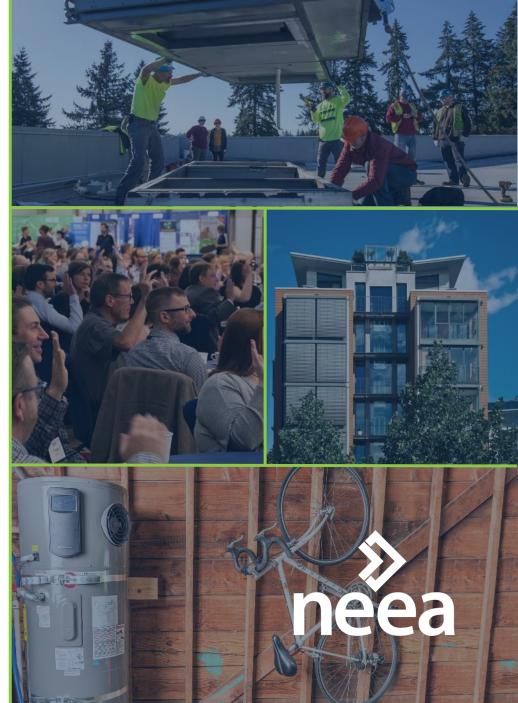


Regional Portfolio Advisory

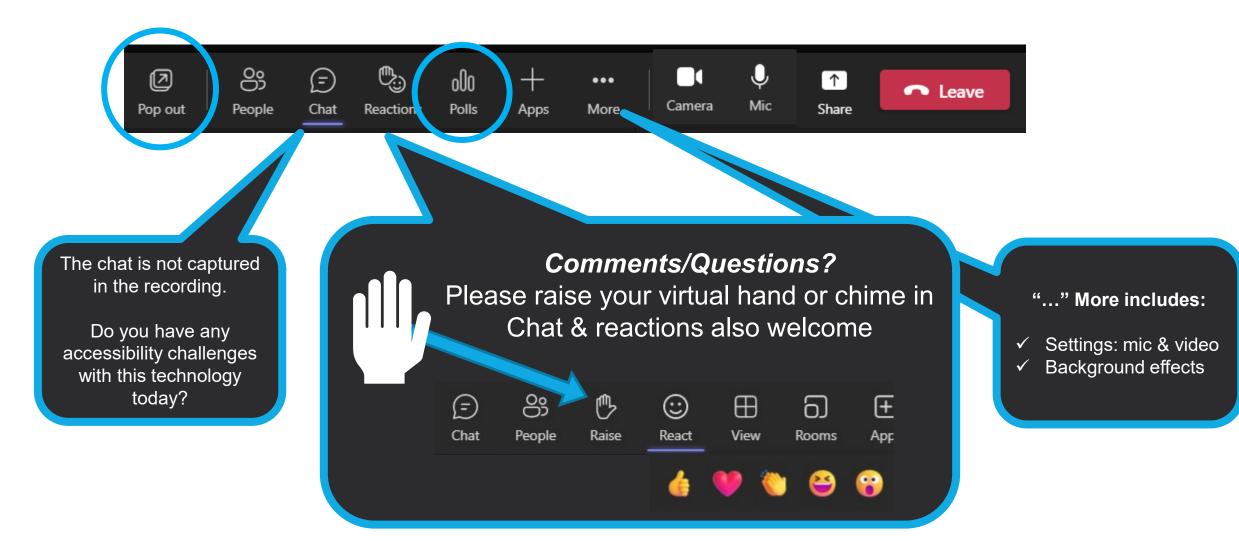
Committee

Q2 2023: May 18 9:30am – 3:15pm (Pacific) Hybrid



This meeting will be recorded and transcribed

Tools for Today: Engaging on Teams





Heads up: "Spotlighting" Speakers



Laura James, Pacific Power (replacing Don Jones)





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Name

Organization

• And....

XXX





All times Pacific

9:30-9:50	Welcome, Introductions and Agenda
9:50-10:20	 RPAC Round Robin Big changes (programs/personnel) Current challenges, lessons learned How utility activities relate to NEEA's Findings, filings, IRPs
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3:00-3:10	Public Comment, meeting debrief and adjourn

Role of Market Diffusion & NEEA's criteria for decision making

Packet Review & Informational Updates

<u>Tier 1: Agenda Focus Items</u>

- ✓ Market Transformation Overview (pg. 3)
- ✓ Electric Portfolio Update (pg. 4-12)
- ✓ Variable Speed Heat Pumps (pg. 13)
- Manufactured Homes Update (pg. 14)

<u>Tier 2: Informational Updates</u>

- HPWH Consumer Consideration Campaign (pg. 15)
- ✓ Update: Federal Funding Coordination Work Group (pg. 16)
- Q1/Q2 Committee Updates (pg. 17-18)

Tier 3: Additional Resources

Market Progress Report, committee materials (charters & recent meeting resources, functional newsletters







- Big changes (programs/personnel)
 - Current challenges, lessons learned
 - How utility activities relate to NEEA's
 - Sharable tools/materials
 - Equity, underserved markets
 - Findings, filings, IRPs



Housekeeping and Looking Ahead

- Upcoming Meetings
- ✓ EFX Recap
- ✓ Update: HPWH Marketing Campaign
- ✓ Update: NEEA Business Planning
- ✓ Update: Federal Funding Work Group





AC = Advisory Committee CC = Coordinating Committee

June	 June 6-7 → Products CC (Hybrid, Portland) June 13-14 → NEEA Board (Hybrid, Montana)
August	 August 14 → Integrated Systems CC (Virtual) August 17 → Products CC (Virtual) August 24 → Cost Effectiveness & Evaluation AC (Virtual) August 29 → Regional Portfolio AC (Virtual)
September	 September 21 → Regional Emerging Technology AC (TBD)

Efficiency Exchange Conference

Check out 2023 photos here!



<image>



Save the Date: May 14-15, 2024 Coeur d'Alene, Idaho



Proposed HPWH Consideration Campaign

- 2023 program focus on distributors and installers
- Ensure consumers are moving along in their journey
- Consumer awareness of HPWHs has grown significantly in the Northwest—and it is expected to continue to grow
- Recommendation
 - Take advantage of momentum
 - Run a small-scale consideration campaign with the purpose of moving consumers from awareness to consideration
- Next Steps
- Update Mid-October: Present the proposed campaign (Ops Plan webinar)
 - November: Provide feedback and comments
 - Q1 2024: Proposed campaign runs



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memo

Memo p.15

Business Planning for 2025-2029

Date	Business Plan Milestone
March	Draft Business Plan Outline Review
Мау	First Draft Strategic + Business Plan Review
June	Second Strategic + Business Plan Review
July/August	 Regional Outreach: 1-2 Regional Webinars; Targeted presentations/ outreach to NWEC, NWPCC, PNUCC, State Energy Offices, Commissions Email outreach through NEEA channels/neea.org
September	Summary of regional outreach, implications for plan, any final edits
November	Final Draft Strategic + Business Plan Review
December	Final Business Plan Approval

(Northwest) Federal Funding Coordination Work Group

Kickoff Meeting (5/4)

Share-out of activities, priorities, questions



Near-term Priorities:

- Workforce
- Marketing/Communication
- Tribal Engagement



Q3 Meeting aligned with (planned) Home Rebates Guidance



Interim deep-dives on near-term priorities

For more info, contact Jonathan Belais: JBelais@neea.org



Other Upcoming Events or Announcements?







All times Pacific

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15 min	BREAK
	Manufactured Homes Update
2:00-3:00	International contraction of the second seco









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Market Transformation 101

Accelerating Energy Efficiency with the Power of Markets

Jeff Harris Northwest Energy Efficiency Alliance



RPAC Q2 2023 Meeting



NEEA is ANALLIANCE of utilities and energy efficiency organizations





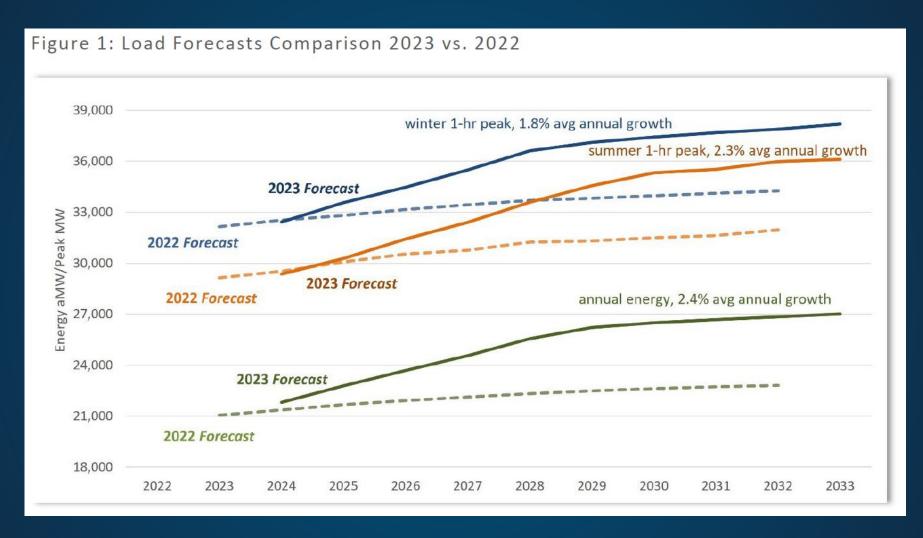
MT 101 — AGENDA

Why do it? What is it? How do you do it?

- Understanding markets
- Identifying barriers and opportunities
- Exploiting leverage points
- Deploying successful strategies
- Measuring progress, applying feedback
- Tools of the trade

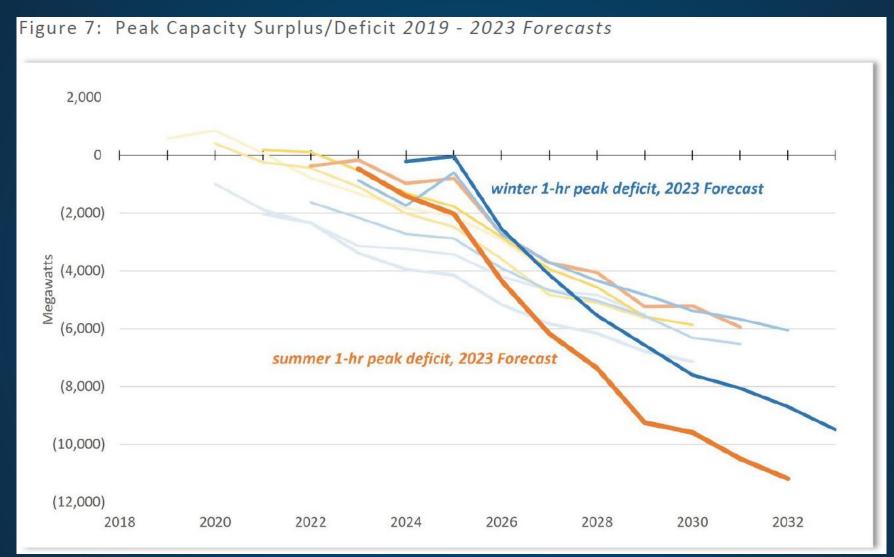
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Why? Reliable, Adequate and Economic Power System



Source: PNUCC 2023 Northwest Regional Forecast

Why? Reliable, Adequate and Economic Power System



Source: PNUCC 2023 Northwest Regional Forecast

Why? Energy Efficiency Innovation



80% reduction in energy/capacity needs

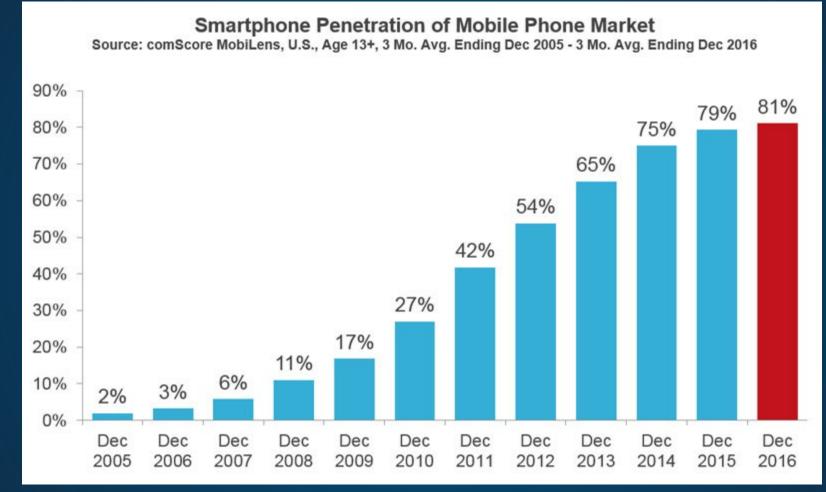
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Rogers, 1962 100 **Tipping Point** What does successful 75 Market share % innovation look like? 50 25 0 Innovators Early Early Late Laggards 16% 2.5% Adopters Majority Majority 13.5% 34% 34%

DIFFUSION OF INNOVATION

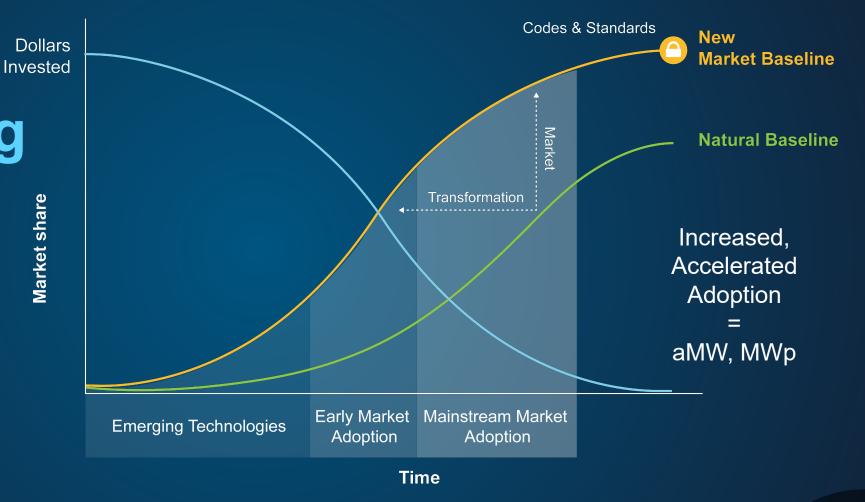
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Diffusion of Innovation in Real Life...



https://www.comscore.com/Insights/Blog/US-Smartphone-Penetration-Surpassed-80-Percent-in-2016

Market **Transformation:** Accelerating **Adoption** of Energy Efficiency Innovation



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What is it? **MARKET TRANSFORMATION** "The <u>strategic process</u> of <u>intervening in the market</u> to create <u>lasting change</u>"



What is it (long definition)?: **MARKET TRANSFORMATION** "The strategic process of intervening in the market to create lasting change by removing identified barriers and/or exploiting opportunities to accelerate the adoption of all cost-effective energy efficiency as a matter of standard practice."



How do you do it? Steps for MARKET TRANSFORMATION: Implementation



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30

Step 0: Market Characterization

...Let's talk about MARKETS



In mainstream economics, the concept of a market is any structure that allows buyers and sellers to exchange any type of goods, services and information. [Wikipedia]

Step 0: Market Characterization Buyers, Sellers, Supply and Demand



Step One (Part 1): Identify Barriers and Opportunities



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Step One (Part 2): Identify Barriers and Opportunities



Consumer Preferences



Technology Changes

C		
	==	
U		

State and Federal Legislation



Codes & Standards Spec Revisions



National Market Changes



Regional/National Supply-Side Market Actors



Economic Changes



Step Two, Part 1: Develop Strategies for Intervention



Provide credible information

Build market capability, knowledge and experience

Redefine the value proposition



Align EE product with Consumer Needs



Influence energy codes and standards



Step Two, Part 2: Define Key Metrics & Market Progress Indicators



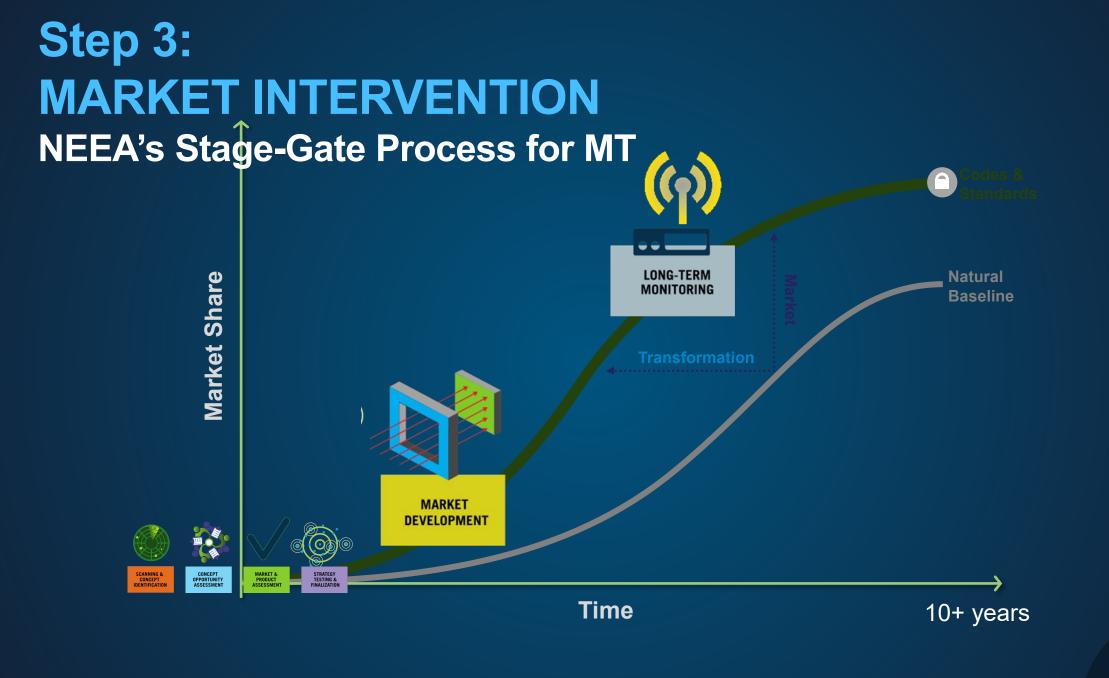




Step 3: IMPLEMENTATION NEEA's Stage-Gate Process for MT





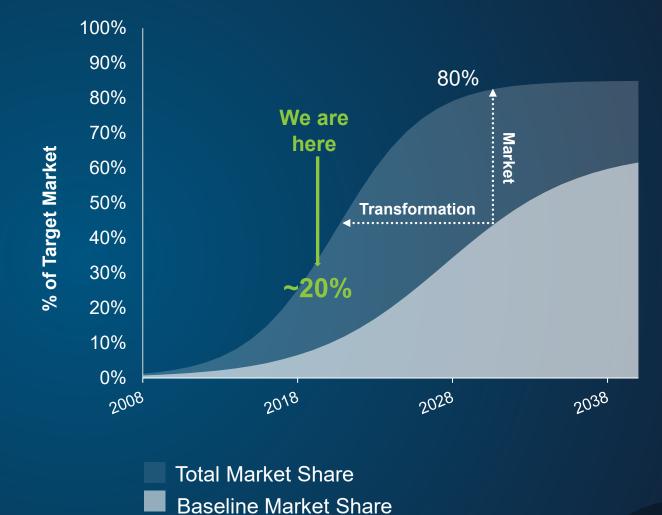


Ductless Heat Pumps MT in Action





Ductless Heat Pumps Market Transformation in Action



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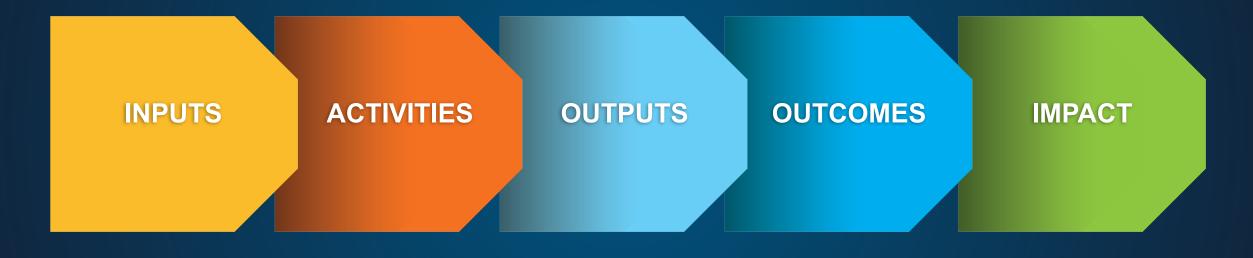


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Additional Material

Tools of the Trade:

Documenting the MT program theory and defining metrics: Logic Models and Market Progress Indicators

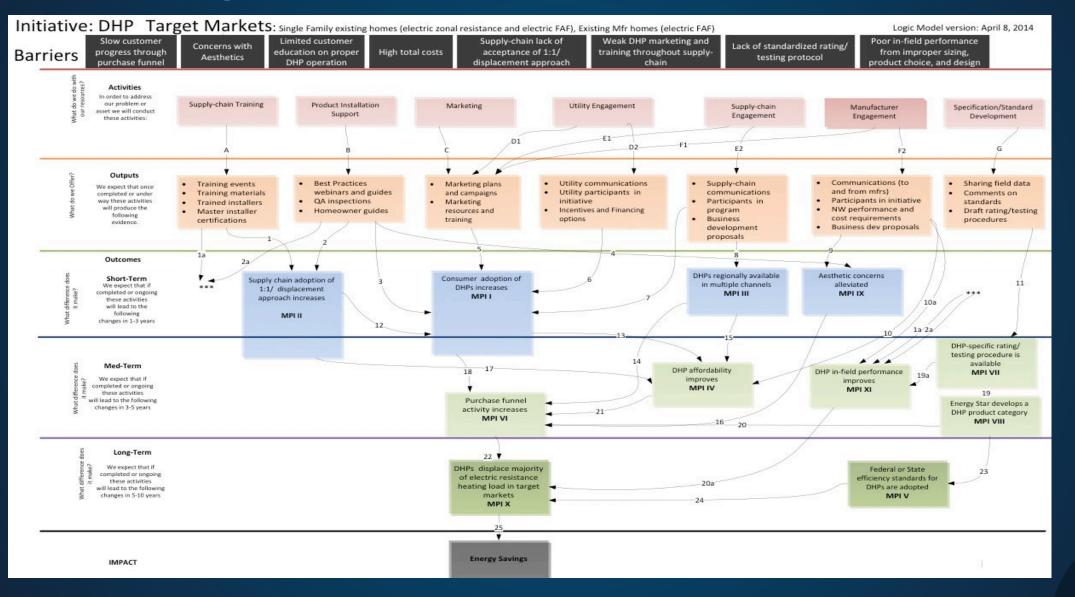


Your Planned Work

Your Intended Results

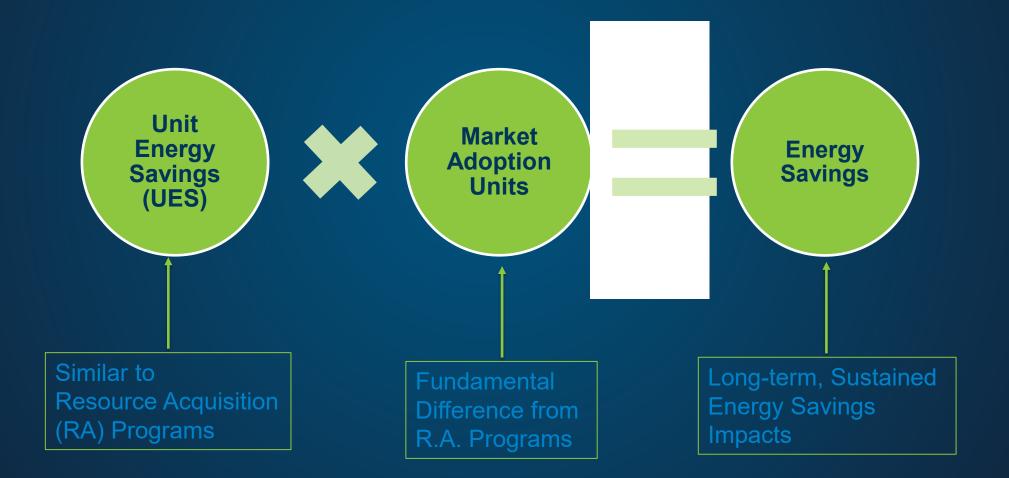


NEEA Logic Model – Ductless Heat Pumps

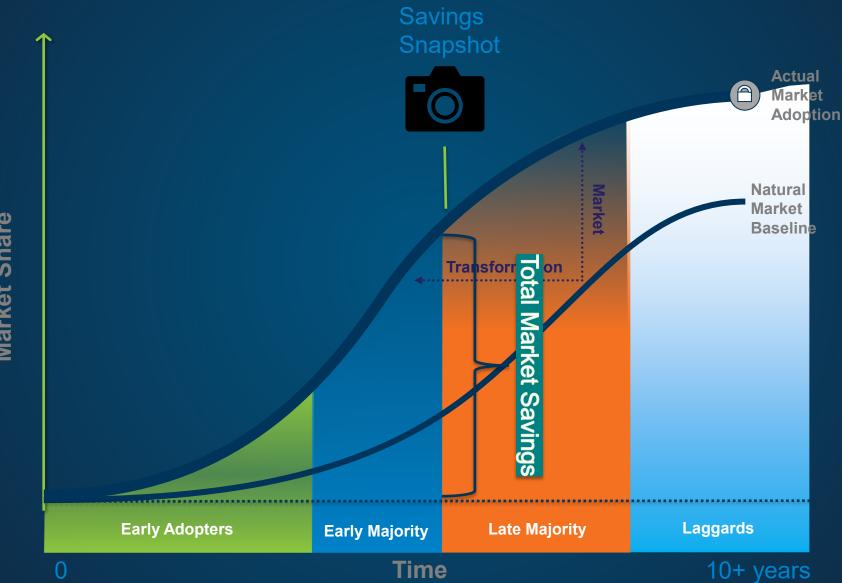


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Energy Savings Simplified: Calculation Components



Total Market Savings



Market Share

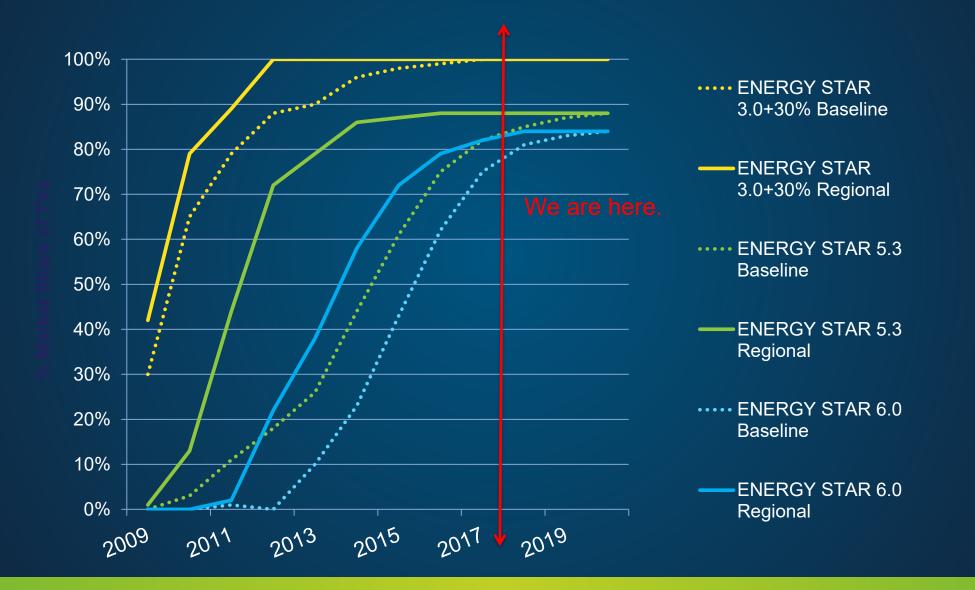
MT Initiative Life Cycle Documentation

Wraps a business plan around the MT Logic Model



» neea

Market Transformation in Action: High-definition televisions; a fast-moving market



, neea

Thank you!

Jeff Harris, Chief Transformation Officer Jharris@neea.org





LUNCH! [Please return by 12:45 Pacific]



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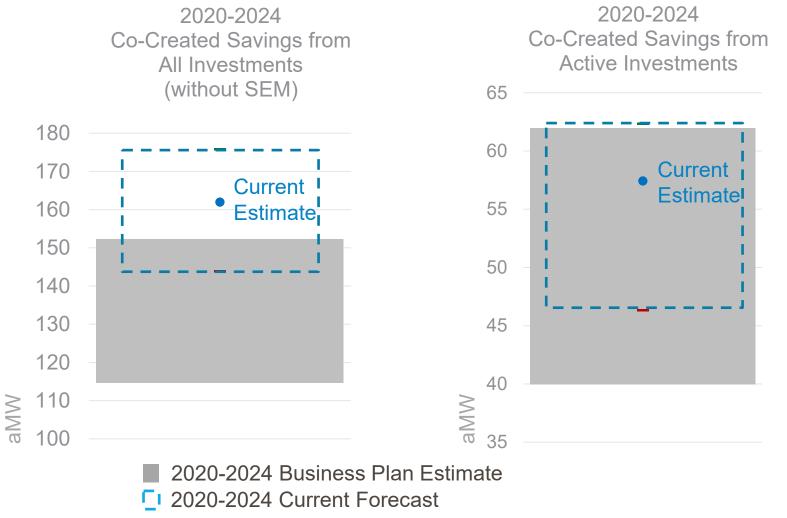
Portfolio Update

Stephanie Rider Director – Data, Planning & Analytics



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Co-Created Energy Savings forecast at/above Business Plan expectations



Stable forecast, relatively unchanged from last year's estimate

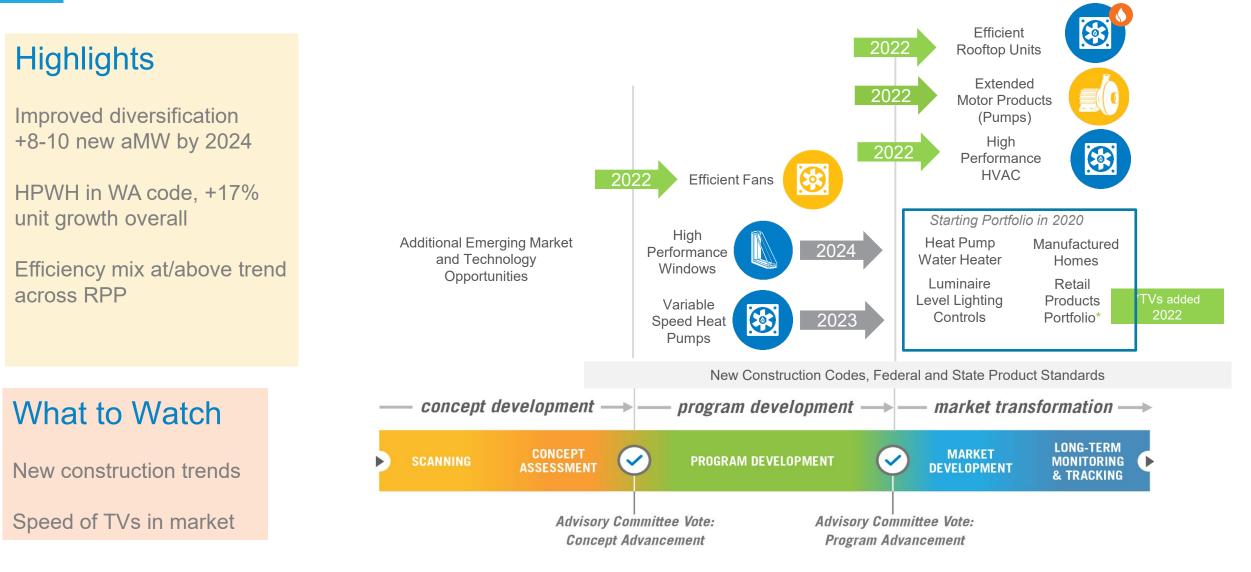
~1m tons of avoided carbon emissions

Efficiency has weathered the macro-conditions well, *so far*

There are still market factors to keep an eye on



Portfolio Summary, 2022



Thank you!

Stephanie Rider, Director – Data, Planning & Analytics SRider@neea.org





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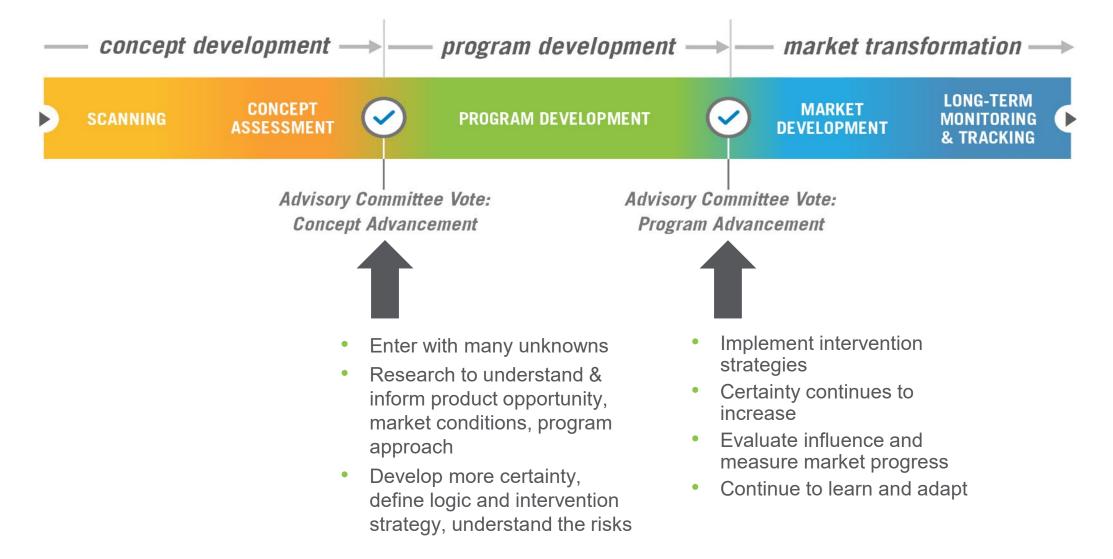
Variable Speed Heat Pumps: Prep for Q3 Milestone Vote

Emily Moore Director – Electric Portfolio

Suzi Asmus Program Manager



Decision Points in Initiative Lifecycle



Preparing for RPAC Vote

<u>RPAC "Launch"</u> <u>Meeting</u>

Program overview, update and discussion

5-6 Weeks from Vote

Milestone documentation delivered to RPAC

Review Period

RPAC members respond with feedback, request for further discussion RPAC Vote Meeting Milestone Vote



 Identify questions or clarifications to address in the preparation of the milestone review

 Consider who from your organization you may want to involve in your review

 Consider how the proposed regional MT program can support or be supported by local programs

What We'll Cover

- 1. Program Development Update
- 2. Market Transformation Theory and Program Approach
- 3. Why NEEA? Why now?



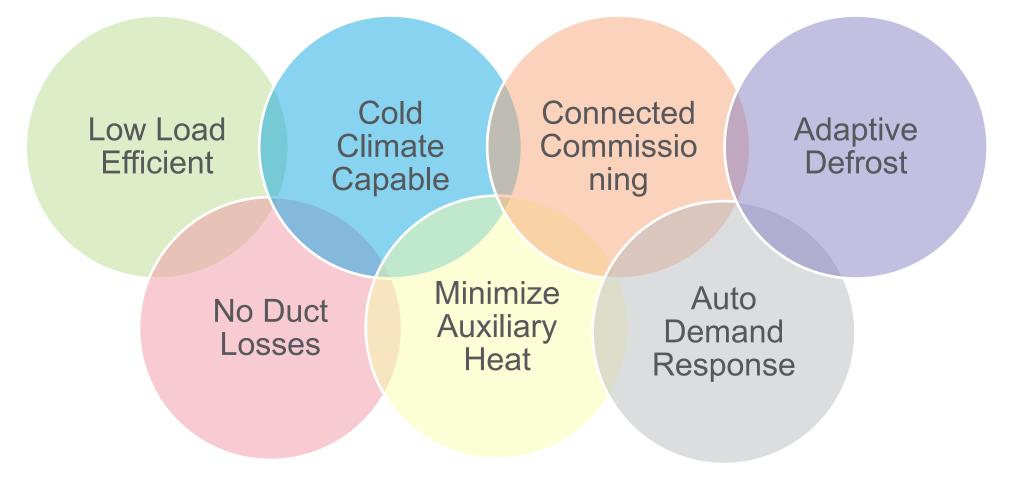
Program Development

Activities	What We Learned
Expand market understanding and inform program interventions	Heat pump adoption is strong and growing
Advance load-based test procedure and spec	Opportunity to better differentiate efficiency among heat pumps
Test intervention concepts and strategies for	Leading manufacturers agree with need for better differentiation
measuring program impact.	> Savings possible with little to no incremental cost

Changes Since Concept Advancement

	Concept Advancement Proposal	Program Advancement Proposal
MT Approach	Grow heat pump adoption	Improve efficiency of all heat pumps
Product Definition	Product- and practices-focused	Improvement-focused (e.g. low load efficient)
	Variable speed only	Two- and three-stage, & variable speed
Target Market	Electric resistance heat replacement	All heat pumps ≤ 65,000 Btuh
Intervention	Identify and disseminate installation best practices	Support existing contractor and customer interventions led by utilities, distributors, and other market partners.





Current Market Transformation Theory and Program Approach

Market Barriers & Opportunities

Barriers

Lack of product differentiation for improvements that impact efficiency and capacity

Lack of awareness of energy efficient improvements and their value propositions

Opportunities

Increasing end user demand, incentives and requirements for IAQ, Decarbonization and Cooling (AC) Many other programs/orgs investing and incenting HPs for efficiency, decarb and capacity

Spec updates enable manufacturers to differentiate more efficient products for competitive advantage Market Transformation Approach

Promote existing, cost-effective improvements in all residential heat pumps

Locking in improvements by influencing specifications and federal standards

Resulting in continuous improvement in the average installed efficiency and increased peak savings

Intervention Approach



Make qualifying products for each improvement identifiable in the market



Build adoption among manufacturers and efficiency program partners



Influence specification and standards bodies to include improvements

Regional Collaboration

NEEA

Engage and influence:

- Manufacturers
- Specification and Standards bodies
- National and bi-national efficiency organizations
- National HVAC and heat pump leaders and subject matter experts

Partner on and share results of field research, pilots, case studies

Support RTF measure development

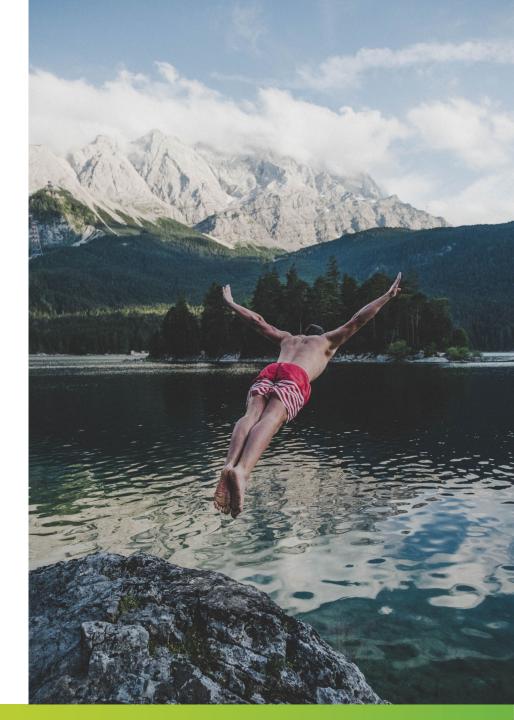
Local Programs

Reference Improvement specifications with

- Program Requirements
- Trade ally training
- Customer education

Why NEEA? Why now?

- Heat pump adoption taking off
- Window of opportunity is...now
- NEEA's unique voice for efficiency



Preparing for the

Program Advancement Milestone in Q3



Preparing for RPAC Vote

Q2 RPAC Meeting

Program overview, update and discussion

5-6 Weeks from Vote

Milestone documentation delivered to RPAC

Mid-July

Review Period

RPAC members respond with feedback, request for further discussion

<u>Q3 RPAC Meeting</u> Milestone Vote

Aug 29th



Questions

Are there any critical questions to address as we prepare for the RPAC milestone review?

→ Please reach out if you have
 questions that would be best
 addressed by a 1:1 with your
 team and NEEA staff

Thank you!

Suzi Asmus, VSHP Program Manager SAsmus@neea.org







Break!



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Manufactured Homes Dpdate

Mark Rehley

Director – Codes, Standards, New Construction, Emerging Tech MRehley@neea.org

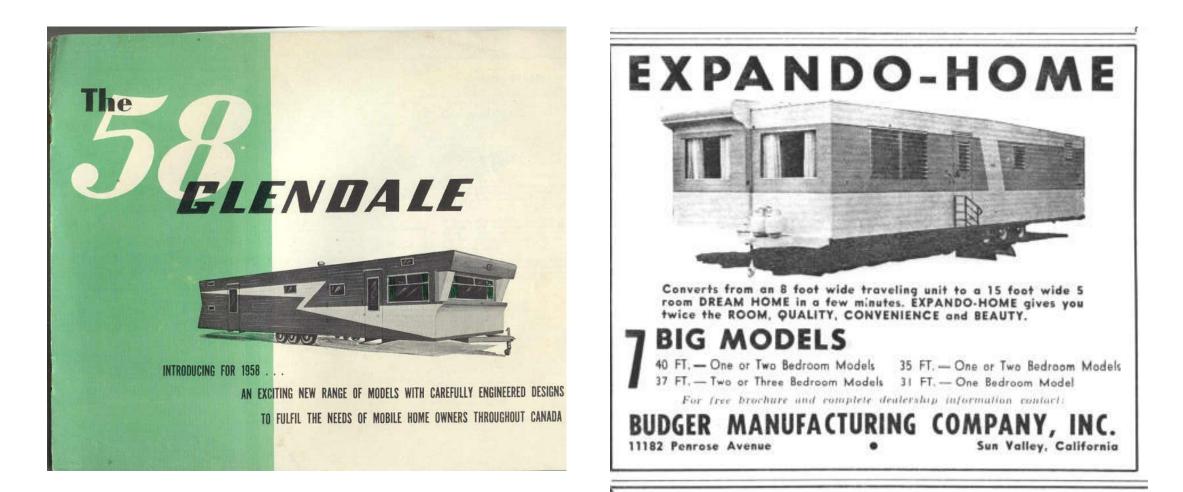


What you need to know: Key Takeaways

- NEEA's Manufactured Homes Program will likely move to the Long-Term Monitoring & Tracking Phase this year or early 2024
- The Northwest Energy Efficiency Manufactured Housing Program (NEEM) is structured to continue to support the market through certification fees
- Utility program opportunities remain
- The Federal standard and HUD code have been updated but delayed
- ENERGY STAR version 3.0 is active but likely to change
- First cost is often driving policy decisions
- NEEA will continue to track due to the market uncertainty







Today's Manufactured Home



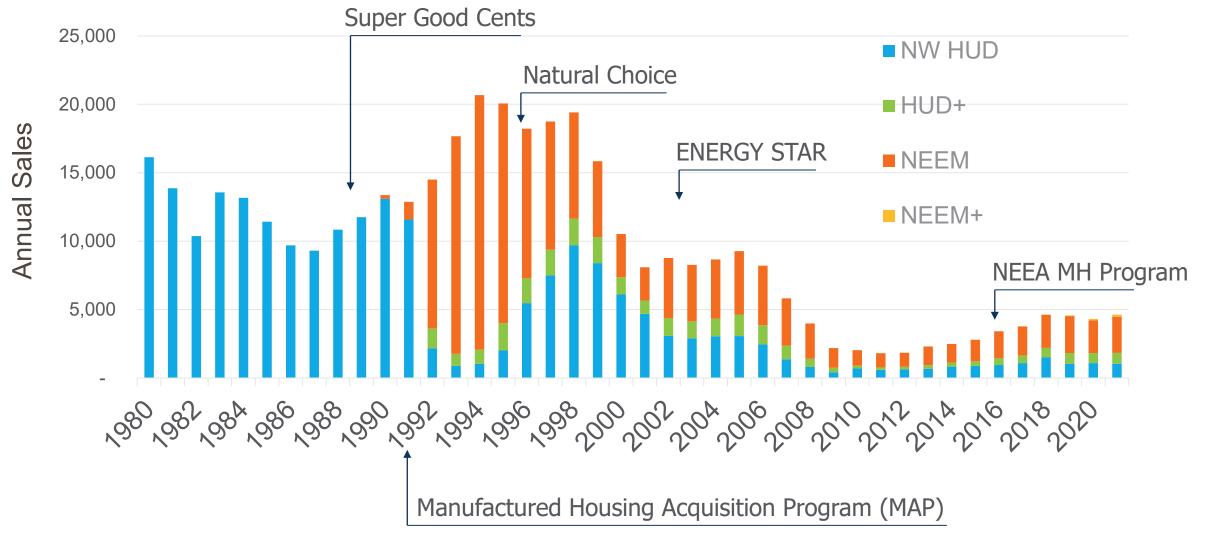
https://www.bobvila.com/articles/8405-mobile-homes-then-and-now/#.WPuld5V1rTs

Today's Manufactured Home



| ©2023 Copyright NEEA. http://mobilehomeliving.org/5-great-manufactured-home-interior-design-tricks/

Manufactured Home Programs and Sales History





W High Performance Demonstration Homes

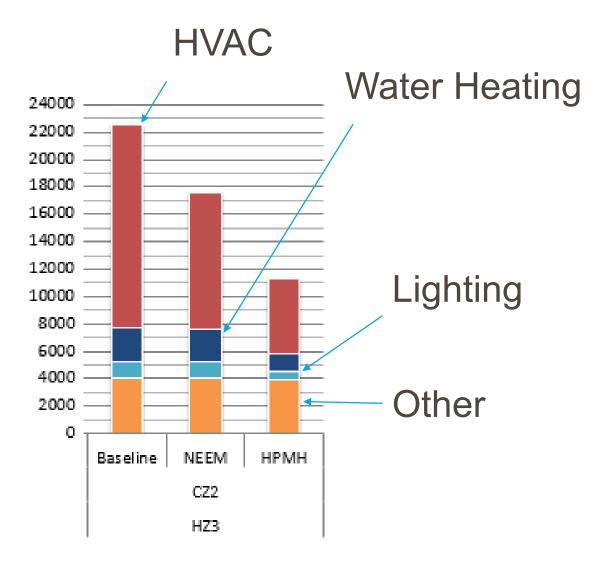


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Energy Use Comparison for Climate Zone 3 (CL3)

Bonneville and NEEA's field study demonstrated the value of high performance manufactured homes (HPMH)

- 50% reduction in energy use from baseline
- Mostly due to envelope and improved heating



Manufactured Homes and Federal Standards

Codes = Buildings





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Standards = Appliances / Equipment

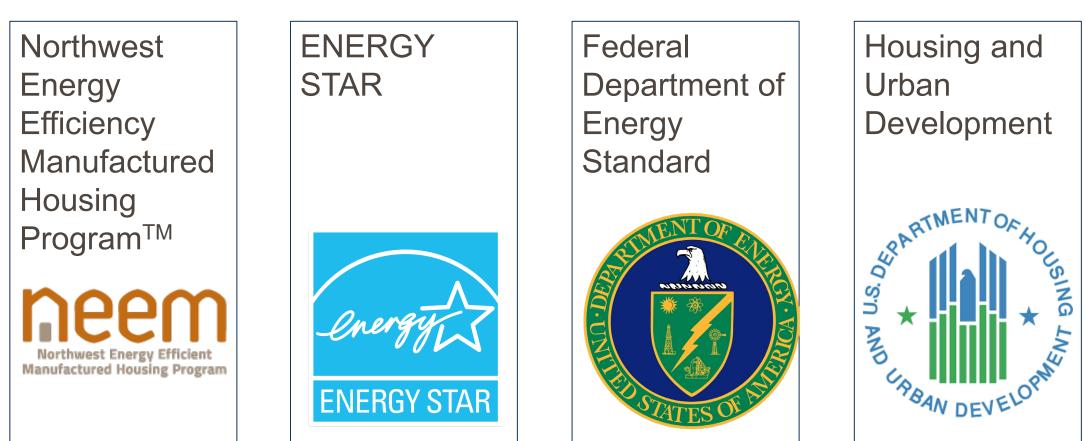




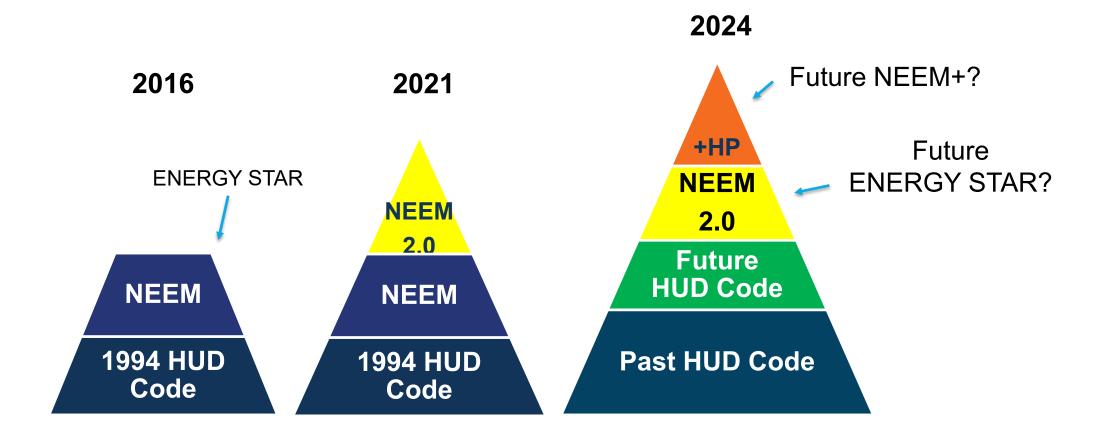
Manufactured Home Requirements

Voluntary

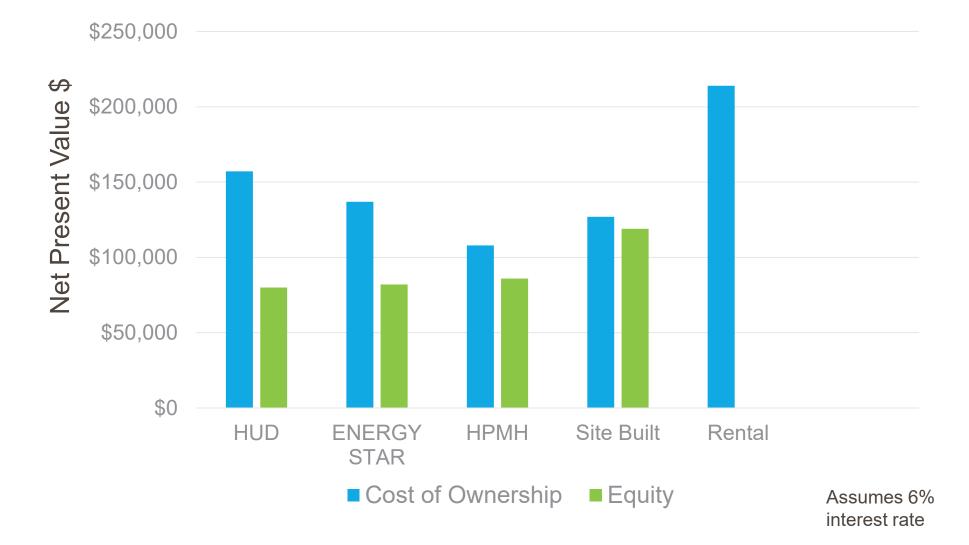
Required



Specifications in the Northwest



Costs of Ownership and Equity



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Status of Federal Standard and HUD Code



DOE Standard

- Announced August 1, 2022
- Effective date May 31, 2023
- Separate standa... for single vide and double and larger homes



HUD Cod

- Anni unced July
 - Effective date May
 - 31, 2023
 - Focused on material strength, structural design, and EE

appliances

DOE 2023 Proposed Standard Comparison (Based on envelope Uo value)

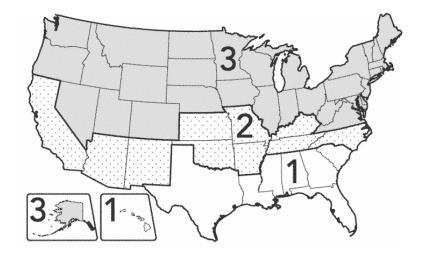
Old				New				
HUD CODE	NW Market Baseline	ENERGYSTAR (NEEM verified)		Code	double+	ENERGYSTAR single wide	ENERGYSTAR double+ wide	
0.079	0.066	0.053	0.050	0.074	0.055	0.057	0.054	
				7%	44%	45%	2%	
				over 1994	over 1994	over 2023 DOE	over 2023 DOE	

- Updated DOE standard is significant for double wide and larger homes
- ENERGY STAR improvements are mostly not envelope measures
- NEEM is so good that standard doesn't greatly impact the Northwest

ENERGY STAR V3.0

- Effective January 1, 2023
- Transition period 1 year
 - Homes can be certified v2 or v3 during this period
- Climate zones The northwest states are CZ3





ENERGY STAR V3.0 – Mandatory Requirements

nvelope, Windows, & Doors			
Insulation and glazing U-factor levels sha	all comply with one of the	following options:	
 Meet or exceed the following perform 	ance levels:		
Climate Zone: 5	CZ 1	CZ 2	CZ 3
Wall Insulation:	R-13	R-21	R-21
Floor Insulation:	R-22	R-22	R-33
Ceiling Insulation:	R-33	R-33	R-38
Door U-factor:	0.40	0.40	0.30
Window U-factor:	0.30	0.30	0.30
 OR achieve an overall coefficient of h 	eat transmission 6 (Uo) t	hat does not exceed:	
Single-section Uo:	0.076	0.065	0.057
Multi-section Uo:	0.070	0.063	0.054
The solar heat gain coefficient of fenestra	ation shall not exceed: 7		
SHGC:	0.25	0.25	N/A

ENERGY STAR V3.0 – Additional Options

Energy Efficiency Macours	Energy Efficiency Messure						
Energy Efficiency Measure		CZ 1	CZ 2	CZ 3	Base		
Mandatory Requirements					requi		
All requirements in Exhibit 1.		7.5	2.5	2.0			
Optional Envelope Improvements	Optional Envelope Improvements						
Coefficient of heat transmission (Uo) ≤ 0.0	49. ⁶	12.0	9.5	4.5	Impro		
Optional Heating and Cooling Equipment	Optional Heating and Cooling Equipment				optior		
Heat pump ≥ 7.5 HSPF2 / 14.3 SEER2. 9			13.5	17.0			
Gas / propane Furnace ≥ 90 AFUE.			2.5	5.5			
Gas / propane Furnace ≥ 95 AFUE.		2.5	3.5	7.5			
Gas / Propane Furnace ≥ 96 AFUE.	as / Propane Furnace ≥ 96 AFUE.		4.0	8.5			
Optional Water Heater Equipment							
Gas / Propane Water Heater ≥ 0.93 UEF.		4.5	3.5	0.5	10 p		
Heat pump water heater ≥ 2.20 UEF.	With electric furnace, electric strip, or electric baseboard	6.0	5.5	1.5			
Heat pump water heater ≥ 3.30 UEF.	JEF. primary space heating.	7.5	7.0	1.5	nee		
Heat pump water heater ≥ 2.20 UEF.	With all other primary space heating systems.	9.0	10.0	7.5			
Heat pump water heater ≥ 3.30 UEF.	with all other primary space neating systems.	11.5	13.0	9.0	mee		
Optional Lighting, Appliances, & Water Fixto	Optional Lighting, Appliances, & Water Fixtures						
LED lighting installed in all permanently in	ED lighting installed in all permanently installed fixtures. ¹⁰ athroom faucets \leq 1.5 gallons per minute (gpm) and showerheads \leq 2.0 gpm.		0.5	0.5			
Bathroom faucets ≤ 1.5 gallons per minute			0.5	0.5			
ENERGY STAR certified refrigerator and	dishwasher. 11	0.5	0.5	0.5			
Copyri ENERGY STAR certified clothes washer.	11	0.5	0.5	0.5			

requirements

Improvement options

10 points needed to meet v3.0

Low Income Housing Policy Trends

- 1. First cost concerns are causing questions about energy codes
- 2. State goals for residential new construction volume driving questions about simplification of construction



Regional Technical Forum – Measures & Sunset Dates

- New Manufactured Homes and HVAC May 31, 2023
- Manufactured Home Weatherization May 31, 2023
- Air Source Heat Pump Upgrades and Conversions MH Dec 31, 2023
- Ductless Heat Pump for Forced Air Furnace SF and MH Sep 30, 2024
- Ductless Heat Pumps for Zonal Heat MH Oct 31, 2024
- Residential Heat Pump Water Heaters Dec 31, 2024
- MH Duct Sealing Dec 31, 2024
- Manufactured Home Replacement May 31, 2027

Utility program options remain but likely to change.



NEEA's Manufactured Home Program Activities

- Transition MPER
- Updated modeled savings
- Transition memo Q4 2023





Market Activities for 2023

- ENERGY STAR engagement to add points for certification
- Analysis support for NEEMs update to V3.0 of ENERGY STAR
- DOE engagement to encourage final rule
- Heat pump ready project with manufacturers



Northwest Energy Efficient Manufactured Housing Program





Thank you!

Mark Rehley, Director – Codes, Standards, New Construction, Emerging Tech MRehley@neea.org





Let's wrap it up!

Action Items | Any Final Qs?

- Action Items
 - VSHP: Let Alisyn know
 ASAP if you/your team
 would like a 1:1 to discuss
 the upcoming vote

Action Items



Market Transformation Refresher

 A brief review of market transformation basics and a chance to discuss topics for future RPAC sessions if desired.

Jeff Harris

Stephanie Rider

>

<u>Desired Outcome</u>: Increased understanding of the fundamentals of market transformation.

Portfolio Update

• Review portfolio reforecast, highlights and composition.

<u>Desired Outcome</u>: Committee informed on portfolio status and priorities.

Variable Speed Heat Pumps

- MT Program Overview
- Prep for planned Program Advancement milestone (Q3)

Emily Moore Suzi Asmus

Mark Rehlev

<u>Desired Outcome</u>: Committee updated on program development and primed on upcoming program milestone, and any initial questions/concerns identified.

Manufactured Homes Update

- Background on NEEA's Manufactured Home program
- Update on Federal standard, HUD code, and <u>low income</u> housing goals
- Review changes to ENERGY STAR specification
- Share status of manufactured home construction in region
- Discuss impact on regional <u>programs</u>

<u>Desired Outcome</u>: Committee updated on regulatory and market changes and planned next steps for NEEA's program.

Meeting Feedback [Poll]



Please select all that apply

- ✓ *Market Transformation Review* was helpful
- ✓ Market Transformation Review left me with more questions
- ✓ Portfolio Update was helpful
- ✓ *Portfolio Update* left me with more questions
- ✓ VSHP Vote Prep was helpful
- ✓ *VSHP Vote Prep* left me with more questions
- ✓ Manufactured Homes Update was helpful
- ✓ Manufactured Homes Update left me with more questions
- ✓ Please contact me

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Public Comment?

Thank you, RPAC!

Q3 Meeting (virtual):

August 29, 2023





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