



# Q4 Integrated Systems Coordinating Committee (ISCC)

## Day 1

November 6, 2024

12:30 – 4:00 p.m.

Hybrid Meeting– Virtual and in Seoul Room at SeaTac Conference Center

### Meeting Attendees

Committee Members: Kevin Smit [Northwest Power and Conservation Council (NWPCC)], Joe Hull [Eugene Water and Electric Board (EWEB)], Mattias Jarvegren (Clallum PUD), Andy Paul (Avista), Eric Mullendore [Bonneville Power Administration (BPA)], Shelley Martin (Idaho Power), Nancy Goddard [Pacific Power (PAC)], Oliver Kesting (Energy Trust of Oregon), Andrew Pultorak [Puget Sound Energy (PSE)], Walker Dodson [Seattle City Light (SCL)], Bill Hibbs (Clark PUD), Sinh Tran [Snohomish PUD (SNOPUD)], John Petosa [Snohomish PUD (SNOPUD)], Julie Banerjee (Tacoma Power), Drew Thompson (Chelan PUD)

NEEA Staff: Anouksha Gardner, Alisyn Maggiora, Alexa Hujik, Emily Rosenbloom, Stephanie Quinn, Alexis Muench, Dave Hammond, Warren Fish, Kaelin Kolodney

### Resources

- Agenda Packet: [Northwest Energy Efficiency Alliance \(NEEA\) | Q4 2024 ISCC Agenda...](#)
- Slide Deck: [Q4 ISCC 2024 Meeting Slides](#)
- Recording:
  - Video Recording Day 1: <https://vimeo.com/1028934992>
  - Video Recording Day 2: <https://vimeo.com/1028942928>

### Welcome and Packet Review

1. Meeting Packet Highlights
2. Collective Role – Working Together – Please come prepared to participate!
3. Agenda Overview – Regional Roundtable, Efficient Fans Program Updates, Housekeeping, Ad Hoc Discussion, 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 travel anywhere in the world, where would it be and why?

Additionally: Name, Organization, and Highlights since Q2 of 2024 (Programming and Org Updates)

Eric Mullendore – Bonneville Power Administration (BPA)

- Programs are pretty steady at the end of our 2 year rate period.

- Completed and posted our EE Action update with a 6 year time frame. After the first 2 year rate period (22-23) we did the actual update. Big story is we shifted our forecast down a little for that period, but we are still on target to meet the 300 savings we predicted at the start.
- Currently in development of an Online lighting calculator to replace our Excel based calculator
- Planning team has seen a bit of turnover recently. Bonnie Watson is now a manager in market research. Joanne Wang is our market research lead. David T joined as an Eval Lead and Nolan Kelly joined as a Resource Planning Team lead.

#### Nancy Goddard – Pacific Power

- Filing an update to our business plan on Nov 15 for 24-25. Update says that we still have enough to beat our 2-year target, the variances are very small, and we will be filing that plan on Nov 15.
- There is a new planer, Alex Osin, who is replacing Peter Schafer.

#### Joe Hull – Eugene Water and Electric Board (EWEB)

- Busy with residential through the summer. DFD Funding opportunity allowed us to do this, but we are now slowing down. We have been directed to do more low- and middle-income projects.
- Bill H is now a key rep for accounts, and there are three new members including Joe. Goal with this is now to increase our nonresidential side of things.
- Go Live date is in 1 month for the updated software system, so we are now bracing for that more than anything.

#### Kevin Smit – Northwest Power and Conservation Council (NWPCC)

- RTF annually does the regional conservation progress report, which was released in September for the two-year planning period.
- Currently collecting all the data in the region and comparing them to the target, which we're meeting. We achieved 160 aMW which is up from 148 aMW last year.
- We're also gearing up to start the 9<sup>th</sup> Power Plan which is starting in a few years. We're digging deep over the next six months to gather data.
- Joe Walderman, who is heading up our demand response work, will be at the advisory committee meeting tomorrow for the Resource Advisory Committee meeting which everyone is welcome to attend.

#### Shelley Martin – Idaho Power

- Struggling to meet our targets this year. Looking to see what we can bring in before end of year.
- Launched a small business lighting program a month ago and looking into potential midstream applications.
- Also, rolled out Existing Building Program for Retrofits a trade ally incentive. We don't have a trade ally network, but we did provide a kind of third-party trade ally and we will be extending that due to feedback we have received.
- Q from Alisyn M: In the midstream program that you're looking to launch is it lighting or other?
- A from Shelley: Its specifically non-lighting. Food service initially, several other utilities do HVAC and even a combo of commercial and residential, but I don't know that we're ready to go there yet. Our numbers are down as far as participation, so this would be in hopes to make a dent in the market with a midstream approach.

#### Mattias Jarvegren – Clallum County PUD

- Started a low-income ductless heat pump program with money from WA Dept of Commerce over the last 6 months. This is in an effort to reach out low income customers. Hoping for around 100 ductless heat pumps installed within our service territory at the end of this.

- I've been engaging with our strategic energy management effort, which has also been exciting. We have done lighting projects, LED conversion, with them in the past, but they are an exciting team to work with and I am looking forward to doing more in the future.

#### Oliver Kesting – Energy Trust of Oregon

- For 2024 Goals, in the Commercial Sector with lighting and SEM, and really all of Energy Trust is doing great overall.
- Changed to a 5-year planning cycle which is a shift.
- We completed the new buildings re-bid and have selected the PMC. They're the incumbent and will do the new buildings work moving forward which will help us to focus on whole building and market transformation.
- Existing buildings were supposed to go to bid this year, but we are delaying till 2025 to focus more on restructuring to better fit small business, multifamily, and midstream.
- Alisyn: Why are you going to a 5-year plan?
- Oliver: You would have to speak with some other folks in the organization for more detail. But from what I understand, the annual planning cycle takes up a lot of resources every year which limits our flexibility. So the idea was to change to a 5 year cycle so we can really focus on delivering the goals rather than continuously updating our plans. This also gives us more flexibility into moving funding between years.

#### Andy Paul – Avista Utilities

- Removing HVAC BFDs. We have two midstream offerings that will not change and I don't think we're going to add another one.
- We currently have one large pilot in compressed air leak detection and repair program which has so far proven to be cost effective.
- A lot of personnel changes through turnovers, program managers, retirements etc. so a lot of us are currently wearing a lot of hats.
- Eric: Regarding the compressed air leak detection pilot; Are you seeing a fairly short measure life, or are you doing something unique to try to maintain the persistence of the repairs?
- Andy: The measure life itself, some people say its only 1 year, but I would argue that a repair itself would last a little longer. We have found a little bit that when you go in to fix one leak, another one appears, but overall, it's been pretty good. We did a major one on a black iron pipe underground, which didn't fall into this program, and it's turned out to be a big deal. Contracting the pilot with one firm currently and so far, it's looking pretty promising.
- Shelley: Did you say you were removing HVAC and VFD from the commercial program? And what is the reason?
- Andy: No, were just taking the VFDs off the prescriptive HVAC. We will still do everything site specific. I believe the cost per horsepower led to us taking them off the prescriptive.

#### Bill Hibbs – Clark PUD

- Currently standing up 4 programs – Midstream (working with 3 distributors through Q4), a formal Retro commissioning program which is designed to be a part of the SEM program at Clark, the EDA program, and new construction, which is a tough area for us to get into so we're hoping this will help with those barriers.
- Q: I would be curious to hear about your midstream program, but what specifically in midstream is it lighting? HVAC? What measures are they that you're pushing?

- A: It is for lighting and its currently all the BPA products that are offered up in the implementation manual, but we are hoping to expand to fixtures. Maybe thermostats and EV chargers as well. We will reassess once we get our feet underneath us.
- Q: You also mentioned EDA, I am not familiar with that acronym.
- A: Yes, Early Design Assistance (EDA). So that program works with customers kind of in the design phase to implement deeper energy efficiency into their designs. And if implemented, then they get an incentive after the project is built out. This is for any commercial building and maybe multifamily in the future. We're talking with Stillwater on this too. The EPM measure they do want to see 200k kWh delivered by the EPM as a minimum. SO were looking at all kinds of builds for this (school districts, etc.) to gather data and report back on the projects.
- Eric: Yeah, that is correct. We have made some large streamlining steps on the industrial side. It used to be a million kWh a year to sign up for savings and we did prepayments, so it was administratively cumbersome. We streamlined it down and offered it on the commercial side for 200,000 kWh which is an arbitrary threshold to help improve EE in the building and get us some projects we wouldn't otherwise be a part of.

#### Andrew Pultorak – Puget Sound Energy (PSE)

- Our targets across the board for Gas and Electric are doing okay.
- We do have the 2-year planning happening right now since we are halfway through the cycle.
- No big changes in programs because we are in the middle of our 2 year plan (23-25), there are a few bonuses in lighting for smaller programs, but nothing drastic happening.
- I'm hoping when we get into planning for 2026, which will be later this summer, we can start thinking of ways to encourage people more, not to use the LEDs and to go full fixture or retro fits and keep pushing controls.

#### Sinh Tran – Snohomish PUD (SNOPUD)

- We are going to end the midstream HVAC program this year even though we are contracted through 2026.

#### Julie Banerjee – Tacoma Power

- We are on track to meet our end of year goals, but we are also in the middle of a 2-year program, so we will be discussing what pragmatic changes we might need to make moving into 2025. At a high level, that includes lighting in which no changes are expected.
- Hoping to continue offering the same thing downstream but guess that will change in 2026. We don't do any mainstream engagement in lighting now which might need to change because of the changes coming in 2029.
- Taking a new contract to do the EDA new construction for commercial and multifamily if we remove all ag. So ag will continue to be processed as lighting and have about 10 projects annually from that program.
- We're also going to a kind of 5-year implementation plan as well which is really exciting as a modernization strategy.

#### Drew Thompson - Chelan PUD

- Our target numbers are looking good which has given us time to go and refine some of the other programs that we have which has been eye opening, specifically the heat pumps.
- On the commercial/industrial side I have been focusing on SEM and going account by account.

## Regional Priority Topic – Efficient Fans Program Updates

Presented by Warren Fish; wfish@neea.org

Notes: Kaelin Kolodney

Alexis Muench, new Program Manager of Efficient Fans, provided an overview of the Program, highlighting its new inclusion in the committee, and providing context about the type of work the team is doing in the Program Development stage.

Nick Michel, Market Transformation Manager, explained the types of fans included in the program, including AMCA certified fans with a fan energy index (FEI) greater than one and fans with a horsepower greater than or equal to one. He also described common applications of these fans in commercial and industrial settings, such as building exhaust, garage ventilation, process exhaust, and dust collection. The discussion included the challenges in market transformation, such as low awareness of FEI as a metric and the difficulty in identifying efficient fans through fan selection software. The importance of partnering with leading manufacturers to optimize fan selection software and develop a value proposition for efficient fans was emphasized.

Tamara Anderson, former Program Manager of Efficient Fans, highlighted the publication of the market characterization report this year, which estimated 27,000 annual unit sales of fans and identified a low awareness of the FEI metric among different market actors. The report also pointed out the opportunities to increase FEI awareness and the need for manufacturer selection software to highlight FEI. The program strategy includes working with manufacturers and manufacturer reps to increase FEI awareness, promote non-energy benefits of efficient fan systems, and leverage influence at the point of sale. Recent progress includes engaging with national manufacturers to optimize fan selection software and providing trainings to increase FEI awareness in the market.

1. **Question:** When you're mentioning new construction is most common, why wouldn't it just be looked at as a holistic building and looking at EUI (Energy Use Intensity)?
  - **Answer by Nick Michel:** If it makes more sense to look at it holistically, sure, you could do that. But for those opportunities that come up that are new construction/new installation, it definitely would apply
2. **Question:** How can you do market transformation? What kind of market technology are you going to tell us later on how much you plan to capture in that market transformation?
  - **Answer by Nick Michel:** We're looking at the entire market, not specific applications or specific sectors necessarily. We want to partner with leading manufacturers to get that fan selection software optimized and to highlight FEI as a metric. Success looks like increasing the fan efficiency by 2041 by 25% over baseline.
3. **Question:** It seems odd that there's a higher awareness with specifiers than manufacturers. Wouldn't manufacturers be more aware of what a rating is when they're manufacturing equipment, rather than a specifier?
  - **Answer by Tamara Anderson:** This was based on the interviews conducted within the study. We could have been talking to different people within the manufacturer ecosystem.

4. **Question:** Is there going to be a label for Fan Energy Index (FEI)?
  - **Answer by Tamara Anderson:** There isn't currently a label for Fan Energy Index. It's a design point metric, so when someone's going in and specifying a fan, it's at a particular design point and depends on static pressure and flow. A specific fan could have a number of different FEIs, depending on how it's operating.
5. **Question:** What is AMCA? What size membership do they have?
  - **Answer by Tamara Anderson:** The Air Movement and Controls Association is global.
6. **Question:** What does regional mean in the context of the 27,000 annual unit sales?
  - **Answer by Tamara Anderson:** This study was based on the Northwest region, which includes Washington, Oregon, Idaho, and Montana.
7. **Question:** What kind of a price difference is there for higher FEI fans?
  - **Answer by Nick Michel:** The cost could be minimal or very large depending on various factors like pressure changes, CFM changes, and blade type changes. We might see some trends developing as we gather more data.

### Ad Hoc Topic:

- Managing Fluorescent Baseline and related LLLC incentives: Does your organization have plans for what's to come? Challenges/Opportunities.
  - Discussion to continue in 2025

### Housekeeping:

## Q4 ISCC Day 2 Meeting to Take Place Tomorrow



# Q4 Integrated Systems Coordinating Committee (ISCC)

## Day 2

November 7, 2024

9:00 a.m. – 12:00 p.m.

Hybrid Meeting– Virtual and in Seoul Room at SeaTac Conference Center

### Meeting Attendees

Committee Members: Kevin Smit [Northwest Power and Conservation Council (NWPCC)], Joe Hull [Eugene Water and Electric Board (EWEB)], Mattias Jarvegren (Clallum PUD), Andy Paul (Avista), Eric Mullendore [Bonneville Power Administration (BPA)], Shelley Martin (Idaho Power), Nancy Goddard [Pacific Power (PAC)], Oliver Kesting (Energy Trust of Oregon), Andrew Pultorak [Puget Sound Energy (PSE)], Walker Dodson [Seattle City Light (SCL)], Bill Hibbs (Clark PUD), Sinh Tran [Snohomish PUD (SNOPUD)], John Petosa [Snohomish PUD (SNOPUD)], Julie Banerjee (Tacoma Power), Drew Thompson (Chelan PUD)

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### Welcome and Packet Review

- I. Meeting Packet Highlights
- II. **Reminder:** Q1 Meeting is Feb 26-27, 2025. Holds for all meetings will go out Mid December.
- III. **Reminder:** This committee is now called the Commercial/Industrial Coordinating Committee (CICC). We are no longer ISCC as of 2025.
- IV. Packet Review Reminder – Tier 1: Agenda Items, Tier 2: Program Activity Reports, Tier 3: Additional Resources and Reference Material

### 2025 Annual Planning

- LLLC
- Teams Meetings Chat for LLLC:
  - Walker: Could you briefly define "champion" in the notes? From the perspective of the financial decision-maker
  - Walker: To build out my comment, it was also about market maturity and regions with long-standing lighting programs vs those with relatively new programs
  - Anouksha: Ill add this in Walker.

- Walker: <https://inside.lighting/news/24-03/washington-set-become-8th-state-enact-fluorescent-ban>
- Eric M: <https://olis.oregonlegislature.gov/liz/2023R1/Downloads/MeasureDocument/HB2531/Introduced>
- Alisyn: Please provide your preferred top 2 from topics 1, 2 and 3 in the Mural:
  - 1 – 2 votes (Walker: #1 should not be ignored, but perhaps add distributors in your definition of champion. Distributors can impact decision-making at the point of purchase so may be the "best" champions.)
  - 2 – 7 Votes with 2 as the #2 choice between the two
  - 3 – 7 Votes with 3 as the #1 choice between the two
- HVAC Notes:
  - High Performance HVAC Topics: Dave Hammond and the ISCC committee discussed two main topics for high performance HVAC: 1. NEEA's Market Engagement Plan and 2. Code Activities. The presentation also considered additional topics related to regional potential and refrigerant changes. The committee decided to focus on the market engagement plan in Q1 and code activities in Q4.
    - Market Engagement Plan: The first main topic Dave discussed was the market engagement plan, which includes informing on key activities within the market, critical awareness, and education opportunities. The plan aims to identify the appropriate audiences for outreach.
    - Code Activities: For the second main topic, Dave reviewed code activities, including preparing for proposed code changes for the IECC and establishing a new testing procedure for VHE DOAS systems. Updates on these activities are expected by Q1 of next year.
    - Additional Topics: The committee considered additional topics related to regional potential, including savings and applications, and the impact of refrigerant changes on high performance HVAC systems.
    - Q1 and Q4 Focus: Dave and the committee decided that a focus on the market engagement plan in Q1 and code activities in Q4 would be the best path forward. This decision was based on the relevance and timing of the topics.
  - Action Items: High Performance HVAC -
    - Dave will prepare a memo on regional potential savings and applications for high performance HVAC and will share it with the ISCC committee.
- Teams Meeting Chat for HVAC:
  - N/A
- XMP
- Teams Meeting Chat for XMP:
  - Julie B: It'd be helpful to hear from folks who are implementing irrigated agriculture and pump measures
  - Julie B: #2 sounds like a good Q1 topic, there's a lot of awareness building still needed, even in utilities.
  - Warren: Custom projects, Hydraulic Institute & ER, Smart Pumps, and Ag Irrigation
    - 1,3,4,2
    - 1,2,3,4
    - 1,4,3,2
    - 1,3,2,4
    - 1,3,2,4
    - 2,3,4,1



- For Topic 1: Julie B cannot volunteer yet. Eric Mullendore said: We've got projects ready to discuss. Will want to bring SME to support.
- Efficient Fans
- Teams Meeting Chat for Fans:
  - Stephanie Q: Reminder from yesterday: AMCA = Air Movement & Control Association (fan trade/industry org)
  - Rank the Topic Choices: 1. Coalition 2, Research 3. Message Testing
    - 2,1,3,
    - 2,3,1
    - 2,3,1
    - 2,3,1
  - Has anyone used UV Technology on coils in Air Purifiers? Is anyone looking at this on capturing savings?
  - Eric M: I don't believe BPA has any projects of that variety.
- Additional Topic/Question Suggestions from Committee
  - n/a

### **REMINDER:**

**Q1 CICC Meeting to Take Place on February 26-27, 2025**