #2 #3 #5 7/20/21 9/14/21 01/10/22 5/27/21 9/27/21 10/12/21 Foundational Initial Model Data Results Regulatory Overview & Regulatory **Draft Report** Tools -Background Tools Feedback Discuss Alternative Application Modeling Scenarios

# Workshop 4B – October 12

We want to hear from you:

- What tools are missing?
- Which tools are most relevant/important to Oregon? Now vs. later?
- How would you prioritize which tools to advance and when?

# Closing Remarks and Feedback



# Thank you!

#### EO 20-04 Website

https://www.oregon.gov/puc/utilities/Pages/ExecutiveOrder20-04.aspx

### **Comments or Questions**

Email Staff with questions at one of the addresses below. Comments can be emailed to staff or directly to <a href="Puc.Publiccomments@puc.oregon.gov">Puc.Publiccomments@puc.oregon.gov</a>. Comments will be posted in the docket.

#### **Contacts:**

Kim Herb: 503.428.3057 kim.herb@puc.oregon.gov

JP Batmale: 503.551.9926 jp.batmale@puc.Oregon.gov

Zach Baker: 503.881.4072 <u>zachariah.baker@puc.oregon.gov</u>



#### UM 2178 Workshop #4a September 27, 2021 Attendee List

The attendee list only includes the names as shared on Zoom and may be missing information

Abby Alter

Megan Anderson - RAP Zach Baker - OPUC JP Batmale - OPUC Shawn Bonfield - Avista Kevin Booth - Avista

Ryan Bracken - NW Natural Rebecca Brown - NW Natural

Michael Brutocao - Avista Natural Gas Samantha Christenson - NW Natural Hannah Cruz - Energy Trust of Oregon

Calli Daly

Nikita Daryanani - Coalition of Communities of

Color

Ashton Davis - CNGC Angus Duncan

Patrick Ehrbar - Avista

Jason Eisdorfer

Edward Finklea - Northwest Industrial Gas Users

Amanda Ghering - Avista Mike Goetz - Oregon CUB

**Kylie Grunow** 

John Gunnells - American Gas Association

Kim Herb - OPUC
Bob Jenks - Oregon CUB
Clint Kalich - Avista
Scott Kinney - Avista
Dan Kirschner - NWGA
Zach Kravitz - NW Natural
Abbie Krebsbach - Cascade

Mark LeBel - RAP

Tamy Linver - NW Natural
Tim Lynch - Multnomah County

Lauren McCloy - NWEC Colin McConnaha - DEQ Lisa McGarity - Avista

Devin McGreal - Cascade Natural Gas

Kevin McVay - NW Natural

Chris Mickelson - Cascade Natural Gas

Rose Monahan - Sierra Club Vincent Morales - RNG Coalition

Kathy Moyd - LWVOR Eric Nelsen - NW Natural Alina Nestjorkina - PGE Sudeshna Pal - Oregon CUB Tom Pardee - Avista Utilities

Mike Parvinen - CNG

Melanie Plaut

Elaine Prause - RAP

Johanna Riemenschneider - DOJ

Decker Ringo

Brian Robertson - Cascade Natural Gas

Greer Ryan - Climate Solutions

MardiLyn Saathoff - NW Natural

Carra Sahler - Green Energy Institute

Erin Saylor - Columbia Riverkeeper

Amy Schlusser - Green Energy Institute

Marcus Sellers-Vaughn - Cascade Natural Gas

Dan Serres - Columbia Riverkeeper

Ryan Sigurdson - NWN Natasha Siores - NW Natural Rebecca Smith - ODOE

Alyn Spector - Cascade Natural Gas

Matt Steele - DEQ

Brian Stewart - Electrify Now

Chad Stokes - AWEC

Silvia Tanner - Multnomah County Dave Vant - Climate Solutions Sam Wade - RNG Coaltion Kyle Walker - NW Natural Stefanie Week - NW Natural Robert Wyman - NW Natural Jessica Yarnall - Sierra Club Jen Yocom - NW Natural

Phil Zirngibl