

Regional Portfolio Advisory Committee



DATE: Thursday, August 22, 2024
TIME: 12:30-4:15pm PDT
LOCATION: Virtual via Microsoft Teams
VIRTUAL: [Click here to join the meeting](#) (Meeting ID: 268 439 475 302 | Passcode: 7d3NrS)
 (if needed) Call-in audio only: 971-323-0535 | Phone Conference ID: 796 535 935#

AGENDA (All Times Pacific)			Page #
12:30-12:50 <i>(20 min)</i>	Welcome, Introductions and Agenda	All	1-2
12:50-1:05 <i>(15 min)</i>	Housekeeping and Looking Ahead <ul style="list-style-type: none"> ● Coordinating Committee ● Q4 RPAC Charter Review ● General Updates <ul style="list-style-type: none"> ○ HPWH Consumer Campaign ● Announcements & Reminders <ul style="list-style-type: none"> ○ Leadership in EE Awards – nominate today! ○ NEEA 2023 Annual Report released in June ○ 2025 Operations Plan overview webinar Oct 16 <p><i>Desired Outcome: Committee aware of recent developments and upcoming topics for engagement.</i></p>	Alisyn Maggiora Britt Cutsforth Dawkins	--
1:05-1:25 <i>(20 min)</i>	Coordinating Committee Assessment & Charter Changes <ul style="list-style-type: none"> ● Coordinating Committee changes for 2025 ● Review “universal” charter (covers both committees) <p><i>Desired Outcome: Committee understands and supports recommended structural changes to coordinating committees and updates to the combined charter.</i></p>	Alisyn Maggiora	3-8
10 min	BREAK		
1:35-1:55 <i>(20 min)</i>	Instituting Initiative Lifecycle (ILC) Vote at Long-Term Monitoring & Tracking (LTMT) <ul style="list-style-type: none"> ● Proposal Review & Discussion <p><i>Desired Outcome: Committee informed on purpose for adding a third vote to the alliances program stage gate process and offers input for consideration in the final proposal and resulting RPAC/NGAC charter changes.</i></p>	Alisyn Maggiora	9-10
1:55-2:25 <i>(30 min)</i>	Manufactured Homes <ul style="list-style-type: none"> ● Market transformation highlights ● Transition to Long-Term Monitoring & Tracking (LTMT) <p><i>Desired Outcome: Committee members are aware of the past, present, and future of the manufactured housing market in the Northwest.</i></p>	Mark Rehley	11-14
10 min	BREAK		
2:35-3:20 <i>(45 min)</i>	RPAC Round Robin <ul style="list-style-type: none"> ● Big changes (programs/personnel) ● Current challenges, lessons learned ● How utility activities relate to NEEA’s ● Sharable tools/materials ● Equity, hard-to-reach markets ● Findings, filings, IRPs 	RPAC Members	--
10 min	BREAK		

3:30-4:05 (35 min)	Peak Value for Portfolio Management in Cycle 7 (2025-29) <ul style="list-style-type: none"> ● Brief reminder on Cycle 7 goals ● Current portfolio status relative to peak impacts ● Discussion questions posed to committee <p><i>Desired Outcome: Committee members are aware of NEEA's proposed directional approach and provide feedback to guide how peak will be operationalized in portfolio decisions.</i></p>	Emily Moore Ryan Brown	15
4:05-4:15 (10 min)	Wrap-Up & Adjourn	Alisyn Maggiora	

Informational Updates:

- **Page 16-17:** Informational Memo: High-Performance Windows Program Update
- **Page 18-20:** Q2/Q3 Committee Updates

Additional Reference Materials:

- **Programmatic Updates:**
 - [Q2 2024 Market Progress Report](#) (Gas + Electric Programs)
- **Committee Meeting Materials & Charters:**

Please review the committee updates summary on pg. 18 for a quick recap on each committee's activities over the past 1-2 quarters.

 - Advisory Committees
 - Q2 2024 RPAC meeting [packet](#), [slides](#) and [notes](#)
 - Q2 2024 Cost Effectiveness and Evaluation Advisory Committee [packet](#), [slides](#), [notes](#)
 - July 31 Interim Special CEAC session [packet](#), [slides](#), notes (forthcoming)
 - Q2 2024 Regional Emerging Tech Advisory Committee [packet](#), [slides](#) and [notes](#)
 - Coordinating Committees
 - Q2 2024 Products Coordinating Committee [packet](#), slides [day 1](#), [day 2](#) and [notes](#)
 - Q2 2024 Integrated Systems Coordinating Committee [packet](#), [slides](#), and [notes](#)
 - 2024 Annual Workplans: [Products \(PCC\)](#) | [Integrated Systems \(ISCC\)](#)
 - Charters: [RPAC](#), [ISCC](#), [PCC](#), [CEAC](#), [RETAC](#)
- **Latest Functional Newsletters:**
 - Q2 2024 Newsletter – [Market Research and Evaluation](#)
 - Q2 2024 Newsletter – [Emerging Technology](#)
 - Q1 2023 Newsletter – [Codes, Standards and New Construction](#)

Memorandum – Tier 1 (Agenda Item)

August 15, 2024



TO: Regional Portfolio Advisory Committee (RPAC)

FROM: Alisyn Maggiora, Sr. Stakeholder Relations Manager
Anouksha Gardner, Stakeholder Relations Manager (Coordinating Committees facilitator)

SUBJECT: NEEA’s 2024 Coordinating Committee Assessment & Proposed Changes

Our Ask of You:

Review the following proposed changes to the coordinating committees and provide any further input no later than October 1.

Background:

Since the 2019 streamlining effort that transitioned NEEA’s three sector advisory committees into two coordination committees, continuous improvement efforts continued year-over-year. Examples include shorter meetings (or breaking full day meetings into two half-days), simplified number of topics, and annual planning to co-create regional priority topics to increase value exchange.

As part of the 2024 Stakeholder Satisfaction Survey, respondents were asked to provide specific input on NEEA’s coordinating committees’ effectiveness, structure, and overall opportunities for improvement. These responses, along with one-on-one input from both committee members and NEEA program managers (who contribute to coordinating committees), shaped the scenario we propose to the committees for consideration and implementation in 2025.

Guiding Principles applied:

- **Convening emphasis over coordination** – not all NEEA market transformation programs have utility coordination points and therefore require a more customized approach in “air-time” with committees
- **Resource neutral**
- **Right people in the room** - Conference style, simultaneous breakout sessions where appropriate and subject matter experts contribute to deeper, more effective conversations.
- **No additional headcount to manage & less resource intensive** – decrease topic coordination workload (regional topics) for both committee members and NEEA staff
- **Flexible process** - Increase opportunities for ad-hoc topic needs built into annual workplan

Recommendation:

NEEA staff do not see a need for a wholesale revamp of the Coordinating Committees; however, there are proposed incremental improvements to the committee experience and overall value delivery related to meeting timing, length and materials. In Q2, NEEA staff proposed the following adjustments to coordinating committee members for feedback:

- Reducing meeting frequency from four to three meetings per year.
- Increasing flexibility within meeting agendas by adding more time for ad hoc topics, including those more broadly related to market trends or energy system needs.
- Ensuring at least one hybrid meeting each year for each committee.

- Discussing ways to streamline the packets.
- Officially adopting a sector-based structure for the coordinating committees (i.e., residential and commercial/ industrial) to better align with the organizational structure within utilities. Likewise, renaming the committees accordingly: Residential Coordinating Committee (RCC) and Commercial & Industrial Coordinating Committee (CICC).

All assigned committee members spanning both committees (33 representatives in total) have indicated their support of the proposed changes. A couple members did express preference to keep four meetings, however, were in support of scaling back to three if the majority were in favor, which is the case.

Timeline / Next Steps:

Time	Task
May/June	Discuss assessment insights and share proposed improvements with coordinating committees
June/July	Internal recommendation review/feedback; CC members discuss w/ Anouksha in 1:1s
August 22	Present proposal to RPAC for consultation and feedback
August/September	Share RPAC feedback; confirm final adjustments w/ coordinating committees
November/December	Share final proposed changes to implement in 2025 with RPAC

Please contact [Alisyn Maggiora](#) or [Anouksha Gardner](#) with any questions about this memo or the proposal.

Memorandum – Agenda Item



August 15, 2024

TO: Integrated Systems & Products Coordinating Committee Members

FROM: Alisyn Maggiora, Sr. Stakeholder Relations Manager

SUBJECT: Coordinating Committee “Universal Charter” Review

Ask of You:

Please review the proposed “Universal Charter” for the Coordinating Committees following this memo and provide feedback, if any, by October 1.

Context:

You may recall we did a charter check-in Q1 of this year. While NEEA committees do this annually, NEEA’s Board reviews all committee charters at the launch of a new business (funding) cycle or when major changes are warranted. NEEA’s next business cycle starts in 2025, so the board is starting its comprehensive reviews in Q4 and we need the committee to review it first. Since RPAC is the oversight body for the coordinating committees, it needs to review the coordinating committee charter before it goes to the board. RPAC will review its own charter changes in Q4.

Why are there changes? What are they?

In an effort to streamline materials going into the next business cycle, NEEA’s legal counsel proposed consolidating the two coordinating committee charters into one because they are identical. Thus, it’s prudent to have your review on this revised universal charter before it goes to the board.

When you review the charter, you will notice several changes, these include:

1. Combining the [Integrated Systems Coordinating Committee \(ISCC\) charter](#) and [Products Coordinating Committee \(PCC\) charter](#) into one “universal” charter (see next page in packet).
2. Streamlining / reorganizing content and grammatical adjustments to accommodate the combining effort noted above.
3. Small language tweaks or additions to better align with NEEA’s governing bylaws.

All changes made were done using the “track changes” review feature in Word so you can see what’s been edited. In cases where additions were made, NEEA’s legal counsel, Jim Underwood, made comments to describe the change and/or why (as indicated “[JU...]”). The current charters are linked above should you like to compare them side by side.

Please contact [Alisyn Maggiora](#) with any questions about this memo, or feedback on the proposed charter change.

COORDINATING COMMITTEES - UNIVERSAL CHARTER

Commented [JU1]: Consider use of one CC universal charter.

Coordinating Committees Purpose

The purpose of NEEA's the Coordinating Committees ("CCs") purpose is to support a Alliance success by collaborating with NEEA staff on coordination and optimization of NEEA's programs and related activities, to identify and manage through potential implementation challenges between NEEA and local utility activities, and seize leveraging opportunities that can drive amplified market influence.

Commented [JU2]: Add footnote to define "alliance" per neea.org.

This coordination is a critical and complementary function to support the Regional Portfolio Advisory Committee's ("RPAC") role to advise on NEEA's portfolio composition and management, consistent with the goals and objectives of NEEA's then-current Business Plan and annual Operations Plan. As such, the CCs are considered RPAC subcommittees and shall report to RPAC.

Coordinating Committees Authority

Commented [JU3]: Recommend tie-in to Authority as done with other Charters.

CCs are authorized to take actions and make recommendations necessary to fulfill the Responsibilities pursuant to this Universal Charter applicable to all CCs as delegated by NEEA's Board of Directors ("Board") as provided by NEEA's Bylaws.

Coordinating Committees Responsibilities

CCs are authorized by the Board under this Charter to carry out the following Responsibilities:

1. To support effective performance of NEEA's programs and related activities, consistent with the goals and objectives of NEEA's annual Operations Plan, coordinate with NEEA staff to (a) identify and manage through instances of conflicting activities in common markets, and (b) identify and seize opportunities for leverage among alliance and local programs.
2. Share knowledge, expertise and resources with NEEA's staff and RPAC members to improve the design, delivery and results of regional programs and related activities.
3. Ensure information and outcomes from CCs are shared within CCs' member organizations, and coordinate with RPAC member as needed to support RPAC's role.
4. Provide a forum for information exchange within the region on market and program updates and developments, and opportunities for collaboration.
5. Committee members and NEEA share a commitment to communicate and coordinate as part of this Committee with the intent of operating with transparency and clarity.

Commented [JU4]: Suggest change from "no surprises" to "transparency and clarity" from prior Shared Commitment language below.

Commented [JU5]: Suggest change from "no surprises" to "transparency and clarity" from prior Shared Commitment language below.

Coordinating Committees Membership

Each RPAC member may appoint one (1) representative from each RPAC member's home his/her organization, with that representative possessing sufficient expertise to fully inform alliance work, while serving on to serve on the CCs. Additionally, Bonneville Power Administration may appoint up to two (2) indirect NEEA funder representatives as that term is defined by NEEA's Bylaws to participate on the CCs for two-year terms.

Commented [JU6]: Tie-in "indirect" funder to base in Bylaws.

¹The Northwest Energy Efficiency Alliance (NEEA) is an alliance of more than 140 utilities and energy efficiency organizations working on behalf of more than 13 million energy consumers to increase the adoption of energy-efficient products, services and practices. To do this, the alliance identifies and removes market barriers to energy efficiency to drive permanent change throughout the supply chain. This formalized, lasting approach is known as Market Transformation.

Open Coordinating Committees Meetings and Closed Sessions

All CCs' meetings ~~are shall be~~ open to the public. With the exception of sensitive or confidential information not appropriate for public dissemination, CCs' meeting materials (including but not limited to meeting packets, slide presentations, and summary notes) ~~are will be~~ posted for public access. A closed session for part or all of any CCs' committee meeting(s) may be called at any time to discuss sensitive or confidential information, ~~including but not limited to such~~ as competitive or proprietary information that shall not be publicly shared. Any CCs' member may request a closed session.

Coordinating Committees Meeting Schedule

~~The~~ CCs ~~will~~ determine along with NEEA staff ~~the~~ appropriate CCs' meeting(s) cadence based on the specific coordination needs of CCseach ~~CC~~.

Shared Commitment

~~CC members and NEEA staff share a commitment to robustly communicate within and among their respective organizations on the activities of this committee, in the spirit of collaboration and with the intent of operating with no surprises.~~

Commented [JU7]: Moved to Responsibilities for logical flow.

Charter Review ~~S~~chedule:

RPAC ~~will~~ reviews CCs ~~C~~harters annually to confirm need and resource availability. NEEA's ~~The~~ Board ~~will~~ reviews this Charter during the first year of NEEA's then current ~~the~~ funding cycle, or at other times as needed as determined by the Board.

Reference Chart

<i>NEEA Governance/ Management/ Advisory Roles and Responsibilities</i>	
NEEA Board	<ul style="list-style-type: none"> All corporate governance and fiduciary duties, including ensuring the system of rules, practices and processes by which NEEA is directed to balance the interests of the alliance's stakeholders, to support the achievement of the organization's purpose Strategic and Business Plan development and approval Operations Plan and budget approval
NEEA Executive Director	<ul style="list-style-type: none"> Manage the business of NEEA according to Strategic, Business and Operations Plans, set forth by Board Oversee business operations and staff
Regional Portfolio Advisory Committee ("RPAC")	<ul style="list-style-type: none"> Advise NEEA's Executive Director on portfolio performance and program advancement; "challenge flag" process; RPAC+ downstream marketing elections Monitor developments from other advisory committees with regard to regional coordination, market progress, and emerging technology
Coordinating Committees ("CCs")	<ul style="list-style-type: none"> Collaborate with NEEA Staff and report to RPAC on coordination and optimization of NEEA programs and related activities, to identify and manage through potential implementation challenges between NEEA and local utility activities, and seize opportunities for amplified market influence
Cost-Effectiveness and Evaluation Advisory	<ul style="list-style-type: none"> Advise NEEA's Executive Director on methods, data sources and inputs for use in NEEA's cost-benefit analysis and energy savings reporting

Committee (“CEAC”)	<ul style="list-style-type: none"> Advise NEEA’s Executive Director on market research and evaluation methodologies
Regional Emerging Technology Advisory Committee (“RETAC”)	<ul style="list-style-type: none"> Advise NEEA’s Executive Director on NEEA’s work toward achieving its strategic pipeline goals Track and coordinate the progression of energy efficiency technologies to improve technology readiness and market adoption in the Northwest
Natural Gas Advisory Committee (“NGAC”)	<ul style="list-style-type: none"> Advise NEEA’s Executive Director on gas portfolio performance and program advancement; “challenge flag” process; RPAC+ downstream marketing elections Monitor developments from other advisory committees with regard to market progress and emerging technology
Work Groups	<ul style="list-style-type: none"> Formed by RPAC on an as-needed basis and staffed with as-needed expertise, for a limited term and specific purpose that is distinct from that of RPAC, the CCs, and other Advisory Committees or Work Groups

Review process:



HISTORY

Source	Date	Action/Notes	Next Review Date
RPAC	November 13, 2019	Proposed Draft	Q1 2024
Governance Committee	TBD, by email	Recommended Board approval	Q2 2025
Executive Committee	TBD, by email	Recommended Board approval	Q2 2025
Board Decision	December 5, 2019	Board approval	Q2 2025

Commented [J08]: Jane, please move chart as in past redlines.

Memorandum – Agenda Item



August 15, 2024

TO: Regional Portfolio Advisory Committee (RPAC)
FROM: Alisyn Maggiora, Sr. Stakeholder Relations Manager
SUBJECT: Rationale and Recommended Process for Instituting a third ILC milestone vote at Long-Term Monitoring & Tracking (LTMT)

Our Ask of You:

Review the context below and come to the Q3 RPAC meeting with questions and thoughts for consideration. This review and discussion in Q3 will provide NEEA staff with the input necessary to finalize proposed RPAC process & charter changes with the committee in Q4.

Background:

- The C7 business plan recognizes that Market Transformation will progress at different rates around the region, depending on economic, geographic, and demographic conditions, as well as the availability of local programs. It calls on NEEA to support sub-regional needs to ensure that value is delivered fairly across the region.
- In the past, NEEA has addressed differences in market diffusion across the region by opting to remain engaged in one location, while exiting the same market in other parts of the region. Or, by targeting geographically specific market barriers in a state or location that aren't experienced across the region. These activities are balanced annually through NEEA's annual operations planning process.
- During the Cycle 7 business planning process, funding stakeholders identified NEEA's initiative lifecycle (ILC) process as a tool to recognize and consider regional variation in market adoption. Specifically, the addition of a third stage-gate vote prior to Long-term Monitoring and Tracking (LTMT) (i.e., the point at which NEEA ceases active market interventions).
- Currently, when planning to shift a program to LTMT, NEEA staff adhere to the following process:
 - Staff inform the Regional Portfolio and/or Natural Gas Advisory Committee (RPAC and/or NGAC) of the proposed transition and timeline for initial input and awareness.
 - Staff commission a Transition Market Progress Evaluation Report (TMPER) for the program.
 - Results of the TMPER along with NEEA staff recommendation are shared with RPAC/NGAC for final input and awareness.
 - The program is transitioned to the LTMT phase of the ILC at which point NEEA ceases market interventions.
- As described above, when requested, NEEA will consider extending program activities in a local utility market longer than planned if barriers identified in the program logic model have not been addressed. However, this conversation and agreement typically happens outside of the formal RPAC/NGAC decision-making process. While RPAC/NGAC are informed of plans for continued intervention, there is no formal vote in that decision.

Recommendation:

NEEA staff are recommending the addition of a third vote in the ILC process prior to the program transitioning to LTMT. Adding this vote will ensure the region has a tool to recognize and consider regional variation in market adoption. Furthermore, a formal vote at LTMT would ensure that regional input is considered within an established and transparent process, and that utilities who vote ‘no’ are required to engage in discussions with NEEA staff and fellow regional stakeholders to identify a path to ‘yes’ (as at other voting points in the ILC).

NEEA staff desire to mitigate significant impacts to staff/resourcing for both NEEA and committee members. Currently, the Concept Advancement and Program Advancement milestones require significant time investment by both NEEA staff and committee members to prepare and review milestone documents and organize team huddles to discuss in depth where requested. NEEA staff recommend maintaining the existing process (outlined above) for this milestone that 1) gives funders ample lead time on consideration for a program’s transition and 2) leverages the outcomes of the Transition Market Progress Evaluation Report (TMPER). The TMPER and staff recommendation memo would serve as the supporting documentation, in lieu of an additional, formalized “milestone” document.

Proposed ILC stage gate:



Recommended Process and Timeline:

- **Voting Process**
 - **Documentation:** TMPER + memo
 - **Feedback process:** Open call for feedback
 - **Vote:** Unanimous consent required, as with the other two voting milestones
- **Flags**
 - If RPAC does not reach full consent, the committee shall follow Step 4 under [Challenge Flag Process](#) articulated in the committee charter.
- **Milestone/stage gate name**

NEEA staff are brainstorming ideas; current considerations include:

• Transition to LTMT	• Transition advancement	• Diffusion monitoring
• Market exit	• Market advancement	• Diffusion advancement
• Intervention complete	• Market monitoring	• Monitoring advancement
- **Timing**
 - Q3 2024
 - Input from staff
 - Tee-up with portfolio advisory committees (RPAC and NGAC)
 - Q4 2024
 - Propose final process and charter changes to RPAC and NGAC, confirm recommendation to board
 - Q1 2025
 - NEEA Board reviews and approves charter changes

Please contact [Alisyn Maggiora](#) with any questions about this memo.

Memorandum – *Agenda item*



August 15, 2024

TO: Regional Portfolio Advisory Committee (RPAC)
FROM: Mark Rehley, Director Codes, Standard, New Construction, and Emerging Technology
SUBJECT: Manufactured Home Program – Market Transformation Highlights

Our Ask of You:

Bring any remaining questions you have regarding NEEA’s Manufactured Homes Program as we prepare to formally move it to the Long-Term Monitoring and Tracking (LTMT) phase of the Initiative Lifecycle (ILC).

Overview:

Since 2016, NEEA’s portfolio has included a Manufactured Homes Market Transformation program. The program was built on the foundation of the Northwest Energy Efficient Manufactured (NEEM) Housing Program. NEEA focused on proving the viability of the NEEM+ specification by training manufacturers and retailers. Data collected from the program provided impactful for the U.S. Department of Energy (DOE) when they updated the Federal standard / HUD code in 2019. The standard is expected to go into effect in June 2025.

As part of our activities to prepare the program for moving into LTMT, the Transition Market Progress Evaluation Report (T-MPER) was published in December 2023. The evaluation concluded that the market for efficient manufactured homes is stable and sufficient market barriers have been removed that the market should continue to hold steady or slowly expand without additional interventions.

The T-MPER included three recommendations that are being implemented as LTMT and new emerging technology activities. See subsequent memo highlighting these recommendations and NEEA staff response.

Presentations to RPAC:

In preparation for this program change, over the past year+ NEEA staff have shared the history of the Manufactured Homes Program, the current status of the market, the results of the T-MPER and our plans for LTMT activities. This include:

- 2023 – Q2: Program overview, detailed history, and update on Federal standards and HUD code.
- 2023 – Q4: Memo on Federal Standard and HUD code
- 2024 – Q2: Overview of results of Transition Market Progress Evaluation Report
- 2024 – Q3: Transition to Long-Term Monitoring and Tracking phase presentation

August 22, 2024 RPAC Meeting:

At the August 22, 2024 RPAC meeting, NEEA staff will provide a short presentation on the Manufactured Homes Program history (Market Transformation highlights) and future as part of the LTMT phase.



Please contact [Mark Rehley](#) if you have questions about the **NEEA's manufactured home program and the transition to LTMT.**

Memorandum



August 15, 2024

TO: Regional Portfolio Advisory Committee (RPAC)
 FROM: Mark Rehley, Director, Codes, Standards, New Construction, and Emerging Technology
 SUBJECT: Manufactured Homes Program transition to Long Term Monitoring and Tracking

General

Long-Term Monitoring and Tracking (LTMT) is the final phase in the NEEA initiative lifecycle and when most initiative savings are realized and when NEEA reduces active engagement in the market.

- Start of LTMT: Reduce market intervention activities based on momentum and mechanisms
- During LTMT:
 - Monitor performance towards market progress indicators.
 - Maintain market relationships.
 - Adjust to and learn from changes in market.
 - Scan for new opportunities.
 - Participate in standards process if appropriate.
 - Track savings

Manufactured Homes

After 8 years of program development and market transformation activities, the Manufactured Homes Program is moving to Long-Term Monitoring and Tracking. This memo summarizes the learnings from the [T-MPER](#) and NEEA staff’s response to the recommendations.

Table 2 of the T-MPER includes the assessment of market progress indicators that have been met by the program. Table 3 includes the recommended diffusion indicators.

Table 2. MPI assessment

MPI	Assessment
Manufacturers are able to build to the NEEM+ specification.	Met
Incented incremental cost of NEEM+ is less than 5% over comparable homes.	Met
Manufactured home retailers increase sales of NEEM+ homes.	Met
Factory trainings in NEEM+ construction are held and test homes are built.	Met

Table 3. Recommended Diffusion Indicators

Area	Indicator
Meaningful efficiency specifications	Manufacturers and retailers offer manufactured homes meeting efficiency specifications that provide whole-home energy savings of at least 10% over a market average efficiency home sold in the Northwest.
	Market share of qualified homes remains steady or increases.
Viability of efficiency specifications	At least three manufacturers offer qualified homes.
	Qualified home sales are geographically distributed.

Northwest Energy Efficiency Alliance
 421 SW Sixth Avenue, Suite 600, Portland, OR 97204
 503.688.5400 | Fax 503.688.5447
neea.org | info@neea.org

Recommendations and NEEA's Response

[Manufactured Homes Transition MPER \(neea.org\)](#)

Recommendation 1: NEEA should continue to monitor the manufactured home market as the new ENERGY STAR specification takes effect in 2026 and the new Federal standard takes effect in 2025 to ensure NEEM+, or homes meeting other specifications that drive meaningful efficiency improvements, remain available and manufacturers continue to engage with Northwest Energy Works and assess whether opportunities for further intervention arise.

The Manufactured Homes Program plans to accept the recommendation. This is a normal part of the LTMT program phase. In addition, NEEA staff will also continue to monitor DOE's Net Zero Ready specification for Manufactured Homes.

Recommendation 2: NEEA and Northwest Energy Works should continue to work with EPA to support an update to the ENERGY STAR V3 specification that allows NEEM+ homes to qualify with minimal additional upgrades.

The Manufactured Homes Program plans to accept the recommendation and will add DOE's Net Zero Ready specification. NEEA staff and Northwest Energy Works will continue to engage DOE and ENERGY STAR to align the NEEM+ specification as closely as possible.

Recommendation 3: NEEA and partner organizations like the Regional Technical Forum should conduct an analysis to assess the relative energy savings between ENERGY STAR V3 and ZERH manufactured homes and NEEM+ homes and assess typical installation practices to ensure specifications effectively drive manufactured home efficiency in the Northwest.

The Manufactured Homes Program through NEEA's emerging technology group will continue to research energy savings for ENERGY STAR v3 including heat pumps and ZERH manufactured homes.

Timing

The plan is to formally move the program to the LTMT phase in 2025.

Questions

If you have any questions about the Manufactured Homes program's movement to LTMT, please contact Mark Rehley at mrehley@neea.org.

Memorandum – Agenda item



August 15, 2024

TO: Regional Portfolio Advisory Committee (RPAC)
FROM: Ryan Brown, Manager, Planning and Analysis
SUBJECT: Using Peak Value as a Portfolio Metric in Cycle 7 (2024-2029)

Ask of You:

Review the details below and come ready to share/discuss what metrics your organization is using to assess and prioritize peak demand reduction, and what NEEA staff should consider for a regional-level view. See specific discussion questions below.

Background:

[NEEA’s 2025-2029 Strategic and Business Plan](#)¹ established several focus areas for NEEA, one of which is, “Prioritizing energy savings at peak demand to ensure NEEA’s energy efficiency Market Transformation activities are delivering the highest value to the region.” (p. 5). In order to operationalize this, NEEA staff will add a metric assessing the regional peak value of market transformation programs to the portfolio metrics used when managing the portfolio. This will be considered alongside NEEA’s existing suite of portfolio metrics – savings potential, cost effectiveness, regional distribution of potential, risk profile, and strategic market value.

During this agenda topic at the RPAC meeting, NEEA staff will share a brief preview of the peak value metric that’s been developed, then facilitate a discussion to gather input and better understand the metrics that alliance members are using to assess and prioritize reducing peak demand in their programs and portfolios.

Please come to the meeting prepared to respond to the following:

- ***How and when does your organization include peak demand reductions in investment decisions?***
- ***What are the metrics you use and how are those calculated (at a high-level)?***
- ***What recommendations do you have for NEEA’s regional-level view of peak value?***

Please don’t hesitate to reach out to Ryan Brown (rbrown@neea.org) with any questions or comments about this memo or effort.

¹ <https://neea.org/about-neea/neea-business-strategic-plans?>

Memorandum – *Informational (Tier 2)*



August 15, 2024

TO: Regional Portfolio Advisory Committee (RPAC)

FROM: Emily Moore, Director, Portfolio and Tamara Anderson, Program Manager

SUBJECT: High-Performance Windows Program Update

Program Update

After careful consideration, NEEA staff has decided to move the High-Performance Windows (HPW) program from the Program Development phase back to Scanning beginning in 2025. In 2024, NEEA had paused program development activities to further assess the program’s benefit-cost ratio (BCR) and data challenges, which continue to be hurdles for the program’s viability. Acknowledging when a program in development is not proving out and re-prioritizing resources for more promising MT opportunities is an expected outcome of NEEA’s milestone stage gate process and is part of the over-arching value of the alliance in pooling resources and risks.

Background:

Since 2021, the High-Performance Windows program has been in Program Development, developing key strategies to help accelerate the adoption of high-performance windows. HPW, as defined by NEEA, are residential, primary windows with a U-Factor of 0.22 or lower. HPW also offer multiple high-value, non-energy benefits, including thermal comfort, reduced glare, and noise reduction. HPW also, like all building envelope measures, have a fuel-neutral benefit.

Key barriers for market adoption of HPW include low awareness of HPW from builders and installers, high first cost with a delayed return on investment, and perceived installation difficulty. Key program interventions have included development of market awareness via the Volume Builder Project, and documenting results in case studies ([Confederated Tribes of Grande Ronde](#), [Habitat for Humanity Bend/Redmond](#), and [Lennar](#)). The long-term goal has been for the current definition of HPW to be established as the go-to product for all homes, via inclusion in increasingly stringent codes while simultaneously increasingly advancing future iterations of the ENERGY STAR® specification.

Current Status:

After almost 3 years in Program Development, opportunities for transforming the market for residential primary windows remain. However, NEEA has also encountered significant challenges to advancing the HPW program to the Market Development phase. As acknowledged in the 2024 Operations Plan, the program has been at a crossroads given BCR and data challenges and limited activities this year to evaluating NEEA’s influence to-date on the market and ENERGY STAR Residential Windows version 7 specification, continuing to engage manufacturers and suppliers, and completing the remaining Volume Builder Pilot project.

Current Opportunities Include:

- HPW are more available in the market and are available from all major window manufacturers with lead times on par with double-pane or code complaint alternatives.
- The [ENERGY STAR V7](#) prescriptive path specification meets the target U-Factor of 0.22 set by NEEA.
- Interest in HPW is growing from builders and installers. Growing demand may lead to eventual decrease in pricing via manufacturers and local window suppliers.

Current Challenges Include:

- Current savings rates from the RTF's Single-Family Weatherization UES create a benefit cost ratio below the program target of 1, which makes the HPW program not viable.
- Lack of data from manufacturers prohibits a deeper understanding of the market and prohibits measurability for energy savings moving forward.
- In general, there has been a lack of interest in promoting HPW from manufacturers and window suppliers, as well as from industry organizations.

The Path Forward:

Going forward, NEEA Product Management staff will maintain relationships with manufacturers, monitor the RTF unit energy savings updates and/or data availability to inform potential positive updates to NEEA's benefit/cost ratio, leverage national and extra-regional partnerships for the purpose of aligning Market Transformation strategies, and monitor the market and policy landscape for opportunities to re-enter the market at a future time.

- Given the continued challenges for the program, NEEA staff has decided to discontinue the HPW program as a standalone program for 2025.
- Building Envelope scanning projects including a Commercial Secondary Windows Field Study, Grid-interactive Net Zero manufactured homes, and vacuum insulated panel retrofits.
- Utilities may consider and/or continue to develop programs focusing on retrofit and replacement of single-pane windows for HPW.
 - There is a Utility Program Collaboration working group via the Partnership for Advanced Window Solutions (PAWS) with information [here](#) for utilities interested in creating programs.
 - PAWS resources include the [Utility Playbook](#).
- NEEA plans to continue to monitor the HPW market, as well as change in the policy landscape and may enter back into the market at some time in the future when the time is right.

Please contact [Tamara Anderson](#), tanderson@neea.org if you have questions about the **HPW** Program.

Memorandum – Informational Update

August 15, 2024



TO: Regional Portfolio Advisory Committee (RPAC)

FROM: Anouksha Gardner, Stakeholder Relations Manager (Coordinating Committees)
Eric Olson, Sr. Manager, Product Management (RETAC)
Jonathan Belais, Policy Manager (CEAC)

SUBJECT: Update on recent committee meetings (Q2/Q3 2024)

Our Ask of You:

Please review the memo and bring any questions, recommendations, feedback, or concerns to the Q3 RPAC meeting, or contact NEEA staff listed below.

Reminder: Based on the feedback received from the Coordinating Committee members and NEEA program managers, to better align with committee members' sector-based composition (for the most part), we have reassigned our residential focused programs (Advanced Heat Pumps and High-Performance Windows) to the Products Coordinating Committee, and our commercial/industrial focused programs [Extended Motor Products Pumps and Circulators (XMP), and Efficient Fans] programs to Integrated Systems Coordinating Committee.

Integrated Systems Coordinating Committee (ISCC):

The Integrated Systems Coordinating Committee uses an annual planning process to co-create high-priority regional topics for the following NEEA programs (commercial & industrial focus): Luminaire Level Lighting Controls (LLLC), High-Performance HVAC, Extended Motor Products (XMP) Pumps & Circulators, Efficient Fans, and Better Bricks. This year's co-created regional priority topics are listed in the [ISCC 2024 Workplan](#).

In Q2 (May, 22 and 23), the ISCC focused on the following topics, which were identified by committee members as a regional priority for 2024: XMP Pumps and Circulators *Pumps 101 presentation by Sr. Program Manager Warren Fish* and Luminaire Level Lighting Controls *Takeaways from LLLC Projects* facilitated and presented by committee members. Committee members and NEEA Program Managers shared out on current program highlights and other organizational updates. The committee also reviewed and confirmed the regional priority topics and collaborators slated for Q3. Alisyn Maggiora, NEEA's Sr. Stakeholder Relations Manager, also presented recommendations from the Coordinating Committee Assessment and gathered initial input. To see what transpired in Q2 at ISCC, please see [agenda packet](#), [slides](#), and [notes](#) for detail. The Q3 (August 15) ISCC meeting is cancelled after consulting with the committee. The regional priority topic slated for Q3, *Efficient Fans 101*, will be presented in Q4.

Please contact [Stephanie Quinn](#) or [Anouksha Gardner](#) with questions about the ISCC.

Products Coordinating Committee (PCC):

Like the ISCC, the Products Coordinating Committee uses an annual planning process to co-create high-priority regional topics for the following NEEA programs (residential focus): Heat Pump Water Heaters (HPWH), Consumer Products/Retail Product Portfolio (RPP), Advanced Heat Pumps (Advanced HP), and High-Performance Windows. This year's co-created regional priority topics are listed in the [PCC 2024 Workplan](#).

In Q2 (June 24 and 25), the PCC focused on the following topic, which was identified by committee members as a regional priority for 2024: *Advanced Heat Pumps Coordination on planned or ongoing field studies/pilot studies/data collection facilitated and presented by Committee Members and a Presentation by RTF on rebate offerings*. The committee also reviewed and confirmed the regional priority topics and collaborators slated for Q3. Committee members and NEEA Program Managers shared out on latest program highlights and other organizational updates. Alisyn Maggiora, NEEA's Sr. Stakeholder Relations Manager, also presented recommendations from the Coordinating Committee Assessment and gathered initial input. To see what transpired in Q2 at PCC, please see [agenda packet](#), slides [day 1](#), [day 2](#) and [notes](#) for detail. In the Q3 2024 (September 12) meeting, the PCC will cover Heat Pump Water Heater: *How to increase installation competency*.

Please contact [Stephanie Quinn](#) or [Anouksha Gardner](#) with questions about the PCC.

Regional Emerging Technology Advisory Committee (RETAC)

At RETAC's Q2 meeting, we welcomed back Oak Ridge National Labs (ORNL). Staff from their Building Technologies Research and Integration Center (BTRIC), presented on innovative thermal storage technologies, including a thermoelectric heat pump dishwasher with heat recovery and a clothes dryer that utilizes heat recovery with a desiccant. ORNL is currently in partnership with Samsung to commercialize the technologies. Additional projects include a modular heat pump system utilizing hydronic lines that can utilize existing 120V service; a review of the lab's Smart Neighborhood Initiatives with grid-interactive homes with Southern Company; new, patented, low-carbon bio-based form insulation, and low-carbon cores for vacuum insulated panels. ORNL is also working on new air leak detection technology that can be used by homeowners, low-cost cold climate heat pump efforts, and, finally, gave a review of low-Global Warming Potential (GWP) refrigerant work.

New Buildings Institute (NBI) presented their electric school bus resiliency microgrid project in Hood River, OR, and a preview of their 120V Heat Pump Water Heater (HPWH) field study, load shifting, and time of use optimization in California. NBI also presented their central HPWH field validation work and evaluation of distribution grid level impacts of electrification.

Kevin Smit from the Northwest Power and Conservation Council provided an update on the Ninth Power Plan, and they sought input into identifying new energy efficiency measures.

Resources / reference:

- Meeting notes are available [here](#). The slide deck is available [here](#).
- To view the Product Council schedule and recordings of previous meetings or to submit requests for product councils, visit [neea.org](#).
- The Q3 RETAC meeting is scheduled for September 25.

Please contact [Eric Olson](#) or [Alisyn Maggiora](#) with any questions about RETAC.

Cost-Effectiveness Advisory Committee (CEAC)

Between its previously scheduled Q2 and Q3 meetings, CEAC convened for an interim meeting on July 31, 2024, to provide timely feedback on draft recommendations on the 3rd party state code evaluation assessment underway by NMR. This feedback will be incorporated into staff recommendations discussed in the Q3 and Q4 meetings.

During the Q3 CEAC meeting on August 28, 2024, NEEA staff will review key findings from the Idaho Residential Code Compliance Study. Following a review of the final assessment and 3rd party recommendations for state code evaluations, NEEA staff will review their initial recommendations for implementation and next steps. Committee members will be asked to provide feedback during the meeting prior to NEEA staff finalizing their recommendations in Q4. NEEA staff will also review and solicit feedback on CEAC engagement process for key assumptions updates. The NEEA Market Research and Evaluation team will share brief updates and answer questions about ongoing activities. Finally, NEEA staff will be asking for committee feedback on the CEAC charter prior to its review by the NEEA Board of Directors in Q4.

Recent meeting materials linked below:

- Q2 2024 Cost Effectiveness and Evaluation Advisory Committee [packet](#), [slides](#), [notes](#)
- July 31 Interim Special CEAC session [packet](#), [slides](#), notes (forthcoming)

Please contact [Stephanie Rider](#) or [Jonathan Belais](#) if you have questions about CEAC.