



# Q2 ISCC Meeting

May 22 – May 23, 2024

Day 1: 12:30 – 4:00 PM; Day 2: 9:30 AM – 12:00 PM

Virtual Meeting

## Day 1: May 22, 2024

### Meeting Attendees

#### Committee Members:

Andy Paul (Avista), Sinh Tran [Snohomish PUD (SNOPUD)], Bill Crabtree [Bonneville Power Administration (BPA)], Andrew Pultorak [Puget Sound Energy (PSE)], Julie Banerjee (Tacoma Power), John Petosa [Snohomish PUD (SNOPUD)], Eric Mullendore [Bonneville Power Administration (BPA)], Nancy Goddard [Pacific Power (PAC)], Walker Dodson [Seattle City Light (SCL)], Bill Hibbs (Clark PUD), Sheree Willhite (Idaho Power), Bill Hough [Eugene Water and Electric Board (EWEB)], Oliver Kesting (Energy Trust)

#### NEEA Staff:

Alexa Hujik, Anouksha Garnder, Alisyn Maggiora, Warren Fish, Stephanie Quinn, Drea Bell, Anne Curran, Maria Murphy, Kaelin Oppedal

### Resources

- Agenda Packet: [Northwest Energy Efficiency Alliance \(NEEA\) | Q2 2024 ISCC Agenda...](#)
- Slide Deck: [Northwest Energy Efficiency Alliance \(NEEA\) | Q2 2024 ISCC Meeting...](#)
- Recording: [Q2 2024 ISCC Meeting Day 1 on Vimeo](#)

### Welcome, Introductions, Agenda and Packet Review

1. Meeting Packet Highlights

### Regional Priority Topic – Extended Motor Products – Pumps 101

Desired Outcome: Committee members understand the basics on pumps, including pump applications and why energy efficiency is a big opportunity for NEEA's regional program efforts in transforming this market.

Presented by Warren Fish, NEEA – [wfish@neea.org](mailto:wfish@neea.org)

Notes: Kaelin Oppedal

Warren Fish, Program Manager of NEEA's Extended Motor Products (XMP) Program, led the committee through a crash course on pumps and circulators, highlighting the vital parts they play behind-the-scenes in things like moving water for air conditioning and pressure boosting in buildings, keeping things cool in industrial plants, and drawing water from wells for irrigation in agriculture. The electricity required to run these pumps is the largest contributor to the lifecycle cost of the product, but there are multiple pathways to efficiency to reduce those costs: hydraulic efficiency, motor efficiency, and the use of a variable frequency drive (VFD). All pumps need to operate at less than their full load condition most of the time but need to be designed to meet the full load when necessary. To adjust to meet load, changing the motor speed using a VFD is a more energy efficient strategy than

throttling with valves. A VFD can be used in addition to a pump, motor, and control system, or it can be integrated into a Smart Pump, which encapsulates all those products in one package, allowing for automatic optimization, integrated controls, self-sensing, balancing and measuring capabilities, as well as easier and cheaper installation and maintenance. While all that sounds great, lack of awareness, acceptance, differentiation, and preference for like-for-like replacements and lowest first cost present barriers to adoption. On the flip side, there are multiple opportunities like the Federal Standard for Commercial and Industrial pumps (effective 1/17/20), and the first ever Circulator Standard that was announced by DOE just this week, which will go into effect in 2028. There are also Energy Rating (ER) Labels for both pumps and circulators, new technologies, and non-energy benefits like noise reduction that can be leveraged. NEEA's XMP program takes a midstream/upstream approach, working with manufacturers reps, specifiers, pump decision-makers and the demand side to increase awareness, availability, and sales of efficient clean water pumps and circulators up to 50 HP through avenues including incentives, sales bonuses, and training and education support, collecting useful market data in the process.

Links: <https://betterbricks.com/case-studies/class-a-office-building-finds-grade-a-booster-pump-solution>  
<https://betterbricks.com/case-studies/smart-circulators-provide-convenience-and-savings-for-bellwether-housing>

### **Teams Chat/Discussion:**

Eric Mullendore - BPA created a 'calculator' that basically recreates the RTF pump measures to make them more program friendly if anyone is interested.

Bill Hough - My question is around suppliers or distributors in our region and market availability/adoption. Is there a region where we see higher implementation and greater customer/contractor acceptability in design? Who are the distributors?

A: We are working with distribution chain of all the big brands of pumps across the region and we are seeing adoption that correlates with population centers. There isn't one region that stands out more than others. Certain engineering firms are leaders, and NEEA is finding ways to amplify those champions and success stories so they may influence others to do similarly.

Julie Banerjee - Energy reduction is important, but water reduction is too, relative to cost. Is that listed as a non-energy benefit or selling point for the technology?

A: Yes. Water reduction especially in dry parts of the country is a selling point for pump companies. Not a huge focus for us as NEEA, because we are an energy efficiency organization.

Eric Mullendore: On the topic of marketing smart pumps for industrial applications – we are getting the impression that there would be significant pushback from users who have/use VFDs. Is there an opportunity for end user focused education around advantages of smart pumps? Case studies or talking points we can reference to reduce pushback?

A: This is a huge opportunity area. One of the leading brands has recently created a new line of smart pumps that goes beyond original HP range on ECM smart pumps for industrial applications. We are in the very early innings and there are a lot of unique barriers. We need to meet the audience where they are, and I think awareness and using that to build marketing and case studies is something we're excited about.

## Regional Roundtable

Desired Outcome: Committee members and NEEA Staff are updated on each other's activities and better understand what's happening across the region.

### Oliver Kesting – **Energy Trust**

- Coordinating meetings and strategizing with utilities and planning for 2025 and beyond.
- Looking to accelerate but as of 2024 there are some budget constraints, so we are limited as to how far we can build the pipeline for this year.
- RFP for New Buildings (every 5 years) – in process of selecting the contract for 2025
- Planning for Existing Buildings RFP which goes out in early 2025 for a 2026-2031 Contract – including multifamily, lighting, strategic energy management, etc.
- A lot of hiring happening at Energy Trust through leveraging the Inflation Act Funding and new projects.
  - o Julie B – Are there major scope changes to the New Buildings program or are you doing something similar to what exists?
  - o Oliver – There were some changes that we asked for. With the OPC's change in policy, we can use the utility cost test for these properties, which makes it easier for people to participate. This makes implementation easier and that will be the strategy, so we are focusing on education and training so that customers have the best information to make informed decisions.

### Bill Hough – **EWEB**

- Investigatory work into self-funded measures that are not necessarily sponsored through BPA.
- Ramping up participation and finding ways to engage with the customer and the contractors. Letting people know that we exist and what we have available on the incentive front as well as custom tracks.
- Trying to do focus market outreach to industrial customers specifically through bill inserts so that we can get as much information into their hands as possible.

### Stephanie Quinn – **NEEA, Efficient Fans**

- **Updating for Tamara Anderson who is running the Fans Program at NEEA. Reach directly out to her with any additional questions at [tanderson@neea.org](mailto:tanderson@neea.org)**
- NEEA submitted comments to [Appliance Standards Rulemakings and Notices \(energy.gov\)](https://www.energy.gov/appliance-standards-rulemakings-and-notice) for Fans and Blowers. NEEA comments are here: [Regulations.gov](https://www.regulations.gov)
- [Fan Systems Market Characterization Report is up on neea.org.](https://www.neea.org/fan-systems-market-characterization-report)
- Fans is now in the program development phase at NEEA. We originally focused on manufacturers, and we are now shifting to both manufacturers and their representatives. We are actively recruiting for this program.
- We're promoting the program via at [BetterBricks | Efficient Fans](https://www.betterbricks.com/efficient-fans)
- Thank you again to Andy P and Eric M for joining the Efficient Fans roundtable at EFX24!

### Julie Banerjee – **Tacoma Power**

- 54 projects either contracted or paid this year. They make up about 1/3 of our kWh goal for this year.
- Indoor grown cannabis projects have been a really large fraction of our projects. About 13% of contracted projects this year and they make up almost 50% of savings.
- Looking at a little bit more streamlined of an approach in our new buildings and new construction.
- Energy design assistance or early adoption approach versus a measure-by-measure approach.
- Brittany Broyles is the Director for the Customer Energy Solutions team and Niten Manchanda for Clean Buildings, implementation, programming as well as CSM programming.

## Maria Murphy – NEEA

- Working on incentive strategy with manufacturers reps; the other part of this strategy is called “program support” which is joint promotional efforts or supporting promotional efforts that the manufacturing reps are putting up themselves to help drive awareness and sales of their equipment.
- The day-long training sessions on the future of commercial HVAC that I mentioned are as follows:  
Spokane – (7.09) | Seattle – (7.10) | Portland – (7.11)

**Action:** Please reach out to Maria Murphy at [mmurphy@neea.org](mailto:mmurphy@neea.org) if you would like to be invited to one of these training events.

## Sihn Tran and John Petosa – Snohomish PUD

- Two new engineers on board
- Lighting is close to 100%. It’s really strong. Facing challenges with data because we are migrating to an online platform and stopped posting things in SAP.
- Big uptick in controls this year. Incentives for controls is usually more than fixtures themselves.
- The energy platform we’re moving to will be nice because contractors will have their own login and be able to track their projects.
- Just rolled out the New Construction Design and New Construction for Residential.
- Working on the HERE Funding and IRA Funding

## Anne Curran – NEEA, LLC

- Industry voices profiles coming out soon
- Decision maker focused guide available – link in packet – ***So you’re ready to explore LLC? What’s Next?***
- Program continues to do a lot of collaboration of manufacturer sales channel throughout region.

## Andrew Pultorak – PSE

- Michael Lane has fully retired as of April! Looking to backfill Andrew’s old position soon.
- Looking to offer a new incentive for steam traps and hoping to collect energy savings on those.
- Our LLC Bonus’ are going strong. Started in January offering \$100 for daylight zones and \$50 for non-daylight zones. We are continuing to lose savings due to LED saturation in the marketplace.
- Like OR, WA state passed House Bill 1185 for the use of mercury in lamps, which prohibits fluorescent lighting, and should be enacted in 2029.
- Incentives for advanced exterior lighting controls. \$75 per fixture

Q. Would love to know what other folks are doing regarding the banning of fluorescent and how that’s going to affect your programs.

- Tacoma Power: Is it going to change the basis of savings.
- EWEB: We are concerned about the change. Actively working to do market outreach and promote as best possible for the market transition while we still have things available.
- Tacoma Power: Do you know how it will affect your baselines?
- EWEB: I can only assume it’s going to be LED baseline since it’s going to be market standard.
- PSE: I am in semi panic, and I am 4 years away. Oregon is only 8 months.
- BPA: Right now, communicating with End users and trying to get them to take care of it right now with all available incentives. We are looking to hold onto the baselines until around September 2025. Just starting to have conversations with people in Oregon about what this is going to look like come January. I am also looking into a non-tech baseline such as lighting power density or some other opportunity, so we don’t fully abandon the non-residential lighting market.
- PSE: We have been looking into saying maybe the baseline is “what is your energy savings”. With early market adoption of LEDs its been 12-13 years. So we are starting to see people replacing LED with LED, so

not a huge savings, but hoping that by pushing controls we can get more savings. We are looking to all Oregon Utilities to see how they do this over the next few years so we can adopt the best practices.

- BPA: It's not just lumens per watt, a lot of times there are significant LPD improvements available by changing lighting in any space. It's not going to be as much with regards to savings for project cost.
- TP: Jim Fay from ComEd did a great presentation with these bans in mind. They are going to do a current market saturation study in their service territory to see where they should focus since, they don't currently have bans in place. *Julie Banerjee from Tacoma Power can send a copy of the ComEd Market Study presentation by Jim Fay to the ISCC Team.*

#### Eric M and Bill C. – **BPA**

- In the middle of a rate period, so not much has changed since February in programs.
- Development of an online lighting calculator so we can move to a more stable platform. Hoping to roll out initial round in Q4 of 2024 or Q1 of 2025. Platform would be able to expand to other programs as it expands.
- Seeing our first projects come through for Pumps, especially in the industrial sector with the custom work in small and medium bases. Excited to see those UBS measures contribute to savings.
- Bonnie Watson is officially the Planning and Evaluation Manager.

#### Sheree Willhite – **Idaho Power**

- New intern for the summer has started.
- Multifamily program rolled out with 5 dwelling units or more per building to cover a gap that previously existed.
- Large project in Boise area that are taking up a lot of the contractors, so labor is moving upward but interest rates are high.
- Idaho Code Board is finally looking at the 2021 IECC
- State level is the highest energy code that can be adopted in Idaho, so counties cannot be higher than state.

#### Andy Paul – **Avista**

- 2 new interns for summer have started.
- We are concerned with the lighting for the impact regarding opportunities for our customers going away.
- Cannabis projects are huge right now as well. Efficacies are getting much better, but there are still opportunities for some savings for regular commercial greenhouses.
- Continue to push controls.

#### Warren Fish – **NEEA, Pumps**

- News circulator standard is the biggest thing in pumps. Just came out this week!
- Hydraulic Institute is coming to Portland June 25-27. Information here: [2024 Technical Meeting - Pumps.org](#)
- May 31<sup>st</sup>, Warren will be talking to the IFMA Seattle Chapter. Information here: [May Lunch & Learn | Proven Technologies and Approaches for Healthy, Efficient Buildings \(jotform.com\)](#)

## Coordinating Committee Assessment

Desired Outcome: Get committee feedback regarding the recommendations and findings presented in the assessment memo.

Alisyn Maggiora presented the proposal for continued streamlining opportunities for the coordinating committees, based on input received through one-on-one conversations and the 2024 stakeholder satisfaction

survey. The gist of the improvements proposed seek to the lighten the load and increase flexibility with topics, including the following:

- Rename committees so they align with sector-based structure going forward
- Reduce to 3 meetings/year (summer break)
- Incorporate conference-style break-out option on some topics
- Create more balance between coordination and convening needs - Focus regional coordination where it's needed; create more space for convening on ad-hoc topics & industry or utility needs

Concluding the presentation, ISCC members completed a poll to provide initial feedback on the proposal; all voting members present were in favor of adopting the proposed changes. The next step is to share the proposal with the Products Coordinating Committee (PCC), collect final input via 1:1s, and then take a formalized proposal to the Regional Portfolio Advisory Committee (RPAC) on August 22.

## Recap, Next Steps, Adjourn

### Events and action items discussed at this meeting:

- Hydraulic Institute is coming to Portland June 25-27. Information here: [2024 Technical Meeting - Pumps.org](#)
- May 31<sup>st</sup>, Warren will be talking to the IFMA Seattle Chapter. Information here: [May Lunch & Learn | Proven Technologies and Approaches for Healthy, Efficient Buildings \(jotform.com\)](#)
- The day-long training sessions on the future of commercial HVAC that I mentioned are as follows:  
Spokane – (7.09) | Seattle – (7.10) | Portland – (7.11)
  - o **Action Item:** ALL ISCC MEMBERS - Please reach out to Maria Murphy at [mmurphy@neea.org](mailto:mmurphy@neea.org) if you would like to be invited to one of the day-long training events for HVAC.
- **Action Item:** Anouksha to add Poll questions to this section of notes so Warren can receive feedback on this section.
- **Action Item:** Julie B from Tacoma Power to get a copy of the ComEd Market Study presentation by Jim Fay to send out to the ISCC Team.

## Day 2: May 23, 2024

### Meeting Attendees

#### Committee Members:

Bill Crabtree (BPA), John Petosa (Snohomish PUD), Lindsey Ellis (BPA), Dodson Walker (Seattle City Light), Julie Banerjee (Tacoma Power), Sinh Tran (Snohomish PUD), Andrew Pultorak (PSE), Nancy Goddard (Pacific Power), Mattias Jarvegren (Callum PUD), Andy Paul (Avista), Oliver Kesting (Energy Trust), Eric Mullendore (BPA), Shelley Martin (Idaho Power)

#### NEEA Staff:

Alexa Hujik, Anouksha Gardner, Anne Curran, Stephanie Quinn, Jesse Largent, Tamara Anderson

## Resources

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## Welcome and Introductions

### Regional Priority Topic – Luminaire Level Lighting Control – Takeaways from LLLC Projects

Desired Outcome: Utility driven presentation where data is shared and the committee can glean insights on LLLC, discuss implications for lighting programs, and regional coordination opportunities.

Introduction from Anne Curran with NEEA. Facilitated by Julie Banerjee from Tacoma Power and participation from Andrew Pultorak from PGE and Eric Mullendore from BPA.

- Focus on take aways from LLLC Projects
  - Synthesis, learnings and reflections
  - What might we want to do differently as a region or as individual organizations
- Tacoma Power – Julie Banerjee
  - Methodology
    - Caveat on extracting data from BPA lighting calculator
      - Because LLLC is not a category in calculator, looked at network controls or fixed controls
      - Models being installed may be a stronger way to identify LLLC
    - Control types have evolved over time which can bring in some noise and inconsistency across years
  - Volume
    - Majority of projects have low uptake of LLLC
    - Raises annually but low average - 8%
    - 2012 data - longer timeline then the LLLC initiative
    - Spike from large project in 2017
    - LED are dominant technology with LLLC
  - Building types
    - Most activity in warehouses (excluding large project in 2017)
      - Using geospatial analysis, most activity along waterfront
    - Also activity in parking garages
  - Savings
    - LLLC projects have similar per project savings savings to non LLLC networked lighting
    - Non-LLLC projects have higher total savings each year, but they trend together
  - Questions
    - Anne- thoughts on why warehouse adoption is pretty strong?
      - Julie thinks its related to the level of sophistication of warehouse clients plus larger customers have more touchpoints by utility staff
      - Walker - nature of the space and lighting needed (higher wattage), they like higher level of control
      - Andrew -
        - Surprised BPA doesn't distinguish between LLLC and NLC
        - Also surprised about amount of warehouse projects
          - Learning about LLLCs was originally all about office spaces and capturing day light
            - Grouping working spaces

- All major manufacturers were touting it about office spaces and savings
    - Julie - BPA mix of urban and non-urban versus Tacoma
      - Interesting note that about 50% of new construction is warehouses
    - Interesting note that about 50% of new construction is warehouses
  - Anne - are any warehouses leveraging asset tracking?
    - No projects that people are directly aware of
      - May not be in any of the documentation for projects since it's not energy savings related
    - Mentioned in some case studies
- Puget Sound Energy – Andrew Pultorak
  - 2014-2015 LLLC learning
    - Install at a PSE building in Bothel
    - Upgraded fixtures to LLLC on part of 1st floor
    - Were looking to learn about the product before offering incentives
    - 119 Fixtures total - Cree & Phillips
  - Incentive History
    - 2016 – PSE Looked at what kind of incentives they could offer
      - PSE provides clear definition for customers
    - 2017 offered additional incentive
      - 3 cents per KWH in addition to 17 cents if they installed LLLC fixture
        - Only offered in open office, private office, classrooms (Daylight spaces)
    - 2018 offered a bonus of \$50
      - Plus 15 cents per kwh
      - Heard people didn't want to install because of additional cost
      - Expanded to warehouses
    - 2019 Incentive upped to \$75
      - Plus 15 cents per kwh
      - Want to cover programing costs
        - Experience was programing was cumbersome - most were remote control style back then
    - 2020 continued on bonus and marketing during COVID
      - Upped base to 18 cents per kwh for LLLC
      - \$75 bonus was still present
    - 2021 raised base incentive
      - 25 cents + additional 10 cents for LLLC
      - \$75 bonus for LLLC still in place
      - Increase incentives created more traction with projects
    - 2023 shifted bonus to \$75 bonus for daylight spaces, \$50 in non-daylight spaces
      - 25 cents + additional 20 cents for LLLC
      - Offered non daylight spaces for buildings that had a mix of daylight and non-daylight spaces (teachers work room, lunch room)
    - 2024 Increased bonus from \$75 to \$100 for daylit spaces and \$50 in non-daylit spaces
      - 30 cents per kwh plus 20 cents per kwh LLLC
  - LLLC volume increasing over time
    - Both # of projects and fixtures has increased year over year
      - Big jump in 2020 due to 6 projects that were significant
    - Related to increase in incentives
    - 68 projects in 2023 with 7800 fixtures; 42 projects currently 2024
    - About 25% of projects now have LLLC
  - LLLC facility types
    - Warehouse projects most prevalent, then office, industrial and schools
    - A good amount of offices



- Good traction in schools - while 6% by project, 19% by fixtures
- Saturation of LEDs means needing to go out and market more. Still expected to bring in lots of savings
- Questions
  - Julie - Are the bonuses mentioned in addition to the base level?
    - Yes. Any type of control offers the 50 cents, if its LLLC then you get the 100 or 50 dollar bonus
  - Julie - How to you leverage account executives and marketing in spaces that are not always open to new tech?
    - Once you get one school into it the rest jump on board
    - Account executives go in and focus on all technologies
  - Julie - Is basis of savings internally calculated?
    - Yes
  - John - Comment: We increased our Project Development Incentive (PDI) for NXT Level certified contractors and double the PDI for LLLC installs.
    - Looking to future, focused on demand response and time of use rates and what LLLC can provide
  - Anne - Do you have a sense of if the projects for LLLC are on the larger side or are there a mix of smaller, medium large?
    - All across the board
    - When initially starting they were smaller
  - Eric – interested in trade alley engagement and how often working with electricians versus designers. Do you focus on one or the other?
    - Talking across the spectrum
    - Try to get to the decision maker and that is a variety of people
- Bonneville Power Administration – Eric Mullendore
  - Context points
    - NLC Specific measures offered since 2019
      - Before that had multilevel control measure used in projects
    - Measure baked into a LED measure - Prescriptive incentive for fixture upgrade
      - Different version of that measure if you include NLC
    - Currently don't have a standalone controls measure
      - This is a gap that should be fixed in the future
  - Incentives
    - Recently increased bonus for NLC
    - \$50-\$120 per fixture on top of fixture incentive
    - Ranges bases on fixture type and wattage being controlled
  - Do not currently differentiate between NLC and LLLC
    - Likely to come in next rate period but no current decision
    - RTF savings pointing in that direction
  - Numbers presented are for option 1 utilities
    - All utilities w/ exception of Tacoma, Seattle City Light and Snohomish
  - Project trend
    - Projects w/ at least one NLC measure included
      - 2019 - 12 Projects first year - fairly large projects
      - 2020 was peak with a large campus project
        - Multiple buildings on a campus count as multiple projects
      - 2022 -23 saw a drop in savings but in line with drop in savings from lighting portfolio as a whole
        - 20 buildings in 2023
      - Over period saw 26 utilities participate - report at least one project
        - Over 50% of projects is ClarkPUD
    - Savings from whole projects and savings from controls graph (slide 108)

- Shows controls represent roughly 20% of savings
  - LLLC versus NLC
    - Sample of projects - roughly 70% of NLC projects are confirmed LLLC
    - 5% NLC confirmed
    - In some cases unable to confirm – 24%
- Manufacturer Vendors
  - Tracking what systems are installed
  - Acuity nLight contributes almost half of the total
  - Fair amount of diversity - 16 products total
- Building distribution
  - A few years ago more warehouse heavy
  - Now a good spread of different building types – industrial, office, school warehouse
  - Alignment of sq-footage and savings opportunities
  - Industrial side is a positive
    - Initial push back on industrial side to lighting controls
  - Making headway
- Questions
  - Julie- retrofit or new construction?
  - No incentives offered for new construction
  - PSE does offer new construction but on a space by case
- Eric - does anyone account for specific space by space groupings in energy saving analysis ?
  - No, although PSE looks at space by space requirements in New Construction
- Anne comment- Bill Hibbs thought Clark PUDs projects were from a couple of aggressive, savvy trade allies and from leverage TAN NW
- General Questions & Discussion
  - Walker – shared some SLC data
    - Lighting projects since 2020 has a steady increase of LLLC projects
    - LLLC contributed about 2% of all lighting and increased to 7% in the past few years
    - 2024 might be best year in lighting since 2019
  - Eric - What intersection of building performance standards and LLLCs/NLCs are you seeing?
    - Start with commissioning then early measures
    - Compliance
    - Anne - Chris Meek at UW IDL has recommended LLLCs to people as an early opportunity in that process
    - Eric - Persistence of lighting controls in general tends to be very low
      - Project had everything setup and ready to go and then building owner said turn all that off (daylighting side)
  - Julie - Additional engagement with trade allies?
    - Walker - Some hesitation from distributors to specify resulted in program creating an info sheet
      - Participating in DLC's NLC-Local pilot
        - Working on a way contractors can send projects to DLC to run it through filters and make sure everything is setup for utility integration and programs
        - Might be something DLC might start charging for
      - Today focused on downstream incentives but midstream incentives are present
      - SLC ordered boards that can display things easily (same ones that TAN NW and NEEA use)
        - 3 of them at Smart Building Center
    - Mattias - good relationship with local distributors that can work with trade allies
      - Challenge to get them to consider LLLC fixtures
      - Small project underway that plan to use as a springboard
        - Eric offered BPA's help to develop case study

- Anne - LLLC is getting onto the table now for a project, but often hearing about it getting value engineered out. How can we play a role to help LLLC be less likely to be value engineered out?
  - Walker - time of use rates may help with that
  - Eric - Case studies are crucial to this
  - The power of high end trim
    - Most spaces over lit after lighting retrofit
  - Having similar facilities where you can show savings
  - Non Energy Benefits
    - Heat maps
    - Reconfigurability for an office
  - Need to increase confidence in savings
  - John Petosa just did a project recently with a large manufacturer
    - Engineer will meter before and after
    - Potential case study before year end

### Q3 Topic Check In – Efficient Fans 101

Desired Outcome: Committee members confirm there is enough interest in this topic to hold time on the Q3 agenda and to invite anyone else who is working on custom projects and drive programs.

Tamara Anderson from NEEA reached out to ISCC to see if they are still interested in Efficient Fans 101 as the topic and are there specific questions that you would like answered in the topic discussion in Q3.

EM, BPA – Yes, following Warren’s Model would be great!

JB, Tacoma Power – Policy and Codes and Standards as well as breaking it down into buckets was immensely helpful for Pumps, so if we could do the same that would be ideal.

NG, Pacific Power – Whatever data is coming in. I would be more interested in hearing about the initiative more than the 101 approach.

OK, Energy Trust – Warrens approach works for me!

TA, NEEA – What we have done internally is pretty limited in terms of our analysis since we don’t have 3<sup>rd</sup> party information yet.

JB, Tacoma Power - For me, the 101 focusing on "why should I care" vs this is how this technology works.

TA, NEEA – Not anticipating this being a heavy technical conversation. But if are there individuals in your organizations that might be interested in this topic, it would be good to invite them to the August meeting.

EM, BPA – My initial inclination is that I have several engineers that might be interested in hearing this conversation. But is there something we can take back to our teams that might help them understand the metric? For me that would be useful.

**Q To Answer:** Efficient Fans 101 – Why should we care? What is FEI? Where do you find it? How do you use it to apply to efficiency!

**Action Item:** ALL COMMITTEE MEMBERS, reach out to your organization and see if there are any individuals who might want to hear more about Fans or the FEI and invite them to our August 15<sup>th</sup> Q3 ISCC Meeting. Th

### Housekeeping

Enter notes from discussion and capture any action items

RPAC Updates:

- NEEA Staff will continue the Stakeholder Funder Roadshow and meet with utilities that they have not had an opportunity to see yet through the end of the year.
- RPAC+ team was united in using the new HPWH Campaign along with NEEA from July – August 2024
- Manufactured Homes is now shifting to long term tracking and monitoring in Q3.

NEEAs 2022 Residential Building Stock Assessment is now available on [NEEA.org/rbsa](https://www.neea.org/rbsa)

**Q3 ISCC meeting will be virtual on August 15.**

**Q4 ISCC meeting will be hybrid (in person if possible) November 6-7 in SEATAC.**

## Recap, Next Steps, Adjourn

### Events and action items discussed at this meeting:

Q3 ISCC meeting will be virtual on August 15.

Q4 ISCC meeting will be hybrid (please be in person if possible) November 6-7 in SEATAC.

- Plan your travel accordingly! NEEA staff will reach out for dietary restrictions and additional information closer to the meeting.

**Action Item: ALL COMMITTEE MEMBERS, reach out to your organization and see if there are any individuals who might want to hear more about Fans or the FEI and invite them to our August 15<sup>th</sup> Q3 ISCC Meeting.**