Non-Gas Pipeline Alternative Working Group

Working Group Meeting #4

January 15, 2025







Agenda

Time	Topic
10-10:10	Welcome + agenda
10:10-10:40	Community Focus Group Update – Marti Frank
10:40-11:10	Affordability Presentation + Discussion – Jenifer Bosco
11:10 – 11:45	Intro to Framework Presentation
11:45-12:30	Lunch
12:30-2:45	Framework Presentation + Discussion
2:45-3	Next Steps



Community Focus Group Update - Marti Frank

Community Engagement Progress Update

NPA Working Group January 15, 2025



EJ Input to the Framework

Benefit-cost analysis

- + Benefits
- + Costs

Implementation

- + Financial and technical supports
- + Messages, messengers
- +Timeline

Engagement Design

Stakeholder	Building type	Engagement Activity	Research questions		
EJ homeowners	Single family	Expert Zoom Group	How could you benefit		
EJ renters	Single family	In-home Interviews	from electrification? What are the risks of		
	Multifamily	Parent Intercepts			
Rental property managers	Singe family Multifamily	In-home Interviews	electrification? What would it take for		
		Phone/Zoom Interviews	you to electrify?		
Pontal property	IMILITITAMIN		How can utilities work		
Rental property developers		Phone/Zoom Interviews	with you to build all- electric?		
developers					

Expert Zoom Group Advisory Panel for EJ engagement

Who

Nine service providers and volunteers with first-hand understanding of EJ households' needs and risks

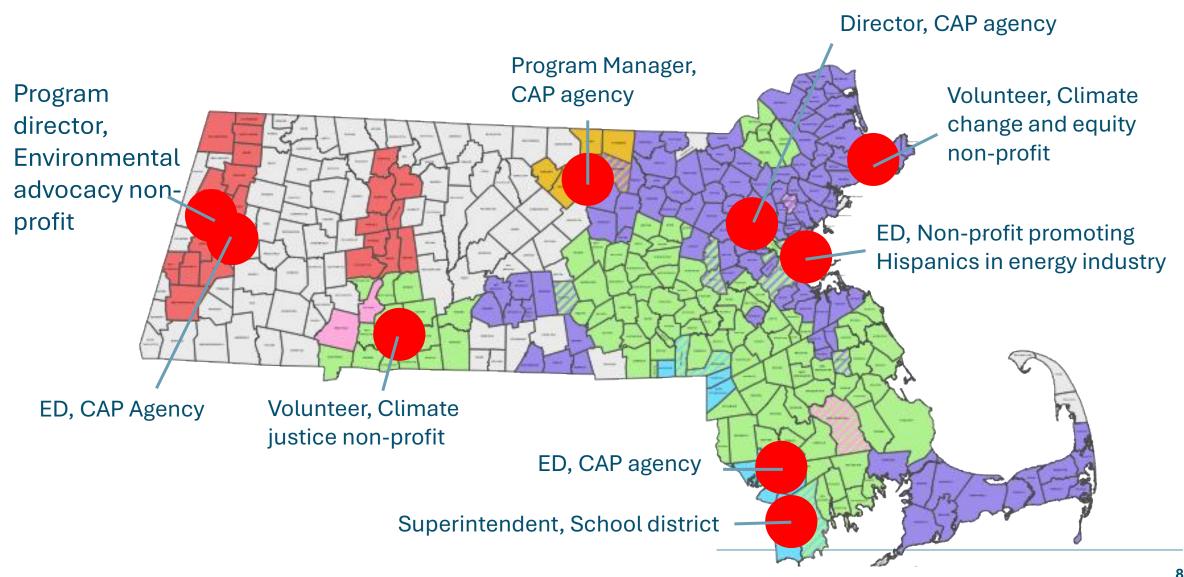
Why

Advise on design of community engagement, interpretation of data, development of findings and recommendations

When

Three Zoom meetings in December, January, February

Expert Zoom Group Member Locations and Affiliations



What do we know about how electrification may impact EJ households?

What don't we know?

Dec 5th

Ride-alongs Door knocking Interviews

Jan 23rd

Mid-Feb

Dec 5th Pide-alongs Door knocking Interviews Jan 23rd Mid-Feb

Help interpret data and develop findings

Dec 5th Door knocking Interviews Jan 23rd Mid-Feb

What did we learn from engagement with EJ members?

What hypotheses does it confirm?

What new information does it provide?



What is our current best thinking about how electrification of EJ households can be done such that it maximizes their benefits and minimizes burdens?

Dec 5th

Ride-alongs
Door knocking
Interviews

Nan 23rd

Mid-Feb

Expert Zoom Group Example Output from 1st Meeting



What are the benefits of electrification for environmental justice households?

Word cloud created by Expert Zoom Group, December 5, 2024

In-home Interviews EJ Household Opinions on Electrification

Who

13 EJ households in four LDC territories

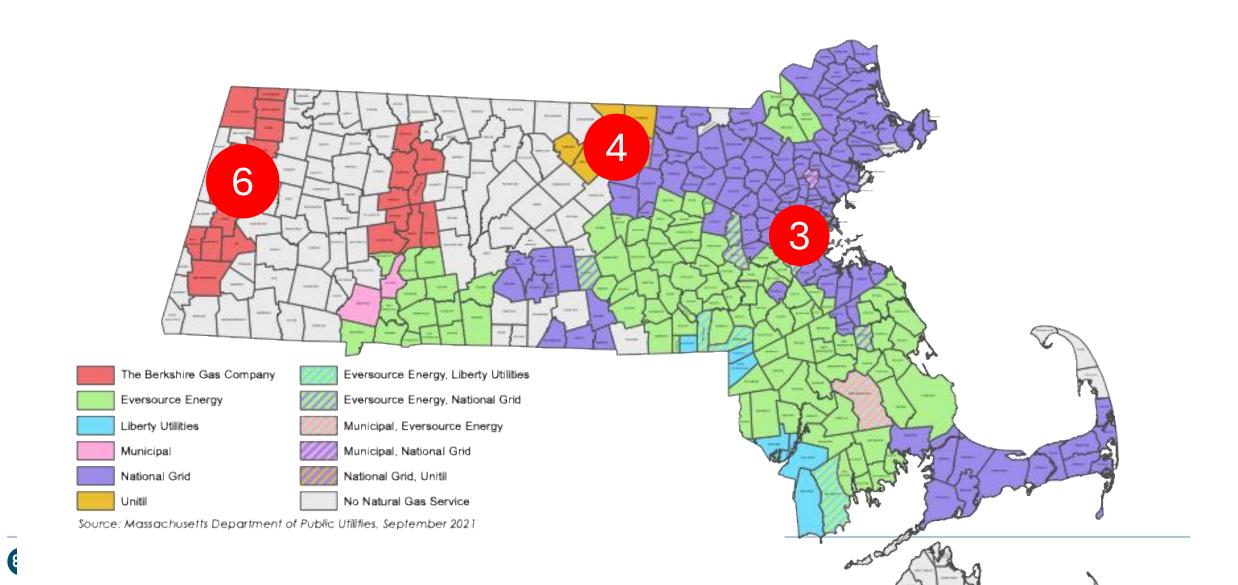
Why

In-depth opinion on value of electrification benefits, attitude towards increased utility costs, understanding of electric heat technologies, aspects of an offer to electrify they find compelling, willingness to accept an electrification offer, feedback on sample electrification brochure

When

10- to 40-minute interviews conducted in the residents' homes, completed January 7-9

In-home Interviews EJ Household Locations



In-home Interviews **EJ Household Demographics**

First name	Own/rent	Age	Ethnicity	Home type	Htg. fuel	
Alex	Owner	25	Unknown	Duplex	Gas	
Alex	Owner	65	Haitian	Single family	Gas	
Clara	Renter	80	White	Triplex	Gas	
Gayle	Owner	60	White	Single family	Gas	
Germaine	Renter	25	Unknown	Single family	Gas	
Jody and Dot	Owners	65 and 91	White	Single family	Oil	
Kevin	Renter	65	White	Duplex	Gas	
Marisella	Owner	35	Hispanic	Single Family	Oil	
Martha	Renter	65	Mexican	Duplex	Gas	
Mary	Owner	90	White	Single family	Gas	
Odelquis	Owner	50	Unknown	Single family	Gas	
Tom	Owner	55	White	Mixed use	Gas	
Willy	Renter 65 Af. American Duplex		Duplex	Gas		

In-home Interviews Example EJ Household Profiles



Stock photo

Tom, 50

Inherited mixed-use building from grandparents. Operates barber shop on main floor. Rents three apartments above.

First response when asked whether he would electrify: "I hope not. That would be expensive."

However . . . He previously investigated converting rental units to DHPs to shift utility cost to renters. Updated knob & tube wiring and applied for but never received Mass Save incentive. Didn't complete because couldn't get tech questions answered or find a contractor.

In-home Interviews Example EJ Household Profiles



Stock photo

Willy, 65

Lives alone. Retired from a career as a cook in the Navy and in hospitals. Has rented the main floor of a duplex for 10 years.

Forced hot water heat with a new boiler provided last year by CAP agency. Not opposed to electric heat but wants to keep his gas stove. Has solar.

When he gets a high bill: "I have to pay it. Take from Peter to pay Paul. One bill has to wait. Wait on cell, cable, life insurance."

In-home Interviews Example EJ Household Profiles



Stock photo

Marisella, 35

Lives with three children ages 17, 3, 1. First time homeowner, moved in one month prior. Works at an insurance company.

Forced hot water with oil boiler that had failed. Chose to replace oil boiler. Familiar with DHPs from office but concerned about the cost of electric heat: "Electric is high. Everyone is complaining. Is there going to be a reduction in cost? As long as the cost would even out I'd be OK with it. If I'm going to be paying more then no. I don't know what I got myself into with a house."

Parent Intercepts EJ Household Opinions on Electrification

Who

Elementary school parents in Westport

Why

High-level feedback on value of electrification benefits, attitude towards increased utility costs, understanding of electric heat technologies, willingness to accept an electrification offer

When

Brief surveys to be conducted at school during parent-teach conferences, February 11

Zoom Interviews Property Owner/Manager Opinions

Who Seven owners and managers of affordable rental properties*

*Twelve informants still being contacted, one scheduled

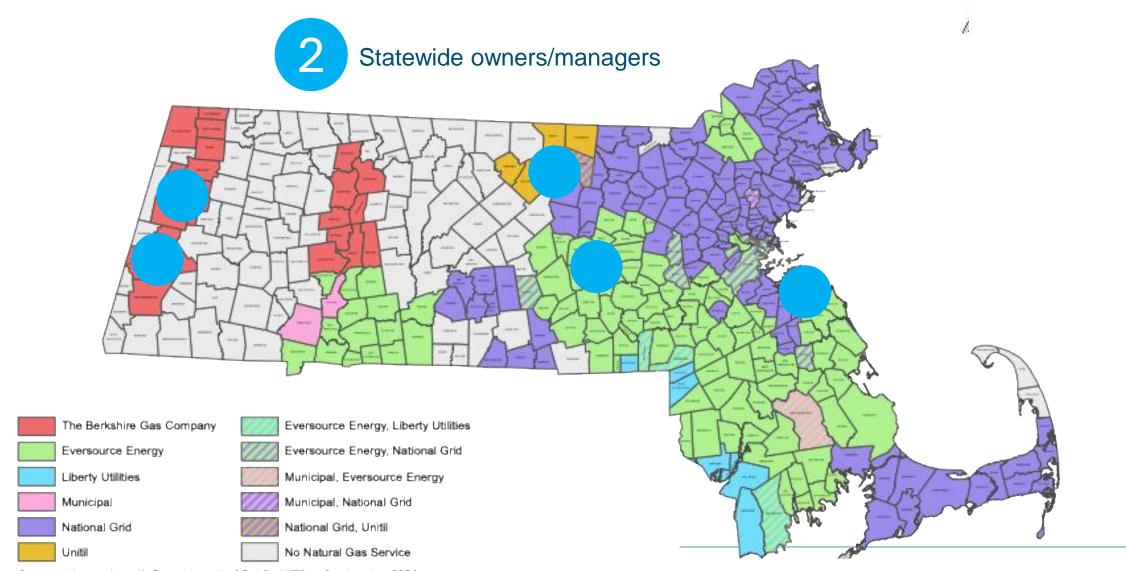
Why

Detailed input on facilitating factors for and barriers to electrification in existing properties, appropriate points of contact and timeframe to discuss developing new all-electric properties

When

30-minute Zoom interviews, completed November 13 – January 10

Zoom Interviews Property Owner/Manager Firmographics



Zoom Interviews Property Owner/Manager Firmographics

Region	Title	Organization Type	Number of properties	Number of units
Statewide	Energy and Sustainability Manager	Private developer of affordable, mixed income, and market-rate multifamily properties	76	9,800
Statewide	Asset Manager	Religiously-affiliated non-profit developer of affordable multifamily properties for families, the elderly, and people with special needs	24	3,000
Berkshire	Director of Real Estate Operations	Non-profit developer of affordable housing	80	868
Berkshire	Owner and Manager	Owner of naturally occurring affordable housing	11	23
Hingham	Community Manager	Manager of regulated affordable housing	1	220 (55 affordable)
Hudson	Property Manager	Mgr. of naturally occurring affordable housing	1	76
Fitchburg	Owner and Manager	Owner of naturally occurring affordable housing	1	3

A few emerging themes

Cost is key

EJ owners and renters can tolerate little, if any, increase in costs, especially utility costs

Electrification benefits are marginal

EJ owners and renters may appreciate better AC and air quality, but it is not something most would be willing to pay more for

Electric heat is acceptable to most

Some awareness of heat pump technology (less for geothermal) and only minor concerns about it

Trust utility but need confirmation from friends/family

Positive word-of-mouth will be critical for gaining trust and getting the go-ahead to electrify

Step 1: Create NPA typology to identify key decision-makers

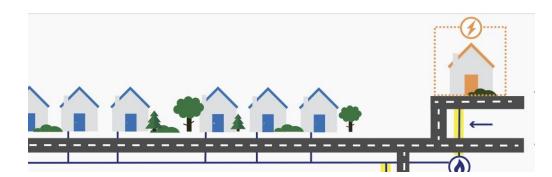
Homeowners

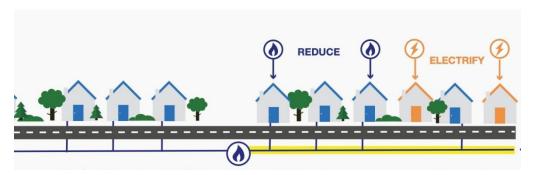
Rental property owners

Renters

Type #1
Avoid replacing pipes
Electrify whole homes

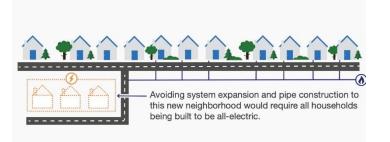
Type #1b
Avoid capacity increase
Electrify + gas efficiency





Property developers

Type #2
Avoid system expansion
Build all-electric







Affordability Discussion – Jenifer Bosco

NPA Working Group – Utility Affordability



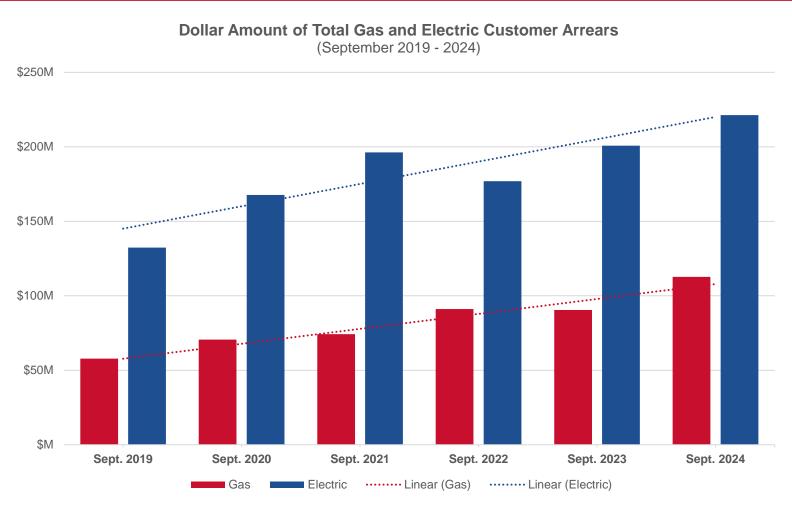
Jenifer Bosco, Senior Attorney jbosco@nclc.org January 15, 2025

Massachusetts energy affordability

- Over 500,000 electric and gas low-income or R-2 accounts, actual number of households is much smaller since most have both electric and gas accounts
- HEAP (fuel assistance) = 149,778 households served in FY2024
 - Source: Mass. EOHLC, HEAP Weekly Summary, Jan. 6, 2024
 - Many other low-income households not eligible due to federal program rules
- Unpaid utility bills are one of the most common sources of household debt
 - See, e.g., Board of Governors of the Federal Reserve, Report on the Economic Well-Being of U.S. Households in 2023 - May 2024; Center for Survivor Agency & Justice, Domestic Violence and Economic Well-being Study, Service Provider Report, April 2021 (nationally, 54% of DV survivors surveyed reported utility debt)



R-2 customers' utility debt has risen to \$333,993,571



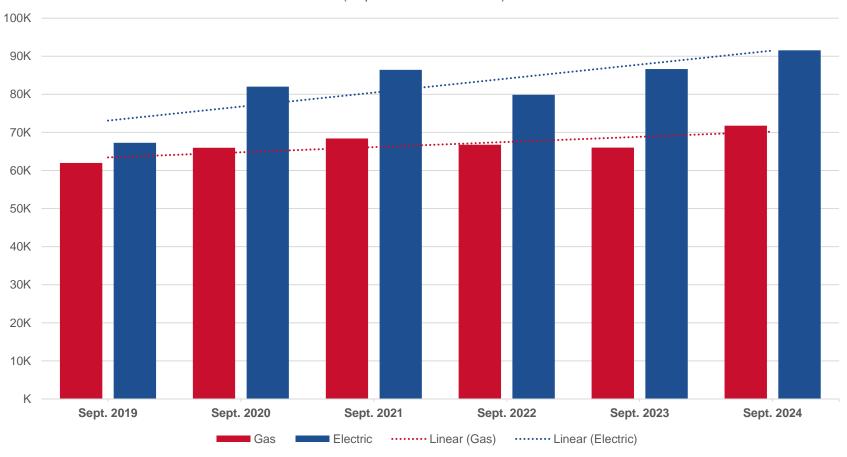
Source: NCLC analysis of data filed by utility companies in D.P.U. 20-58



R-2 customers with utility debt 90+ days increased

Number of Gas and Electric Customers 90+ Days in Arrears

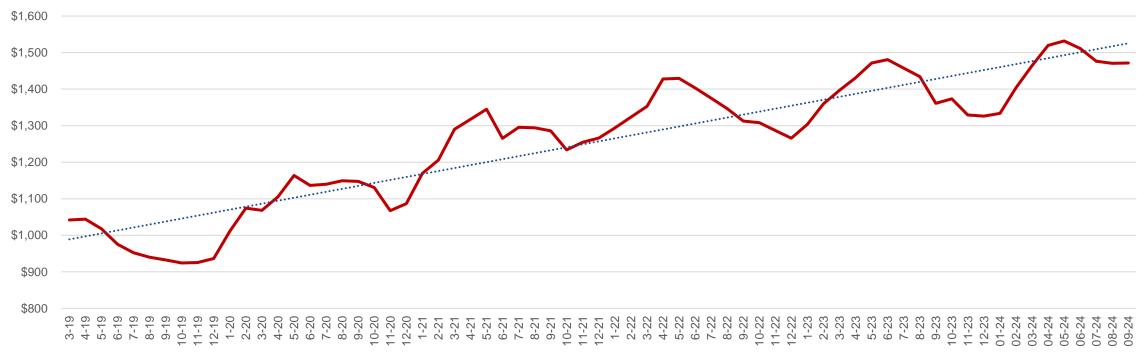
(September 2019 - 2024)





Average R-2 utility debt = \$1,471 per account







Affordability concerns and strategies

- Low-income consumers current affordability crisis, even before the gas transition is fully underway
- Multiple Massachusetts efforts seek to address affordability concerns, e.g., DPU 24-15, IRWG, 3year Energy Efficiency Plan
- Priorities to improve affordability:
 - Improvement of R-2 discount rates underway in DPU 24-15, tiered discount adopted in DPU 23-150
 - Better protections from utility disconnection also underway in DPU 24-15
 - Continued and expanded support for zero-cost electrification and efficiency for low-income households
 - Sources of funding other than additional ratepayer funds
 - Avoid adding further debt to the already heavy debt burden of low-income families
 - Re-examine and unwind failed programs that increase ratepayer costs without providing benefits to customers



Affordability and Energy Burden

- Energy Burden: Percent of monthly income dedicated to electric and heating bills
- Monthly energy burden targets
 - 6% frequently used but now too high considering increased housing costs
 - New National Grid electric tiered discount uses 3.4% target for electricity only
 - NJ: 2% for electric, 2% for gas, or 4% for all-electric customers
 - NV: target burden is the same as burden for average median income household



Comparison of Gas and Electric R-2 Customers in September (2019-2024) [Source: D.P.U. 20-58]

		Sep-24	Sep-23	Sep-22	Sep-21	Sep-20	Sep-19
G A S	Number of customers	203,472	197,734	186,551	172,501	157,224	146,484
	Number of customers in arrears	85,946	78,700	76,677	86,270	86,845	84,744
	Dollar amount of customer arrears*	\$112,664,892	\$90,458,451	\$91,046,237	\$74,246,827	\$70,607,15 2	\$57,739,66 6
	Number of customers 90+ days in arrears*	71,770	66,016	66,750	68,392	65,977	61,985
	Dollar amount of customer arrears 90+ days late*	\$107,166,141	\$84,760,717	\$84,599,709	\$68,926,807	\$66,846,57 8	\$53,941,63 3
	Average amount owed per customer 90+ days late	\$1,493	\$1,284	\$1,267	\$1,008	\$1,013	\$870
	Number of disconnections	670	774	546	654	Moratorium	1,377
	Number of customers	315,777	317,025	295,688	280,783	272,008	256,247
	Number of customers in arrears	141,030	135,217	127,481	124,154	120,837	119,086
E L E	Dollar amount of customer arrears*	\$221,328,679	\$200,761,137	\$176,936,018	\$196,297,957	\$ 167,726,11 1	\$ 132,325,27 6
C	Number of customers 90+ days in arrears*	91,543	86,639	79,869	86,448	82,022	67,256
T R I C	Dollar amount of customer arrears 90+ days late*	\$180,812,884	\$167,885,848	\$147,540,975	\$172,280,149	\$ 142,980,59 4	\$ 111,566,90 4
	Average amount owed per customer 90+ days late*	\$1,975	\$1,938	\$1,847	\$1,993	\$1,743	\$1,659
	Customer disconnections	1,622	1,200	393	494	Moratorium	1,900
	* Highest value within the reporting period occurred in 2024.						



LDC's NPA Framework Presentation





Next Steps

Working Group Feedback Approach

Layers of WG Feedback and Reporting

Report: WG Findings Chapter

Report Executive

Summary

Matrix of Summarized Feedback

(Attachment)

Raw WG Comments (Attachment)

- It's important to us that we accurately capture and summarize your feedback
- + We have an extremely tight timeline from receiving your comments (Jan 29) to Feb 5th meeting and reporting deadlines
- + We can be most effective if you can help us categorize and summarize your key points
- Therefore, we created a Word document template

Next Steps

Next meeting will February 5th

10:00 AM-3:00 PM at 75 State Street

Expected topics for next meeting

- Discussion of stakeholder feedback discussion on the elements to inform the next iteration of the NPA framework
 - LDCs to provide written report version of framework by Jan 22
 - Stakeholders to provide written feedback by Jan 29

Technical Subcommittee

• Technical Subcommittee Jan 22nd – let us know if any questions

+ Materials

 All of today's materials will be posted to the working group website (https://npaworkinggroup.com/)

Feedback from Today?

- Email us at:

npaworkinggroup@apexanalyticsllc.com
(We will assume internal/informal
feedback; specify if you prefer public
posting)

- Formal, Public Comment:
Submit written comments on
https://npaworkinggroup.com/ through
contact us at bottom of page