



In the Community to Serve®

Targeted TAG #7 Meeting

Date & time: 9/23/2026, 9:00 AM to 10:30 AM

Location: Microsoft Teams Meeting

Presenters: Brian Robertson, Noemi Ortiz, Kirten Brewer

In attendance: Abbie Krebsbach, Arabella Blomstedt, Brian Robertson, Bruce Folsom, Caleb Reimer, Carolyn Stone, Chad Stokes, Devin McGreal, Eric Wood, Gordon Gimse, Jason Verduzco, Jenny De Boer, Jodie Albert, Kai Hiatt, Karen Magana, Kathleen Campbell, Kirten Brewer, Lucas Hamilton, Mark Sellers-Vaughn, Matt Steele, Megan Koelzer, Michael Meyers, Noemi Ortiz, Paul Koenig, Ryan Denton, Ryan Kern, Shawna Nieraeth, Vigilija Klima, Zachary Sowards

Brian Robertson, Supervisor of Resource Planning, opened the meeting by welcoming and thanking stakeholders for participating in Cascade's IRP Process. Brian reminded folks that we wouldn't be doing introductions at the beginning of the meeting but asked if/when people interjected throughout the meeting to please introduce themselves.

Presentation #1 – Safety Moment (Brian Robertson)

- How to respond to emergency situations without your phone.

Presentation #2 – Low Carbon Alternative Fuels (Brian Robertson)

- Brian discusses the study from ICF that provides detailed assessment of different types of fuel-RNG, hydrogen, synthetic methane, carbon capture, geologic storage, and how this will be used in the IRP.
 - RNG: Brian discussed some of the ins and outs of RNG facilities: How they work, what types of facilities there are, etc.
 - Hydrogen: Different types of hydrogen power; blue, turquoise, green, pink, gold.
 - Renewable Thermal Certificate/Credit: Market-based instrument to incentivize use of renewable energy sources. Specifically just for heating and other thermal applications.
 - Synthetic Methane: Combine green and pink hydrogen with CO₂
 - Carbon Capture: Process where pure stream of CO₂ from industry separated, treated, and transported to storage locations. Seven customers in WA.

Q (Paul Koenig): What entity handles these credits?

A (Devin McGreal): Yeah, so it's CleanCounts. They formerly were known as M-RETS. But then they also help administer and facilitate on the RTC market as well.

Presentation #3 – Electrification (Brian Robertson)

- Have looked at full home electrification model: Would it be cost effective for customers in a certain area to electrify?
- Brian goes over some of the key inputs that were used in the model.
 - Heat Pump: efficiency for different temperatures.
 - Coefficient of Performance: Heat pump efficiency and Heat Pump Heating

- Coefficient of Performance and Cost: COP and Heating Cost Per Hour.
- Federal Energy Incentives: Brian discusses some changes to the federal energy incentive programs that affect fuel switching.
- Install Costs with Rebates and Incentives: Brian discusses some more of the methodology of the installation costs of the full home electrification program.
- Annual Cost Preliminary Results (Whole Home): Looking at what the annual costs would be to electrify for each different income groups and compares to gas.
- Levelized Cost: Same thing as above, but levelized over the years rather than having a large lump sum at the beginning.

Q (Paul Koenig): The massive jump in the Levelized Cost in 2031, why did that happen?

A (Brian Robertson): That's because of the IRA incentives ending during that from when this was modeled in the previous IRP. We're using some of the statewide rebates and incentives.

Presentation #4 – Plexos Modeling (Brian Robertson)

- Brian explains a little bit about the Plexos model and software and how Cascade is planning on using it: Resource optimization, attempting to meet demand and emission modeling in a least cost manner.
 - Analyze variety of resource portfolios
- Discusses some of the challenges of modeling with Plexos.
- What inputs does Plexos use?

Presentation #4 – Resource Integration (Brian Robertson)

- Brian goes through what Cascade is doing to quantify resource integration:
 - Going to go through a reference case that uses expected customer growth and pricing with traditional and low carbon fuels, current policies in place, climate model.
 - All portfolio models: Least cost, accelerated electrification, electrifying low income only, hybrid heating future, low carbon alternative fuels, etc.
- Brian discusses some of the different scenarios:
 - Low vs regular customer growth
 - CCA/CCP vs HB 1257 vs CCA needs with emissions reductions vs cap and trade.
 - Different weather/climate predictions.
 - Low Carbon Alternative Fuels using Monte Carlo sims.
- Equity-Focused Portfolio Analysis:
 - Making sure there are no disproportionate impacts in bill impacts, energy burden, reliability, using tech-neutral decarbonization.
- Role of Equity Analysis in Portfolio Selection:
 - Puts equity lens on everything, trying to make sure there's no disproportionate impacts.

Presentation #5 – Weatherization as an Equity Strategy (Noemi Ortiz)

- Noemi explains how weatherization can be used effectively as a strategy for equity.
 - Benefits all residential rate classes by reducing overall energy demand and cost.
 - Fewer emissions from Greenhouse Gases.
 - Reduces the burden on low-income customers by lowering cost from lowering demand.
 - Weatherization produces system benefits and equitable access.
- Noemi goes through some of the most affected communities from the program, first in WA and then in OR.
- Noemi talks about current federal, state, and local bill assistance programs in both WA and Oregon for low income customers.

Q (Paul): For the HICs, what are the differences since some of these that have stars next to them or not?

A (Noemi): Overall they are not considered to be HICs but they have some certain parts of them are highly impacted, like food security.

Presentation #6 – Non-Gas Benefits of Non-Pipe Alternatives (Kirten Brewer)

- Kirten goes through Cascade's plan to incorporate IMPLAN, an economic development software into The Company's analysis of Non-Gas benefits of Non-Pipe Alternatives.
 - Goes into a quick explanation of how IMPLAN works and what it is.
 - Shows IMPLAN screenshots of how the analysis would work using arbitrary numbers.
- Kirten asks for suggestions and questions if anyone wants to know more about IMPLAN or has any new things to suggest,

Post Presentations –

Brian asks for feedback for clarification since there is a new Oregon IRP rule 860-090-0060(7)(g)(E).

No further questions.

The Meeting was Adjourned

Per Cascade Commitment #8 (Stakeholder Engagement Design Document, 2/22,2022: "Provide TAG minutes that include the action items from bullet #7 as well as any upcoming deadlines for feedback on the IRP"), here are additional action items to track, coming out of the TAG meeting:

1. No action items from Targeted-TAG 7