



Q4 Products Coordinating Committee (PCC)

Day 1

December 3, 2024

1:00 – 4:00 p.m.

Virtual Meeting

Meeting Attendees

Committee Members: Carolyn Beebe [Snohomish PUD (SNOPUD)], Lars Henrickson [Seattle City Lights (SCL)], Lis Saunders (Tacoma Power), Tyler Boehringer (Emerald PUD), Trevor Frick (Clark County PUD), Jay Olson [Pacific Power (PAC)], Christian Douglass (Northwest Power & Conservation Council (NWPPCC)), David Murphy [Bonneville Power Administration (BPA)], Todd Greenwell (Idaho Power), Haley Puntney (Inland Power), ShaToya Parker [Bonneville Power Administration (BPA)], Dustin Levesque [Puget Sound Energy (PSE)], Thad Roth (Energy Trust of Oregon), William Dixon [Puget Sound Energy (PSE)]

NEEA Staff: Anouksha Gardner, Alisyn Maggiora, Alexa Hujik, Emily Rosenbloom, Stephanie Quinn, Suzi Asmus, Jesse Nienow-Macke, Anne Brink, Tamara Anderson, Kristen Moreno, Eugene Pham-Gittens, Ryan Clark, Britt Cutsforth-Dawkins, Steve Seminario

Resources

- Agenda Packet: <https://neea.org/committee-documents/q4-2024-pcc-agenda-packet>
- Slide Deck: <https://neea.org/committee-documents/q4-2024-pcc-meeting-slides>
- Recording: [Q4 2024 PCC Meeting Day 1 on Vimeo](#)

Welcome and Packet Review

1. Meeting Packet Highlights
2. Collective Role – Working Together – Please come prepared to participate!
3. Agenda Overview – Regional Roundtable, Consumer Products, Retail Products Portfolio, Housekeeping, Recap and Next Steps for Tomorrow
4. Packet Review Reminder – Tier 1: Agenda Items, Tier 2: Program Activity Reports, Tier 3: Additional Resources and Reference Material

Introductions and Regional Roundtable

Icebreaker: If you could add any snack to the kitchen at your work, what would it be?

Additionally: Name, Organization, and Highlights since Q3 of 2024 (Programming and Org Updates)

Carolyn Beebe – Snohomish PUD

- As of 2025 we are going to reduce the EV [electric vehicle] charger rebate from \$200 to \$50. Also, in Q1 we are going to change the Front Load Washer from \$25 to \$50 and keep Top Load at \$25 to try and incentivize the Front Load washers.

- For the State HEAR [Washington State Home Electrification and Appliance Rebates] program they have their first heat pump water heater installed. They are going to send out more batches of invitations. 50 were sent out for clothes washer dryers and 19 folks have ordered.
- **Emily R:** How many invitations did you send out for HPWH [heat pump water heaters]?
- **Carolyn:** 52 total. Last week we had 8 customers from the 52 actually place an order. John Petosa might have more information on that, but we have at least 8 so far who have participated.

Christian Douglass – NWPCC

- In the throes of power planning at the council. A lot of our advisory committees are running full steam and moving on an aggressive timeline for the next power plan.
- If you're interested on getting into that process, please reach out to Christian. He will send you in the right direction!

ShaToya Parker and David Murphy – BPA

- Program review going on. Opportunities for new possible measures, changes and updates.

Todd Greenwell – Idaho Power

- There were a lot of changes in 2023, so 24-25 is going to be a lot of watching and data gathering from the previous changes.
- Vetting the state energy codes for
- New construction is going well. Trying to push Multifamily incentives since there is a new program for that, but we are still doing about 18,000 new units a year so its growing.
- Mostly waiting for what the Federal Government is going to be doing for the next few years and how incentives.
- **Trevor:** What are you guys looking at for new Multifamily?
- **Todd:** The market here, they can't build structures fast enough. It's about 50/50 with 20plex and 6plex vs. Duplex etc. we are using a re
- **Trevor:** What about Energy Star certification for Multifamily? We have been offering it for the last few years, but we haven't gotten a lot of builders to use it.
- **Todd:** At the pace its going, it's like trying to talk to someone going in a car at 80 mph. A lot of the properties have gas.

Trevor Frick – Clark PUD

- All the big changes that happened in October of 2023 with heat pump programs were thrilling but there wasn't a lot of changes for 2024. But we are looking to more formally offer the variable speed, heat pump and new construction measure, you know it's a \$200.00 willingness to pay through BPA. So we want to go ahead and get that out there.
- We offer the New Homes Performance Path program, and a lot of builders are building above code but they don't participate in that program because the incentives are somewhat low compared to all the expenses. They are hoping that the rebate can capture some of the savings there. Hired a new staff member as a program coordinator who has been a hug help.
- HEAR program has been going well. We offer rebates on HPWH and Ductless Heat Pump. The heat pumps for heating rebates don't cover the full cost of the system, so the customer does have to put some money toward the system install. It does cover about 80% and we have approved around 40 installations since we launched the program 7 weeks ago and we have income qualified about double that number total. We will probably run out of funds before the contract deadline is up in June, but we did get word from the Department of Commerce they will be issuing more funds in the Spring.

- It's been slow in the HPWH front with the HEAR program (only 1 has been HPWH and 39 have been space heat). We set the grant rebates at a full cost of install, but we haven't gotten a lot of traction there. But we are early into the program, so we are leaving about 1/3 of funding specifically for the HPWH.
- **Emily R:** What is the HPWH set up?
- **Trevor:** If its 50 gallon its \$4k, 65 gallons \$4,500, and 80 gallon is \$5k and according to Great Northwest installations, they thought they would be able to run with that as long as it was a fairly straightforward install, like a garage install for example.
And I've had a couple other contractors say that that should cover the full cost in most scenarios. That's why I've been a little puzzled by they haven't made more traction, but we're going to start doing more direct outreach to customers that come through our other bill assistance program.
- We are going to start doing more direct outreach to our customers who come through bill assistance programs.
- **Todd:** When you say HEAR program you're talking about the 501-22 from the Feds?
- **Trevor:** Its misleading because the WA DOC have a lot of funds that were generated through the Climate Commitment Act, so they reused the naming convention for these programs which makes it confusing because the Federal Government used the same acronym.
- **Todd:** So it's not a fuel switching program, its just an efficiency upgrade?
- **Trevor:** The orgs that were awarded grants were given the opportunity to choose how they wanted to use their funds. Some people have made it a fuel switching program, but at Clark we are just opting to focus on offering the ones that we can claim refunds for BPA. But there are programs focused on Decarb and Electrification.
- **Lis:** Question about the Heat Pump Program; you said that customers are having to put some money toward the installations. What percentage of the total cost is coming out of pocket?
- **Trevor:** We set our rebate structure on willingness to pay Rebate up to \$6k for central heat pumps and \$9k for ductless heat pumps. We have seen a lot of \$12-16k ductless going in. And for the central systems we have seen people bid out at \$14k which is significantly less than their previous
- **Lis:** Do you give your contractors any guidance on what you're willing to pay?
- **Trevor:** They know what the rebate structure is, but the customer can get as many bids as they want from any of our contractors, so they are competing against each other rather than using the rebate. Almost every contractor has gone through the instant rebate pass. So we are trying to turn it around in 3-6 weeks to keep that momentum going.

Lars Henrickson – Seattle City Light

- Incentive for ductless heat pumps AND for low income/multifamily.
- Added package terminal heat pump
- Increased HPWH rebate to \$750
- HEAR Funding (state of WA) is being used to add additional funding to our midstream program. The target there is small businesses (50 or fewer employees). This should be free/almost free HPWH.
- Sometime in Q1 hoping to have a third party start to manage our rebates and add a downstream rebate for heat pump.
- Working on Whole Home Program; helping customers to think about their homes as a system and give them the info they need about upgrades (weatherization, windows, etc.) and giving them rebates.
- Long term planning on the new Products and Services strategy
- **Suzi:** Could you talk a little bit more about your downstream heat pump rebates?
- **Lars:** We don't have the exact amount yet, but our resource plan shows that we really can value \$2k a month on heat pump and we will still have the midstream rebates which is fuel agnostic.
- **Trevor:** Multifamily ductless heat pump program. What are you guys using for income threshold?

- **Lars:** Typically, we use 3 different income thresholds that we are trying to align right now. The easiest thing we can do to qualify a building is to see if 50% or more of the customers in the building qualify for the program. The qualifications are 70% of the median income or less for the state.
 - **Trevor:** We have been opening it up to more privately owned
 - **Lis:** Ditto to Trevor's comment on Multifamily DHP.
 - **Todd:** What opened that door for you?
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- **Christian:** I love to hear that too, and that's the direction we are taking with the plan and Integrated Resource Plan. Not all savings are equal
 - **Lars:** The days of the average megawatt are coming to an end.

Lis Saunders – Tacoma Power

- Hollis Tamura is retiring at the end of this month, so if you want to drop her a line, I am happy to provide her email to you so you can reach out. Lonnie has been hired as her backfill, which creates a new position which we will be hiring next year.
- How we increase our loan funds has been our focus. We are hoping to get more funds or reconfigure the program so it's not all held in deferred loans for our low-income customers.
- HEAR grant funds from WA state. Working with the City of Tacoma, focused on non-electric heat and gas water heat and replacement with a heat pump or heat pump water heater. Customers qualify at 60% AMI. We had an overwhelming response and have committed all our funds. Hoping for additional HEAR funds from Pierce County for customers in Tacoma Power service territory but outside City of Tacoma limits.
- Biggest thing we learned was to not give contractors NOT TO EXCEED amounts. Most bids came in right under those amounts, so we need to rethink that.
- **Thad:** What is the amount for the NOT TO EXCEED amount? We would be interested to collect any of these NTE from other utilities and sharing our numbers as well.
- **Lis:** So, the NTE amount is \$23,000.
- **Thad:** Is this all-Single family and not multi?
- **Lis:** Single Family. I have talked to Jon Petosa at SNOPUD where he did HPWH program at a fixed price and he told the contractors to tell the utility what the fixed price was rather than utility telling the contractors what we're willing to pay.
I thought that was a very interesting way to go about.
- **Carolyn:** From what I know, he gathered from our trade ally list who was interested in participating and had honest conversations around pricing and what this costs so we can could get an idea of a price from those discussions.
- **Thad:** I'm not sure how it works outside of OR, but when it comes to installing heating systems in some of these homes, have you had any issues with community action agencies?
- **Lis:** We have partnerships with some Community Action Agencies, and we refer customers to them when we do a pre-inspection and will work with the agency to pay for that.

Thad Roth – Energy Trust of Oregon

- Wrapping up a no cost ductless heat pump program for single and multifamily homes.
- Residential team is Single Family and Manufactured Homes. Commercial team is Duplex and larger.
- **Suzi:** Wha kind of plan do you have for reporting? Are you doing a webinar to report out results from the pilot?
- **Thad:** We did do an interim report at the last conservation advisory council meeting. We might also include a board presentation meeting when we have more data to share.

- **Christian:** Could you speak to the kind of costs you're seeing from the contractors or what the cap is for them?
- **Thad:** You can reach out to Ryan Cruise or Marshall Johnson for more detail. But we try to articulate a cost for a single and double head systems and I think they cap out at \$6200-6500 on single. They might also have other funding from community-based orgs (like Oregon Department of Energy, etc.) that we may not be able to see.

Dustin Levesque and Will Dixon – Puget Sound Energy

- **Dustin:** Currently \$750 for water heaters, but in 2025 the everyday rebate will increase to \$850 with our retail program
- **Dustin:** Co-Deploying demand response for multiple utilities so you will need to sign up for the second half/end of Q2 launch.
- **Will:** The weatherization program has made a huge difference in numbers signing up. Another thing were running is the HEAR program which is a \$5k rebate on heat pumps.
- **Carolyn:** Will PSE continue to provide rebates on smart thermostats for gas heated homes in 2025? We have been referring our customers to PSE's marketplace.
- **Will:** We sure will. Another thing we're learning on therms in general is that most of the DIY community in this area have already gotten them. The rest of the existing customers who would like them also want them installed for them. So we are hoping to find ways to work with that.
- **Emily R:** Dustin, did you say customers will need to sign up for DR to get water heat EE incentives?
- **Dustin:** That is correct. We are still in the ideation phase; I am working closely with our DR team to see what level we're doing. Either smart flex where we're taking control of the water heater or OTHER OPTION. So a lot to work through.
- **Emily R:** If you want to reach out and talk about it, please let me know.
- **ACTION: Emily, Dustin, and Mitch (Dustin's counterpart) to reach out and set up a meeting to avoid pitfalls.**

Tyler B – Emerald PUD

- Busy with generator rebates. We have had too many ice storms and need to help customers with non-energy related incentives, so this has quickly become the largest rebate program we have. It's keeping our folks busy and doesn't save any kWh hours which is difficult.
- Trying to get some more momentum on rebates for HPWH and it's been a hard group to reach since the installers are making money and don't seem to need them.
- Fortunately, we have had a lot of custom retail projects which are helping us reach our goal numbers for the quarter/year.
- **Christian:** Wondering if you're collecting data that you would be willing to share on the generator program you're running? Manual or Automatic switches?
- **Tyler:** 3 months ago, we just launched a Gener-Link option as well. And it's both Manual and Automatic, the focus is on safety in whatever you're willing to install.
- **Christian:** There seems to be an indirect resilience savings with regards to weatherization. A way to monitor that would be on these systems, so I might be knocking on your door for data we're interested in.
- **Tyler:** We do ask for heating type, location, gas/natural gas/diesel back up, I don't think we ask for weatherization, but we could pull any of that info for you as you need.

Jay Olson – Pacific Power

- Home Energy Reports Program; we are now becoming a two season event. We historically have seen most of our savings come from winter, but we are now seeing a few months of the summer with 0 savings. So we are working out how to communicate options for customers that will help them save on their heating bills in 2025.

- Home Energy Savings – we tried a pilot in 2024 for an online Heat Pump Water Heater platform which would allow customers to walk through a few questions to see if they were a good candidate for a Heat Pump Water Heater. We only achieved 15 for the year, so we are going to cut it as a pilot. I was surprised the vast majority of the people who went through the program were self-installers, so a bit of insight as to how DIYers are searching for benefits and using the system.
- In 2025 we will launch a private property tree planting program with Arbor Day Foundation. Either through event pick up, drop off at home, or mail. Hoping to get 300 trees planted throughout the year, there will be specific kinds of trees offered based off of time of year and location.
- IRA funding, we did no HEAR funding.
- Anne B: Curious on the tree planting. Are you doing that to save on cooling costs? Is it a carbon project?
- It's mandated by the state as long as its cost effective. All in its \$60k for all marketing, delivery, and trees, We don't achieve a lot of kWh for it but there will be. This is all to be done in highly impacted communities.
- Todd: We did a tree program for 7-8 years at Idaho Power if you need any help, we are happy to assist.
- **ACTION: Todd and Jay to connect offline about the Tree program.**

Kristen Moreno – NEEA

- The memo in the activity report on page 8 is an FYI that we are going to start doing surveys with HVAC installers in the next few weeks. Please reach out to her via the email address in the memo if you have any additional questions.

Suzi Asmus – NEEA

- In the activity report provided I wanted to highlight that Christopher Dymond has been working directly with the RTF [Regional Technical Forum] and some of you [NEEA Funders] on cold climate measure development and also on a connected commissioning specification group. If you are not currently involved but want to be, please reach out to Christopher Dymond. [cdymond@neea.org]
- If you have been following the low load efficiency testing at University Labs that took place this summer, Christopher is leading a follow-up tear down workshop Monday and Tuesday [December 9-10] which we will report out about in 2025.
- There is a new Advanced Heat Pump Coalition working group that is less technical and focused on program managers. If you are interested in joining, we have a meeting on the calendar for Q1. Please reach out to me if you want to participate or just be on the mailing list so you can join when a topic is pertinent to you.

Tamara Anderson – NEEA

- High-Performance Windows; working on finalizing energy Star v7 study which will be done by EOY. The Lenar project has also been finalized.
- We are also being awarded the Innovation Collaboration prize for the Grande Rond project we completed in 2023.

Emily Rosenbloom – NEEA

- We did officially launch the Hot water Innovation prize. This is a three-phase contest to help bring split systems into the market to swap for low boys. There is a link on the activity report to participate or read more information about this program.
- Completed market research (qualitative) to understand call backs with HPWH. This research will be turned into qualitative research and be released at the end of 2025 with MPER 8.

- For those who don't know, Jeff Wicks is retiring in 13 days from NEEA. He has had a huge impact on NEEA and specifically HPWH. We do have additional PM's supporting this program, so please reach out if you have any questions.

Anne Brink – NEEA

- We are starting to support Televisions. Right now, we have an ad campaign running on bestbuy.com that started in early Nov and will end in May. This is guiding people to purchase energy star TV's.
- Looking for an additional retailer for TV's (hopefully Costco).
- For fridges, we submitted comments to the EPA in July and were at a meeting to discuss this with them.

Regional Priority Topic – Efficient Fans Program Updates

Desired Outcome:

Presented by Anne Brink, Ryan Clark, and Eugene Pham-Gittens

Notes: Jesse Nienow-Macke

Anne Brink, Program Manager of NEEA's Retail Products Portfolio (RPP) Program, led the committee through a discussion of affordability for ENERGY STAR and non-ENERGY STAR products, specifically clothes washers and refrigerators. The presentation focused on recent research insights from webscrape data from Home Depot and Lowe's around product options for cost conscious consumers, what features enable efficiency and are there any opportunities within the RPP program to address the availability of ENERGY STAR units at price parity with non-qualifying units. Anne started out by covering the data on refrigerators, specifically on units that are over 10 cubic feet, because the bulk of the market is over 10 cubic feet. Refrigerators were broken up into 2 categories, top mount freezers, and bottom mount freezers. One of the main takeaways from the top mount freezer data was that non-qualified units dominate the market, at 73% market share. One correlation that was made was that ENERGY STAR units don't have many features, which seems to be a major selling point for non-qualified units. For bottom mount freezers, Anne showed that there are many more ENERGY STAR sales than non-qualified units. However, part of the reason for this is that ENERGY STAR has different specifications for different refrigerator configurations, so meeting ENERGY STAR criteria for bottom mount units could be easier to achieve than top mount units. Following refrigerators, Anne went over the analysis for clothes washers, broken up by top load and front load units. The overall takeaway for clothes washers was that most top loading ENERGY STAR units are larger sizes due to increased efficiency, and that there is a potential for low-priced ENERGY STAR front load units.

Questions/Discussion:

1. Question: Do you know why ENERGY STAR penetration is so different between top mount and bottom mount?
 - Anne Brink: Because specifications are different between top mount and bottom mount. Something makes it easier to hit ENERGY STAR specifications for bottom mount. This is something we will be looking at this coming year to make some recommendations to ENERGY STAR. Specification is different between top and bottom. For ENERGY STAR, its 10% better than federal efficiency level. All formulas are based on volume of the refrigerator, bottom mount refrigerators tend to be larger. This has been the case for several years.

2. Question: This raises the question, is ENERGY STAR a meaningful metric here? We are interested in how many kWh are going to be used, not if its ENERGY STAR certified. Should we be looking at the kWh, rather than if it's certified. Because you can buy a non-qualified refrigerator that uses less energy than an ENERGY STAR model of a different configuration. How can we make a sensible refrigerator incentive when people are looking at labels rather than kWh?

- Anne Brink: It's possible to find a way to give an incentive for units that use less energy and are not specifically ENERGY STAR. NEEA has an operating principal to not force people to change from one configuration to another, but to make those products more efficient and use less energy. We will look at the ENERGY STAR specification that is coming up this year, but we will also look at the technologies. We need a test procedure that shows that these units are more efficient that have this type of technology, and then we need standards and specifications that incorporate that test procedure into their levels. For bottom mount, you could go with a most efficient category to get more savings.

3. Comment: One thing that surprised me was how prevalent ENERGY STAR was in some of those market segments. This tells me that ENERGY STAR is no longer pushing people to something more efficient if it's so prevalent.

- Response by Anne Brink: The way that ENERGY STAR looks at washers, they are trying to move people to front load over top load. It's in that 60% market share range, which is a good place to be for specification advancement. When we comment on things, we encourage ENERGY STAR to be in a certain market share range so that it can influence standards but still be relevant. If we were going to look at ENERGY STAR relevance, we would need a different analysis than this. In the past, we have gone to ES and shown that ES isn't a differentiator anymore and suggest that it's time for a spec change.
 - Additional response by Ryan Brown: I would add that this wasn't necessarily tied to the way that our program looks at opportunities. This was a broad analysis. Several of these categories have most efficient versions that NEEA is focused on as an energy savings opportunity. This does show that ES has a high market presence, so it probably signals that it is time for a specification change.

4. Question: Is there knowledge of ES sunseting specific products like white goods/durable goods?

- Anne Brink: I haven't heard of any intention to sunset products. I can't speak to the reason they are doing that in specific categories. It seems like the goods that ESRPP operates with are still coming out with new specs and advancing modes.

5. Question: Do we know current breakdown in sales between top-load and front-load?

- Anne Brink: Top load has larger market share percentage over front load. It's about 60-70%. It has been about that way for 5 years.

6. Question: Are there opportunities for programs that this type of analysis might identify? Is this helpful to folks? Do you want us to research other areas?

- Lars Henrikson: Maybe. Can we put a value on the process of administrating? This points out that there is a big challenge with using ES as a marker for running a program. If a base unit uses 600 kWh a year, and an ES unit uses 500 kWh, it's hard to build a program around 100 kWh/year of savings. It may not be a utility program, and be something that works better upstream, and maybe there is a better role for NEEA there than utilities.
- Anne Brink: On bottom mount refrigerators, savings are higher on the advanced models, as well as on heat pump dryers. We are hoping to see an increase in Most Efficient models if we can get an alternate test procedure through to show an increase in savings.

7. Question: Was the Most Efficient category something that was looked at in this analysis?

- Answer by Anne Brink: Because this was focused on affordability, it wasn't something that was specifically highlighted. If we did look at that, it would be a different analysis.

8. Question: Who are the US manufacturers of these products?

- Anne Brink: GE is still a brand name. I don't know off the top of my head who is US based. The big name brands are still GE, Whirlpool, Frigidaire, LG, Samsung, Media, Bosch. I'm not sure if being US based is still part of the equation.
- Todd Greenwell: We formed relationships with the heat pump water heater manufacturers that helped us make lots of progress. It would be good to form those relationships with US based appliance manufacturers.
- Anne Brink: We do have some manufacturer relationships in the program. We typically influence them through the retailers. LG and Samsung are sustainability oriented so we have some relationships there. GE is not typically leading the charge in energy efficiency. It feels like there may be a discussion at some point about ENERGY STAR levels and what makes sense.

9. Question: It would be great to figure out how to move people from barely being able to afford a new washer, to get them to be able to afford an efficient one. There is an opportunity to think about it with this analysis.

- Anne Brink: This has given us a good start with this information, and there is an opportunity to strategize. We are lucky to have other ESRPP partners around the country to start that conversation.
 - Follow-up response by Stephanie Quinn: This is something that has been on the docket to talk about for a while. If there is more information that we can provide, we would be happy to. Tomorrow we will be brainstorming topics to discuss in 2025, so there might be some follow up there.

Housekeeping:

Northwest Online Marketplace –

- Current Scanning project with emerging tech.
- **Goal:** to make Energy Efficiency product selection easy for our NW residence. Think of it like a clearing house.
- www.nw.enervee.com – Link is live now
- Next steps are to collect search/purchasing behavior data. Updates will come via packets. Follow ups with utilities as requested to discuss/demo/explore participation.
- **Please reach out to Alisyn Maggiora if you would like to participate or have questions.**

Q4 PCC Day 2 Meeting to Take Place Tomorrow



Q4 Products Coordinating Committee (PCC)

Day 2

December 4, 2024

9:15 a.m. – 12:00 p.m.

Virtual Meeting

Meeting Attendees

Committee Members: Carolyn Beebe [Snohomish PUD (SNOPUD)], Lars Henrickson [Seattle City Lights (SCL)], Lis Saunders (Tacoma Power), Tyler Boehringer (Emerald PUD), Trevor Frick (Clark County PUD), Jay Olsen [Pacific Power (PAC)], Christian Douglass (Northwest Power & Conservation Council (NWPC)), David Murphy [Bonneville Power Administration (BPA)], Todd Greenwell (Idaho Power), Haley Puntney (Inland Power), ShaToya Parker [Bonneville Power Administration (BPA)], Dustin Levesque [Puget Sound Energy (PSE)], Thad Roth (Energy Trust of Oregon), William Dixon [Puget Sound Energy (PSE)]

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Resources

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- Slide Deck: <https://neea.org/committee-documents/q4-2024-pcc-meeting-slides>
- Recording: [Q4 2024 PCC Meeting Day 2 on Vimeo](#)

Welcome and Packet Review

- I. Meeting Packet Highlights
- II. **Reminder:** Q1 Meeting will be in person (hybrid) at NEEA offices on March 18 & 19 of 2025. Holds for all meetings will go out mid-December.
- III. **Reminder:** This committee is now called the Residential Coordinating Committee (RCC). We are no longer PCC as of 2025.
- IV. **Icebreaker:** Favorite breakfast item.
- V. Agenda Reminders – Anouksha and Alisyn will facilitate each section along with the program managers. our goal is to discuss any lingering questions about the topic, desired outcomes of the topic will be focused on based on the spots available in the agenda and then engage in conversation over suggested additional topics. Some topics may not make the agenda, but we can put them aside as ad hoc topics for next year.

Based on rankings we have plotted 2 regional topic presentations for Advanced Heat Pumps and Heat Pump Water Heaters and 1 for RPP.

A reminder that Q1 will be a hybrid meeting at NEEA offices and will last 2 half days. The remaining meetings will be fully remote. Q2 is a full day meeting and Q4 will be 2 half days. We had voted earlier in the year to no longer continue with Q3 meetings for this committee.

Draft work plan with the with the topics after we decide today will be shared with the committee.

2025 Annual Planning

Goal for these topics = consider what the nature of engagement looks like (NEEA or utility share-out, group discussion, etc.)? How do you want to receive/engage/coordination on each topic?

Advanced Heat Pumps – Suzi Asmus

- Two Topics to be chosen for Regional Priority Topics for 2025 Meetings.
- There were three topics suggested by NEEA as well as a few additional topics that were added by committee members when they took the survey.
- Anouksha Gardner and Suzi Asmus led the discussion on Advanced Heat Pumps, focusing on connected commissioning, updates on national test procedures, and low load efficiency data collection. The committee considered the relevance and timing of these topics.
 - o **Connected Commissioning:** we explained the ongoing development of a connected commissioning specification led by Christopher Diamond, highlighting the importance of engaging with manufacturers and partners like the EPA.
 - o **National Test Procedures:** we discussed the updates on national test procedures, tax credit criteria, and Energy Star specifications, emphasizing the need for utility programs to leverage these changes.
 - o **Low Load Efficiency Data Collection:** we outlined the plan for collecting data on low load efficiency and launching a field study in 2025, with a focus on identifying data gaps and coordinating with utility partners.
 - o **Cold Climate Heat Pumps:** The committee discussed the importance of cold climate heat pumps and managing winter peaks, with Todd Greenwell and Lars Henrikson emphasizing the need for a broad approach and considering cost-effective solutions
- Teams Chat Discussion:
 - o Hot Water/Hot Air Forum - <https://www.aceee.org/2025-hot-water-hot-air-forums>; March 4-6
- **FINAL RECCOMENDATION: Advanced Heat Pumps TOPIC IN Q4.** State of the Union style overview of all topics suggested. Keep Topic one and two specifically as reports out and Topics 3 and 4 as full discussion pieces.
- **AD HOC TOPIC FOR Q2:** Request to consider/address cost (strategies to control cost and NEEA's perspective on how to tackle this), some utilities may be struggling with this to get the savings. Possible share out from Utilities with NEEA facilitating but not leading the conversation.

Consumer Products: Retail Products Portfolio (RPP) – Anne Brink/Stephanie Quinn

- One Topic to be chosen for Regional Priority Topics for 2025 Meetings.
- Stephanie Quinn and Anne Brink led the discussion on consumer products, focusing on RPP program updates, market data, and the adoption rates of heat pump dryers. The committee also considered the relevance of saddle type window heat pumps.
 - o **RPP Program Updates:** Anne proposed providing updates on televisions, heat pump dryers, and the overall RPP program, including market data and affordability considerations.
 - o **Affordability and Equity:** Thad Roth and Lars Henrikson emphasized the importance of incorporating affordability and equity into program evaluations and plans, suggesting a focus on helping all customers achieve cost-effective savings.
- Teams Chat Discussion:

- Thumbs up to Heat Pump Dryer info (2 upvotes)
 - Lars: I'd like to see affordability as an integral part of each and every program evaluation and plan. There might be some places where it's an easy fit and some where it's a challenge. That's OK. What's important is that we are looking at the potential for helping all customers achieve cost-effective savings.
 - Agree with Lars perspective (1 upvote)
- **FINAL RECCOMENDATION: RPP TOPIC IN Q2.** Cover adoption rates for heat pump dryers and affordability. We may need to come back to the committee in Q1 to make sure that this is where we still want to go.

Heat Pump Water Heaters – Emily Rosenbloom

- Two Topics to be chosen for Regional Priority Topics for 2025 Meetings.
- Emily Rosenbloom presented three main topics for heat pump water heaters: new products review, market progress evaluation report, and the hot water innovation prize. The committee prioritized the first two topics for further discussion.
 - **New Products Review:** we suggested reviewing new heat pump water heater products, including features and manufacturer presentations, to keep the committee informed about market developments.
 - **Market Progress Evaluation Report:** we proposed sharing the findings from the market progress evaluation report, which would include insights from the research team and applications for utility programs.
 - **Incentive Strategies:** The committee discussed the importance of understanding and sharing incentive strategies, with Todd Greenwell and David Murphy highlighting the need for transparency and coordination to address rising costs and market dynamics.
- Teams Chat Discussion:
 - Lars: Assuming IRA rebates really come through next year we'll be able to see if big rebates really change the picture. We might not know what that looks like until the end of 2025 or so.
- **FINAL RECCOMENDATION: HPWH TOPICS**
 - **2/3 are the HPWH Topics chosen**
 - **4 could be added as an Ad Hoc topic. Check in with committee members in 2025.**
 - **Keep [Hot Water Innovation Prize](#) as a regular update at each committee meeting.**

Recommendations for the Additional Topics/Suggestions from the Committee Survey for Ad Hoc Topics in 2025.

- 1 – 8 votes total
- 2 – 7 votes total
- 3 – 1 vote total
- 4 – 0 votes
- 5 – 3 votes total

REMINDER:

Q1 RCC Meeting to Take Place on March 18 & 19, 2025