Natural Gas Advisor

Advisory Committee

Q2 2024 Meeting

April 24, 2024

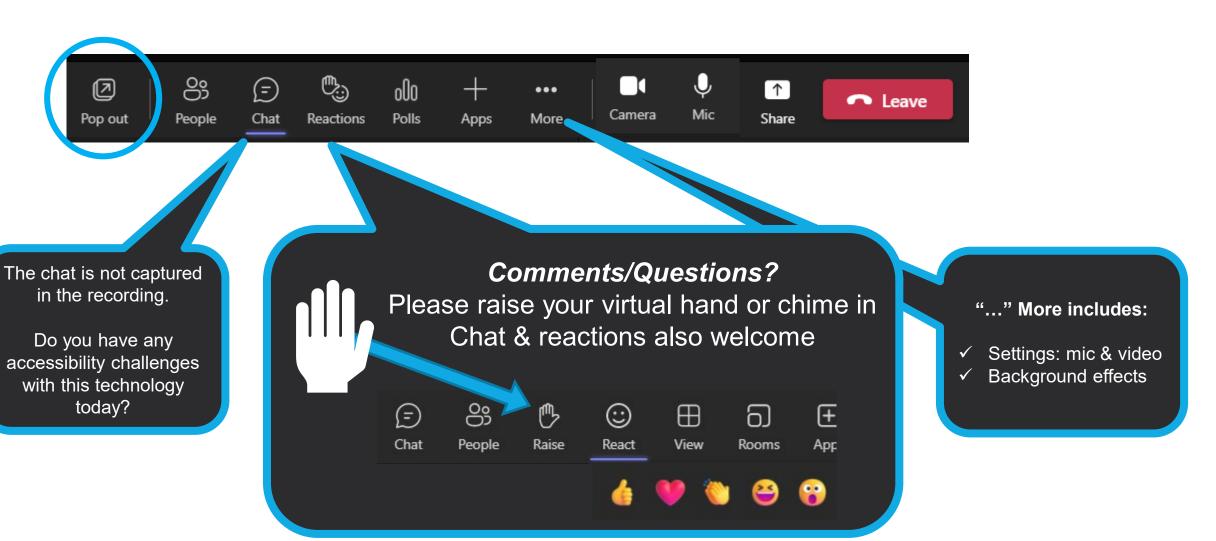
10am – 3pm Pacific

Hybrid: NEEA Office + Virtual





Tools for Today: Engaging on Teams





Agenda

All times Pacific

TIME	TOPIC
10:00-10:20	Welcome and Introductions
10:20-10:45	Round Robin *NEEA Request*: How have the changes in natural gas rates / costs affected your ability to have cost-effective gas efficiency programs? What trends / impacts do you foresee?
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2:45-2:55	Public comment, wrap up and adjourn



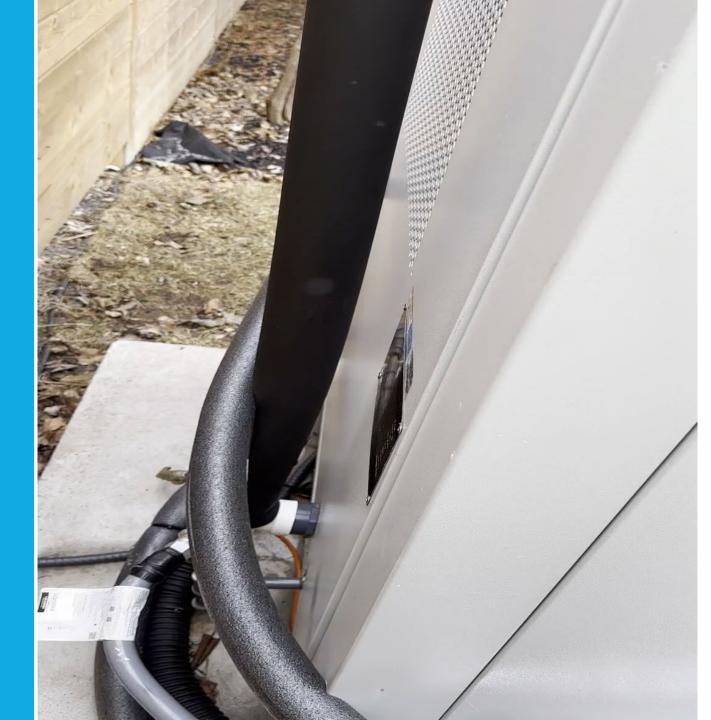


- Name
- Organization
- And...

XXX



Fun Highlight
Vicot Residential Gas
Heat Pump – LIVE!





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Round Robin

- > Focus: Organizational & program highlights since January
- > **SPECIAL REQUEST:** How have the changes in natural gas rates/costs affected your ability to have cost-effective gas efficiency programs? What trends/impacts do you foresee?





Break!





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Market Progress & Nortfolio Overview

Ryan Brown

Manager, Planning and Analysis, NEEA rbrown@neea.org





Annual Reporting Process – wrapping up in Q2

Review recent key assumption updates

Q1 2024

Review updates to key assumptions for annual savings reporting

Q2 2024

- Market Transformation Savings and Benefit-Cost Accounting and Reporting
- Publish final set of updates to key assumptions for annual savings reporting
- Review resulting Energy Savings estimates for the NEEA portfolio
- Review cost effectiveness assessment, peak savings and avoided carbon emissions
- Share key market trends and new findings

Market Transformation Savings and Cost Effectiveness Primer



Evaluation Supports Savings Reporting



Savings are important, but not how progress is measured

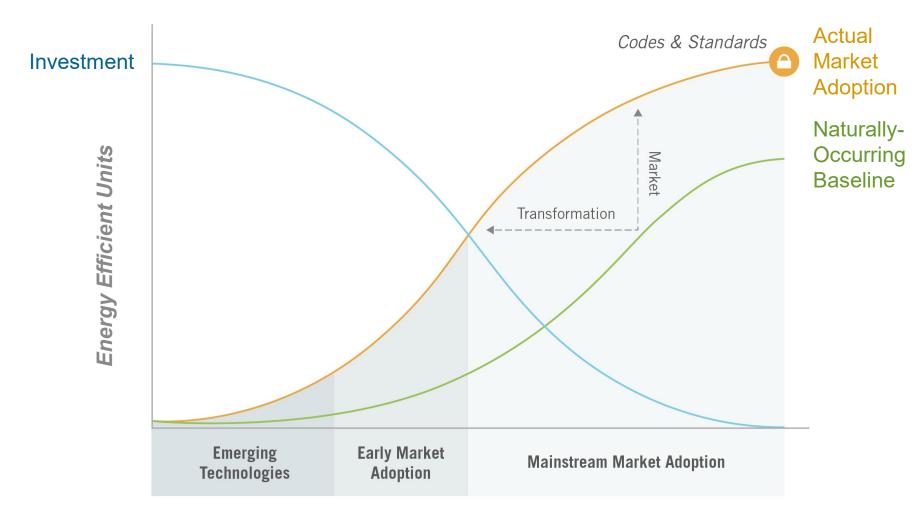


Progress is measured through evaluation of logic model



Evaluation enables savings reporting at the market level

Market Transformation





Market Transformation Baseline

Definition

 Market adoption and/or energy use forecast without market intervention

Purpose and Importance

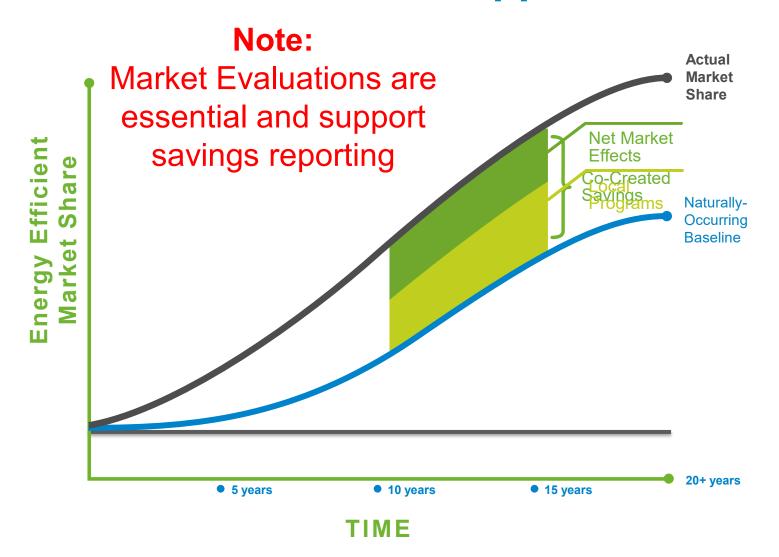
 To track the progress of Market Transformation efforts

Development

- Rationale developed internally
- Based on program logic
- Third party reviewed/verified



Market Transformation Approach



Purpose: Report savings associated with market transformation

Market Transformation Costs and Benefits

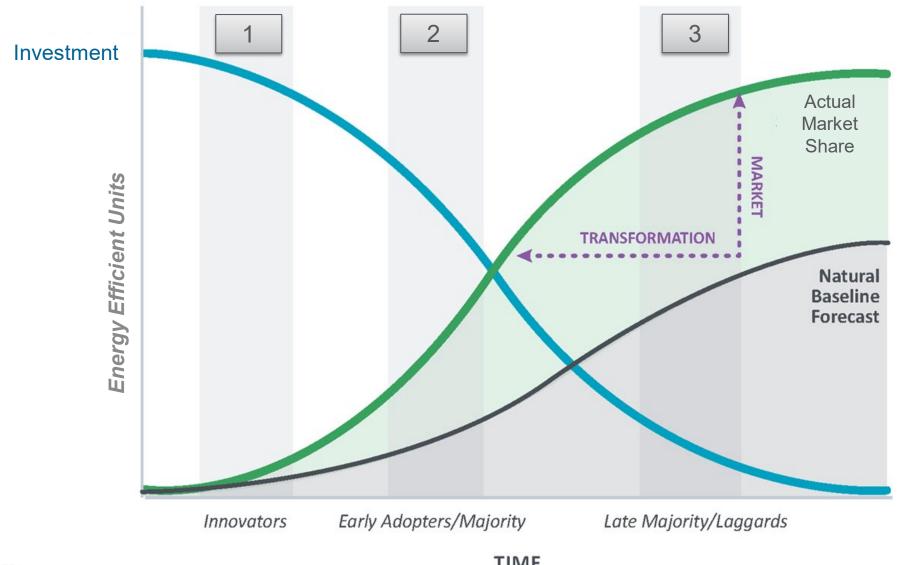


Metrics NEEA Calculates

- Benefit/Cost Ratio
 - "Do benefits outweigh the costs?"
 - Used for portfolio decision-making
 - Each NEEA program above 1.0
- Levelized cost
 - "How does the cost compare to alternatives?"



Purpose of 20 year time-frame



TIME



Inputs - Benefits

Regional Benefit		Source	
		Electricity	Natural Gas
	Commodity price of resource	Power Plan	Power Plan
Energy Benefit	Risk mitigation regarding supply adequacy		Weighted average of utility values
	Deferred transmission, distribution, and generation capacity costs		Weighted average of utility values
Avoided Greenhouse Gas emissions		i owei i laii	Power Plan
Production, storage, transmission and distribution loss			Avoided cost filings, IRPs and discussions with utility staff
Conservation of other fuels		Measure dependent	
Quantified non-energy impacts			
Regional Act Credit		NW Power Act	





> Inputs - Costs

Regional Cost	Source	
	Electricity	Natural Gas
First Cost		
Operations & maintenance costs	Measure dependent	
Replacement Cost		
NEEA direct costs	NEEA finance system	
NEEA administrative costs	20% of direct program spending	
Local Program administrative costs	20% of estimated total rebate dollars	
Other costs associated with market change		re dependent ental tax benefits given



Gas Portfolio Overview



Executive Summary

- Natural Gas portfolio is realizing foundational work
 - Advanced Commercial Gas Water Heaters program now in development
 - ERTU program actively executing program strategies
 - Exploring additional concepts in for advancement



Regional Market Transformation Portfolio Gas Investments

High Performance		
Windows – dual fuel	Efficient Rooftop Units – natural gas	Residential & Commercial Codes – dual fuel
Advanced Commercial Gas Water Heaters		Residential & Non- Residential Standards – dual fuel
<i>H</i> ((Advanced Commercial Gas Water Heaters	Advanced Commercial

Level of Program Maturity

Programs reporting energy savings in 2023 are in bold



Gas 2023 Co-Created Therm Savings



Portfolio is maturing, however codes remain the bulk of reportable savings

2023 Co-created Savings



Efficient Rooftop Units (ERTUs)



MT Theory: Accelerate the adoption of efficient gas rooftop units in the like-for-like replacement market while working to influence the adoption of improved test procedures and more stringent federal standards that require at least 20% more efficient RTUs than the 2020 market average.

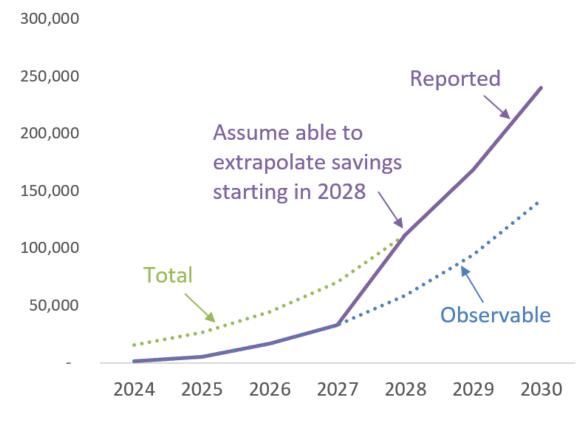
Highlights

- Worked with a major commodity RTU manufacturer to bring to market (expected in 2024) a bolt-on ERV for their RTUs
- Extra-regional collaboration with key EE partners to work towards alignment on ERTUs
- Continued building relationships with regional distributors and manufacturer's reps to refine market intervention strategies and improve NEEA's visibility to efficient unit sales



Efficient RTUs - Looking Forward





Key program efforts in next 2-3 years:

- Leverage introduction of commodity bolt-on ERV
- Perform expanded energy modeling to influence national market
- Continue to build an aligned coalition around RTU efficiency



Gas Cycle 6 Expectations





Avoided Carbon **Emissions:**

16,675 -21,310 tons

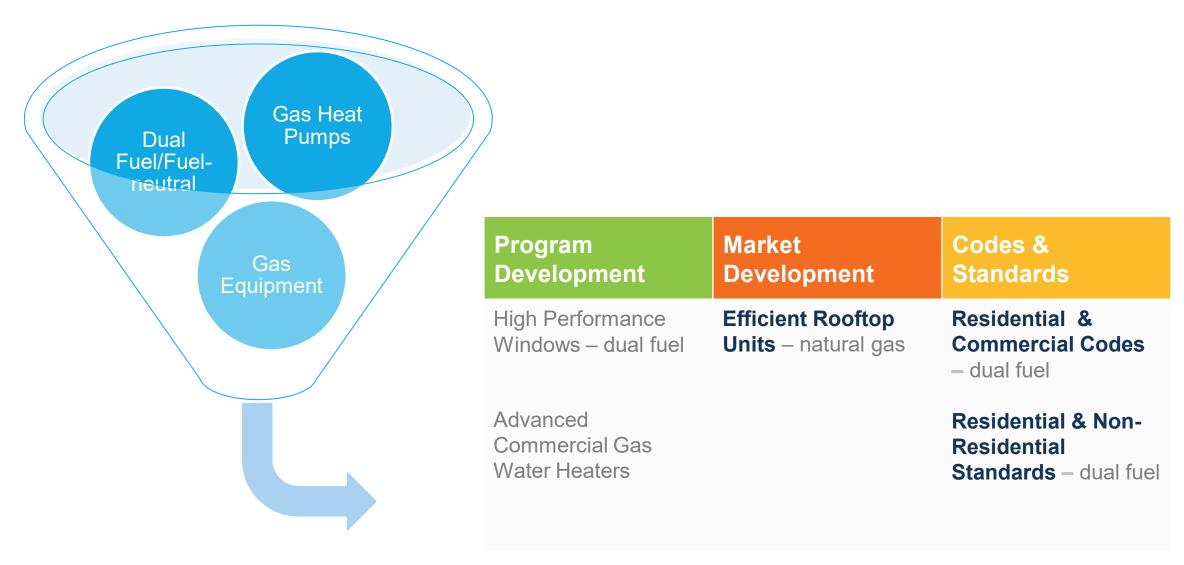


Expectations for Timing of Savings Reporting

Program	Products	Year Expected for Reporting
New Construction: Commercial	Specific proposals advanced in WA 2018	2021
Code	Specific proposals advanced in 2021 OEESC	2021
	Working on future code development in ID	TBD
New Construction: Residential	Residential Codes WA 2018	2021
Code	IECC 2018 with Idaho amendments	2021
	Or. Specialty Code 2023	2024
Efficient Rooftop Units	Efficient Rooftop Units	2023
Products: State and Federal	Commercial Kitchen Equipment (WA)	2021
Standards	Commercial Kitchen Equipment (OR)	2022
	Commercial Boilers (Federal)	2023
	Gas Furnaces	2027
High-Performance Windows	Windows	2024/2025
Efficient Gas Water Heater	Gas Heat Pump Water Heaters	TBD
Commercial Gas Water Heaters	TBD	TBD
Other concepts under	Dual-fuel HVAC	TBD – pending advancement
consideration for 2025-2029	High-Efficiency Dedicated Outdoor Air System	
	Efficient Commercial Gas Dryers	



Natural Gas Market Transformation in Cycle 7



Speak to your Cost Effectiveness & Evaluation Advisory Committee (CEAC) representative or join us on April 30 for more!!

Avista	Austin Ogelsby
Cascade Natural	Caleb Reimer
Energy Trust	Cory Hertog
NW Natural	Haixiao Huang
PSE	Kasey Curtis

Highlights from March 2024 CEAC



Updated Avoided Carbon Emissions for Natural Gas

Increases the monetary value of conservation

Updated Key Inputs for ERTU program

Benefit/Cost ratio remains above 1



Natural Gas Avoided Carbon Emissions Update

Evan Hatteberg

Market Analyst, NEEA March 6th, 2024





Background

- To more accurately evaluate the costeffectiveness of NEEA's natural gas portfolio, we are adding emissions benefits to ProCost Natural Gas Calculations.
- This is consistent with our costeffectiveness guidelines presented to CEAC in March 2023.
- Council staff provided review and input on NEEA's modifications to the ProCost tool for our regional cost-effectiveness.





Emissions Benefit Components

- Avoided Costs (\$/ton of CO₂e)
 - Social Cost of Carbon from 2021 Power Plan
- Emission Factors (lbs/therm saved)
 - CO₂ from combustion
 - CO₂e from upstream methane (CH₄) losses





Emissions Factors

- CO₂ From Combustion
 - **11.7** Ibs per Therm (EPA Estimate)
- CO₂e from upstream CH₄ losses
 - 0.055 lbs of CH₄ lost per Therm (NWPCC loss rate)
 - 29.8 100-year Global Warming Potential of CH₄ (IPCC)
 - **1.65** lbs CO₂e from upstream losses per Therm
- Total CO₂e per Therm
 - 13.34 pounds per Therm





Efficient Gas Rooftop Units: Key Input Updates

Aaron Ingle

Sr. Market Analyst, NEEA

March 6, 2024





Background

Program Review to Date:

- Third-party review of Natural Market Baseline and Key Assumptions* completed in Q3 2022
- Last presented to CEAC in Q3 2022
- Program entered Market Development in Q4 2022

This Review:

- Updates key inputs affecting savings rates and cost-effectiveness
- Does not change methodology or key assumptions reviewed in 2022.

^{*}Cadmus Group (2022). https://neea.org/img/documents/Review-of-Baseline-and-Key-Assumptions-for-Efficient-RTUs.pdf



> Key Input Updates

Update	Rationale	Impact to UESs?	Impact to BCRs?
Addition of 1-Floor Medium Office model to portfolio	Improves model portfolio representation of the applicable building stock	$\overline{\checkmark}$	$\overline{\checkmark}$
Correction of ERV fan electricity use in all models	Improves model representation of technology	\checkmark	\checkmark
Updates to climate zone weights	Improves representation of NEEA's gas funding territory	$\overline{\checkmark}$	$\overline{\checkmark}$
Updates to tier weights	Reflects program's current expectations of relative contributions of tiers to 20-year (forecast) total program savings		$\overline{\checkmark}$
Updated incremental cost inputs based on updated input data and calculations	Reflects updated incremental cost estimates and calculations		$\overline{\checkmark}$
Used updated ProCost including updates to gas calculations for avoided cost of carbon	Reflects NEEA's cost effectiveness policy		\checkmark



Updated Benefit-cost ratio results

Total Program BCR: 1.1 Previous estimate: 1.0

	Component	BCR
Tier	Tier 1	1.1
	Tier 2 (CGF / ERV)	1.2
Modeled Building Type	Grocery	1.2
	Retail	1.0
	Strip Mall	1.5
	1 Floor Medium Office	1.3
Heating Zone	Heating Zone 1	1.1
	Heating Zone 2	1.5
	Heating Zone 3	1.9

Note: NEEA uses the Total Resource Cost (TRC) perspective for cost-effectiveness analysis

Ryan Brown

Manager, Planning and Analysis rbrown@neea.org

Thank You!



































Please return by 12:30 Pacific





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Current Market Transformation Portfolio



>> PORTFOLIO UPDATE

- 2023 Year-end Financials
- Progress Report
 Highlights (Q1'24 recap)





Market Characterization of Water Heaters in Commercial Buildings

Anu Teja, MRE Sr. Scientist

April 24, 2024





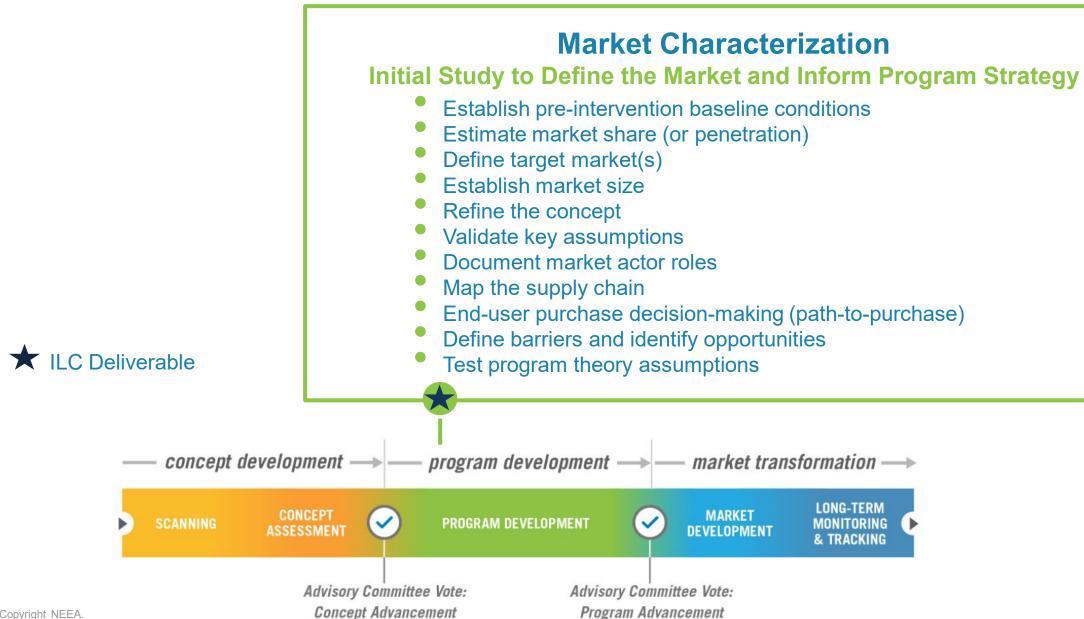
Where is Advanced Commercial Gas Water Heating in the Initiative Lifecycle (ILC)?

NEEA's ILC Process





NEEA Market Characterization Reports



Intended Sequence of Research Effort...

- NEEA will complete Market Research on Existing Waters Heaters in Select Commercial Buildings (Lodging, Restaurants & Multifamily).
- On the heels of above research, we will embark on a more robust Market Characterization study across the landscape of Commercial Buildings. Q3 2024 Q1 2024.

This will also include regions covered by the NA Collaborative.



Enbridge, Vicot/Homy and *iFlow*







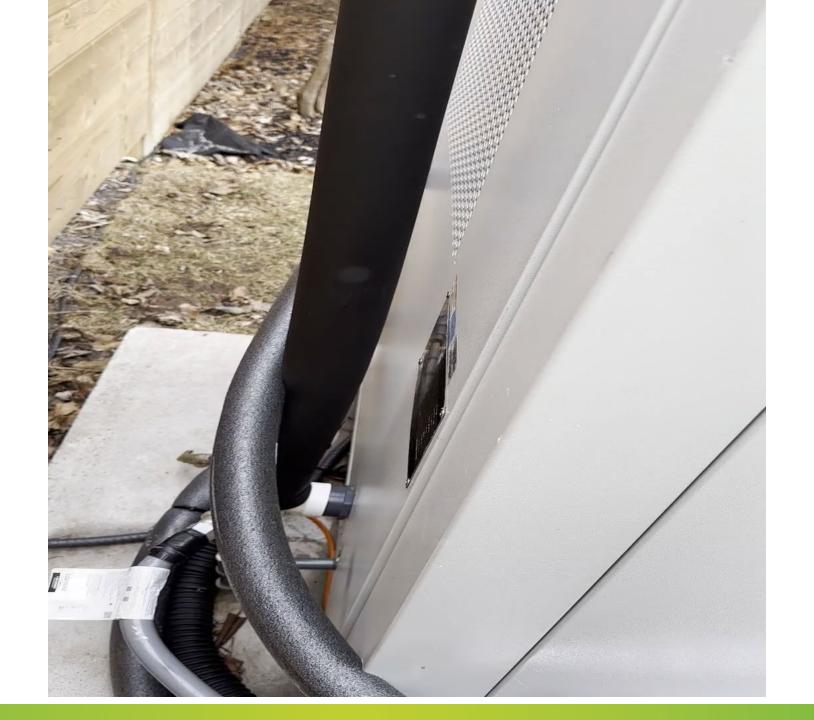
Enbridge, Vicot/Homy and iFlow





Enbridge, Vicot/Homy and iFlow

Video: Vicot Unit

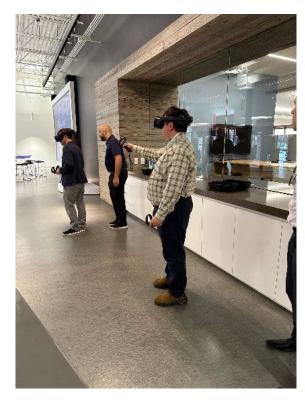


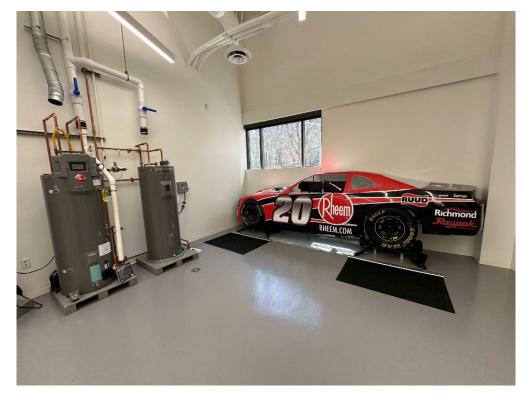




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ACEEE Hot Water & Hot Air Forum







Break!





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Housekeeping & Looking Ahead

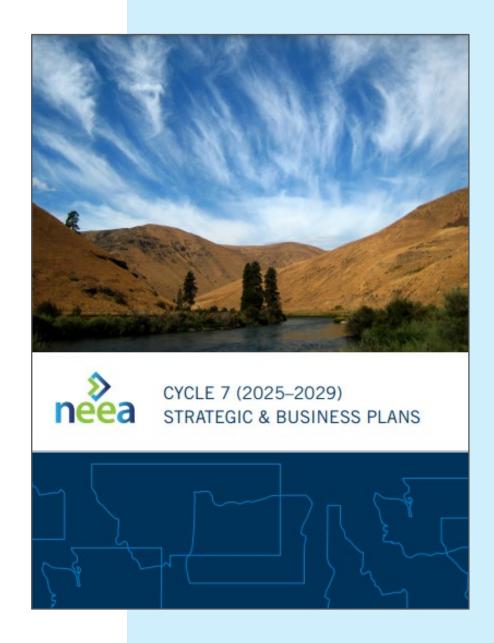
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- Load Flex Update
- Product Council Update
- Dual Fuel Workgroups Update
- Condensing Gas Storage Water Heater Research Request
- Notes & action items from <u>Jan 31</u>
- Looking Ahead
 - Efficiency Exchange May 14-15
 - Stakeholder Satisfaction Survey Update
 - Upcoming Meetings & Events



2025 – 2029 Strategic + Business Plans

Plans outline NEEA's comprehensive five-year strategy to deliver on its mission:

Catalyze the most efficient use of energy for a thriving Northwest.



End Use Load Flex Update (Becky Walker)



End Use Load Flex: Strategic Plan Context (2025-2029)

- Goal 1: Transform
 Markets for Energy
 Efficiency
- Goal 2: Accelerate the Adoption of Grid-Enabled End-Use Technologies through Market Transformation



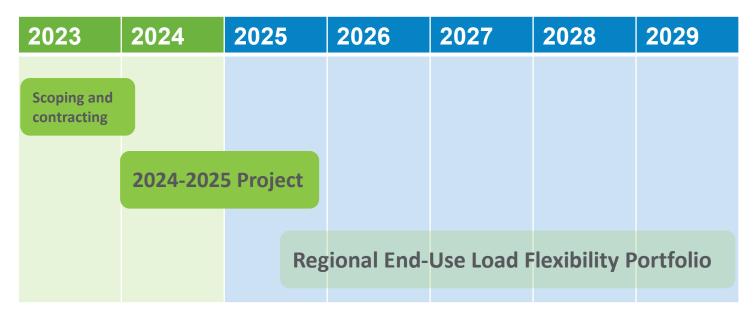
NEEA Cycle 7 (2025-2029) Strategic Plan

Draft - September, 2023



End Use Load Flex - Approach

Timeline:



NEEA's Role:

- Convene the region
- Identify emerging technologies and solutions
- Leverage existing market relationships
- Conduct market research and collect data



2024-2025 End Use Load Flex Key Activities

Task 1: End-Use Load Flexibility Steering Committee and Portfolio Development

- Engaging and informing participants in Project Tasks
- Sharing information, best practices and lessons learned
- Developing End-use Load Flex Portfolio. overview presentation and associated contracts

Task 2: Flexible Demand Solutions

- Accelerating product advancement, testing and demonstration of smart controls for electric heating
- Developing a strategy to drive rapid adoption of electric water heaters with embedded Universal Communication Modules
- Advancing unified regional approach to influence stakeholders

Task 3: Product Prioritization and Initial Insights Research

- Prioritizing products/programs for regional implementation
- Highlighting actions supporting increased consumer participation
- Understanding consumer insights



End Use Load Flex - Current Participants

- Avista Utilities
- Chelan County PUD
- Clark Public Utilities
- Emerald PUD
- Pacific Power (OR and WA)
- Portland General Electric
- Puget Sound Energy
- Seattle City Light
- Snohomish County PUD
- Tacoma Power



2022 RBSA Data Reveals Northwest Energy Trends



neea.org/rbsa



Product Council Updates

Noe Contreras

Product Manager, Gas

NContreras@neea.org





Existing Building Audits with QBAT - Product Council

- Pacific Northwest National Laboratory
 - Quick Building Assessment Tool (QBAT)
 - a simplified assessment
 - Demo:

https://www.energy.gov/scep/schoolneeds-and-benefits-assessmentresources

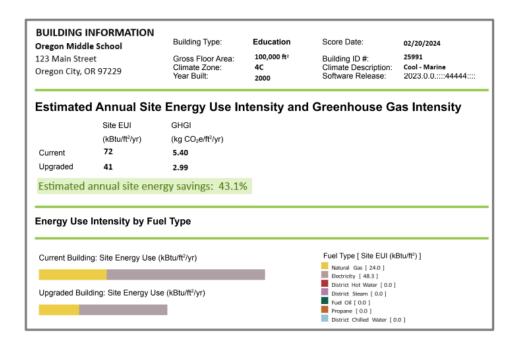


Case Study: Measure Impact

Measure Impact:

Estimated to save 43% energy for a school under typical operating conditions if ALL measures applied

NOTE: QBAT allows the user the flexibility to select fewer measures and re-simulate their building



Product Council





University of Idaho INTEGRATED DESIGN LAB BIO-BASED BUILDING MATERIALS

- Fire and Thermal Resistance Testing
- Commissioning the Manufacturing Plant
 - Wood Waste

Product Council



Washington State University - Integrated Design + Construction Laboratory

 Industrialized Construction (IC) methods – volumetric modular, panelized, Pre-Fab components and mass timber



Volumetric Modular

WSU Courtyard by Marriott Hotel (114 modular units) **Pullman, WA**



Panelized Modular

Modular multi-trade healthcare
headwall example



Pre-Fab. Components

Multi-Trade racks example



Mass Timber

Matt's Place Foundation home 2.0 (panelized MT) **Spokane, WA**

Product Council

Workgroup Updates NGAC Dual Fuel Product (Peter Christeleit)



Condensing Gas Storage Water Heater Research – Request

Aaron Winer & Anu Teja

NEEA & ILLUME Advising

April 2024

ILLUME



Research Objectives

- Understand purchaser behavior and attitudes including:
 - Identifying key market actors on the sales and installation journey
 - Explore the purchaser's reasons for and path to purchase this product
 - Understand orientation to other efficient appliances and equipment
- Identify key barriers or challenges they experienced in the purchase of this product, such as:
 - First cost consideration
 - Annual maintenance of the unit
 - Issues with call backs to the installer
 - Ease of use
- Understand their current experience and future thinking with the equipment, including:
 - Overall satisfaction of the unit
 - Interaction with the unit (adjustments)
 - Understanding what water heater might come next, such as willingness to replace current units with newer condensing units and under what scenarios (replacement or emergency etc.)



Study and Recruitment Design

Study Design:

- Up to 20 homeowners with a condensing gas water heater.
- Data collection via focus groups, small group interviews, and individual interviews.

Sampling Considerations

- Must own or have purchased a condensing gas water heater in past 10 vears
- Nationwide recruitment; aim for 50% in NW region
- Mix of urban and rural

Recruitment approach:

- Recruitment partner, Strategic Research, will conduct phone and email outreach to general population lists
- Outreach from gas utilities to their customers
- Possibly RBSA respondents who have **CGWHs**



Participation Offer

The text below will be distributed to potential participants via various channels. People who complete the eligibility survey will answer several questions about their water heaters and upload a photo of their water heater so the team can confirm it is a condensing gas water heater. If they are selected to participate, they will receive a \$150 gift card.

The Northwest Energy Efficiency Alliance (NEEA) has partnered with ILLUME Advising to conduct research on customer demand for gas water heaters. We are looking to speak with homeowners who have installed condensing gas storage water heaters in their homes. The eligibility survey will help determine what type of water heater you have if you are unsure.

The online focus groups will be scheduled in **July**. Customers who participate in a focus group will receive a \$150 gift card as a thank you for their time and insights.

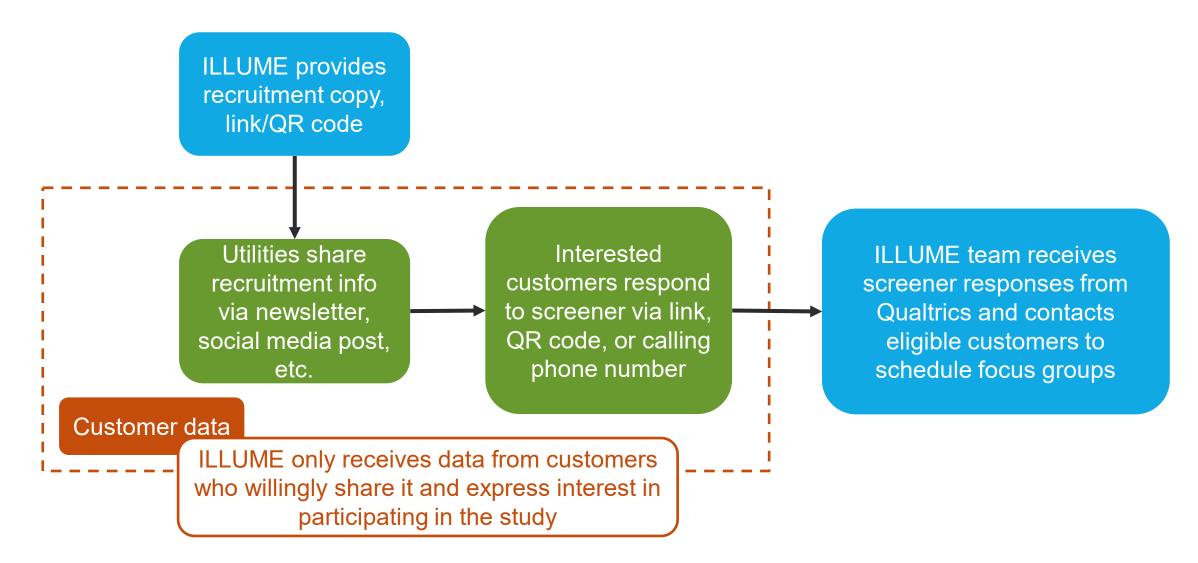
If you are interested in participating in a focus group, please answer the following questions by June 21st to help us determine your eligibility. The questions should take about 5 minutes to answer. Your responses will be kept confidential, and your participation is completely voluntary.

Click here to fill out the eligibility survey.

For more information on this research, please contact Kristen Dong at ILLUME Advising (kristen@illumeadvising.com) or Aaron Winer at NEEA (awiner@neea.org).



Recruitment Workflow





Recruitment Request

Are you willing/able to communicate with your customers with participation offer?

If so, please let Aaron Winer know by 5/1 at awiner@neea.org



Housekeeping & Looking Ahead

- ✓ Cycle 7 Business Plan Update
- ✓ Load Flex Update
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January 31 Notes & Action Items

Notes & action items from Jan 31





NGAC Member Action Items

- 1.Commercial Condensing Dryers
 - a. Jackie to send Michelle measure approval doc w/ sources
- 2.Condensing WH outreach
 - a. Committee members be prepared to help/advocate for outreach once you hear from Aaron; please check with your program folks
- 3. Vicot field demo opportunity
 - a. Let Noe know by Feb 14 if you have a site for this

NEEA Action Items

- 1.Condensing WH outreach
 - a. Aaron will come back to NGAC with research request / update and details for utilities (info for outreach to customers)
- 2.ERTU meas dev
 - a. NGAC members can expect outreach from Jason
- Codes
 - a. Mark to ask Tess to follow up with Carlos about WA code trainings/ resources
- 4.Q4 meeting location
 - a. Alisyn to investigate options near SeaTac

Additional edits or questions?

Looking Ahead





Stakeholder Satisfaction Survey

- Analysis of results underway
- Overall read:
 - Really strong positive feedback, increasing trends YOY in satisfaction
- Results presented to stakeholders:
 - Q2: NEEA board (late June)
 - Q3: NEEA committees (July-Sept)
- **Initial Actions:**
 - Stakeholder visits
 - Coordinating Committee assessment
 - General committee continuous improvement





Efficiency Exchange 2024



Register today!

neea.org/EFX

EFX24 Hybrid Conference May 14-15



Upcoming Meetings

Date	Event	Notes
Jun 5	Interim NGAC webinar	Tentative Cancel
Sept 19	Interim NGAC webinar*	Hold for Now (1-2pm)
Sept 19	NGAC Dual Fuel Product Work Group	Same Day as NGAC Interim Webinar (2-4pm)
Oct 22	Q4 NGAC Meeting	Hybrid @ Cedar Brook Lodge



*Potential Q3 Webinar Topic(s): Dual Fuel, High-Efficiency Dedicated Outside Air Systems



2024 Meeting Schedule

QUARTER	DAY	DATE	TIME (PACIFIC)	LOCATION
Q1'24	Wednesday	Jan 31	9am – 4pm hold	virtual
Interim Webinar	Thursday	Mar 7	1-2pm hold	virtual
Q2'24	Wednesday	Apr 24	9am – 4pm hold	@ NEEA's office
Interim Webinar	Wednesday	June 5	1-2pm hold	virtual
Q3'24	-	No Q3 mtg	-	
Interim Webinar	Thursday	Sept 19	1-2pm hold	virtual
Q4'24	Tuesday	Oct 22	9am – 4pm hold	@ Cedar Brook Lodge (near SeaTac)
Interim Webinar	Monday	Dec 9	1-2pm hold	virtual





Other regional / industry events or announcements?





Break!





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Dual Fuel Check-in (Peter Christeleit)



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Action Items | Any Final Qs?



NGAC Member Action Items

1. xx

NEEA Action Items

1. xx

Feedback What was helpful? What could be improved?

Public Comment

Closing Remarks

































