



# RETAC Q4 2023 Meeting Notes

December 14, 2023

8:30 a.m. – 12:40 p.m. (Pacific)

Microsoft Teams Webinar

## Meeting Attendees

Bing Liu, Pacific Northwest National Laboratory (PNNL)

Srinivas Katipamula, PNNL

Matt Iris, Avista

Axel Pearson, PNNL

Ruth Taylor, PNNL

Josh Quinnell, MN CEE

Gabe Arnold, PNNL

Suzanne Frew, Snohomish PUD

Kevin Smit, NW Power & Conservation Council

Todd Greenwell, Idaho Power

Carmen Cejudo, PNNL

Joshua Butzbaugh, PNNL

Kenji Spielman, Energy Trust Oregon

Samuel Rosenberg, PNNL

Vrushali Mendon, PNNL

Julia Rotondo, PNNL

Jamie Spangle, PNNL

Mark Heizer, State of Oregon

Linda Sandahl, PNNL

Juan Serpa Munoz, Eugene Water & Electric Board

Jeff Wanner, PNNL

Edward Louie, PNNL

Ron Welch, Avista

Keshmira McVey, BPA

Christian Valoria, PNNL

Jessica Kelly, PNNL

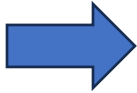
NEEA Staff: Eric Olson, Noe Contreras, Becky Walker, Christopher Dymond, Wendy Preiser, Kathryn Bae, Geoff Wickes, Kristen Aramthanapon, Lynne Mosley

## Meeting Agenda

<b>Welcome and Announcements</b>	Eric Olson	NEEA
<b>PNNL Emerging Technology Update</b>	Bing Liu, Srinivas Katipamula, Axel Pearson, Ruth Taylor, Gabe Arnold, Joshua Butzbaugh, Vrushali Mendon	Pacific Northwest National Laboratory (PNNL)
<b>Water Heating Update</b>	Geoff Wickes, Noe Contreras Keshmira McVey	NEEA BPA
<b>Residential HVAC Update</b>	Christopher Dymond, Noe Contreras	NEEA

## Resources

- Agenda and Packet Materials: [Northwest Energy Efficiency Alliance \(NEEA\) | Q4 2023 RETAC Packet](#)
- Slide Deck: [Northwest Energy Efficiency Alliance \(NEEA\) | Q4 2023 RETAC Slide Deck](#)
- Q4 Emerging Technology Newsletter: [Northwest Energy Efficiency Alliance \(NEEA\) | Q4 2023 Emerging...](#)
- Session Recording: [Q4 RETAC Recording](#)

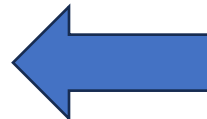


To watch all, or parts, of the Q4 meeting, click the link above to navigate to the recording on Vimeo. The video contains “chapters” for each agenda segment. To skip directly to a particular chapter, click the icon in the red square below. This will bring up a chapter listing. From there, you can select the segment you wish to view.



If you wish to follow along in the [slide deck](#) as you view the recording, the relevant chapter slides are referenced below:

- Welcome & Introductions – Slides 1-13
- PNNL ET Update – Slides 14-76
- Water Heating Update – Slides 79-109
- Residential HVAC Update – Slides 110-137



## Welcome, Announcements

### Approved 2024 Meeting Dates:

- Q1 – Thursday, March 28
- Q2 – Thursday, June 27
- Q3 – Wednesday, September 25
- Q4 – Thursday, December 12

### Upcoming conferences:

#### January 2024:

1/5 - 1/7 - Las Vegas, NV - [IEEE Rising Stars Conference](#)  
1/9 - 1/12 - Las Vegas, NV - [Consumer Electronics Show](#)  
1/10 - 1/11 - Long Beach, CA - [CEE Winter Program](#)  
1/20 - 1/24 - Chicago, IL - [AHR Expo and ASHRAE Winter Conference](#)  
1/30 - 2/1 - Chicago, IL - [Midwest Energy Efficiency Alliance Conference](#)

#### February 2024:

2/4 - 2/7 - Groveland, CA - [Dry Climate Forum](#)  
2/5 - 2/8 - San Antonio, TX - [AESP Annual Conference](#)  
2/19 - 2/22 - Washington, DC - [IEEE Integrated Smart Grid Technologies Conference](#)  
2/27 - 2/29 - Las Vegas, NV - [Building Science Symposium and International Builders Show](#)

### March 2024:

3/12 - 3/14 - Savannah, GA - [EPRI 2024 Conference](#)  
3/12 - 3/14 - Atlanta, GA - [ACEEE Hot Water & Hot Air Forum](#)  
3/24 - 3/27 - Las Vegas, NV - [2024 HVACR Education Conference](#)

### Product Council

Do you have a topic you would like to see NEEA cover in an upcoming Product Council? Visit [Northwest Energy Efficiency Alliance \(NEEA\) | Product Council Submit...](#) to submit your idea, or contact [productcouncil@neea.org](mailto:productcouncil@neea.org).

**Upcoming Sessions:** (Tuesdays, 10:30 a.m. – 12:00 p.m. PDT, unless otherwise noted)

➤ February – Date TBD – Low-Load Efficient Heat Pump Virtual Tear Down – Cadeo Group

*Additional sessions are being confirmed. Watch the website for more information!*

## Poll Questions

What is one thing you appreciated about this meeting?

- PNNL
- Emerging Tech research
- Broad overview

What would you like to see at a future meeting?

- Market Research
- Load Flex
- Indoor agriculture energy use, especially beyond lighting

How would you rate the overall value of Product Councils this year?

Very Valuable

Somewhat Valuable

Not very valuable

I generally don't attend.