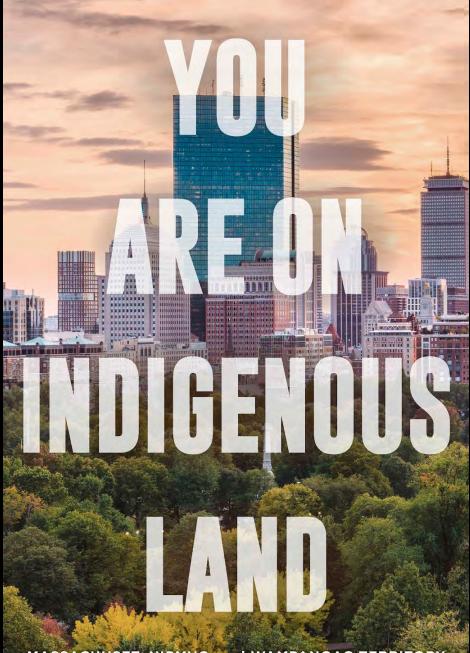
BUILDINGENERGY BOSTON

Expanding Access to Clean Energy in Affordable Housing

August 14, 2020 · 9:15 am

Presenters:

Mary Wambui (Planning Office of Urban Affairs), Gabe Shapiro (All In Energy), & Emily Jones (LISC Boston)



MASSACHUSET, NIPMUC, and WAMPANOAG TERRITORY DAWNLAND.ORG | @DAWNLANDMOVIE Visit <u>https://native-land.ca/</u> to find out whose land you are on.

Mapping Inequality Redlining in New Deal America



5. Clarifying Remarks

Negro heavily concentrated north of Ruggles St. on the west side of Washington. Jewish centered near Columbus Square. A large territory with some streets showing better experiences than the balance of the section.

2. Inhabitants

<u>e. Infiltration of</u> foreign – negro <u>c. Foreign-born families</u> 50%%; mixturepredominating

d. Negro yes%; 25%predominating

<u>f. Relief families</u> heavy

a. Occupation clerks - labor - relief

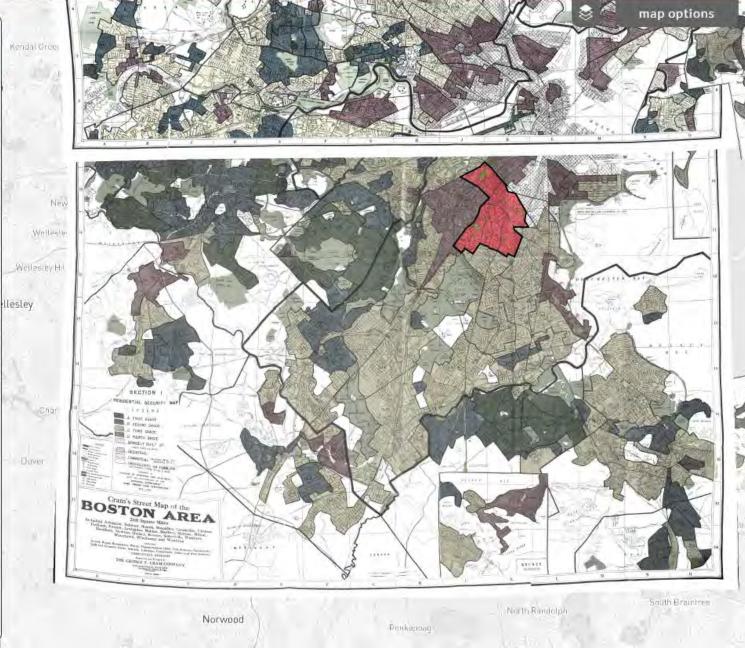
b. Estimated Annual Family Income \$600-\$1,500

1. Area Characteristics

a. Description of Terrain level to hilly

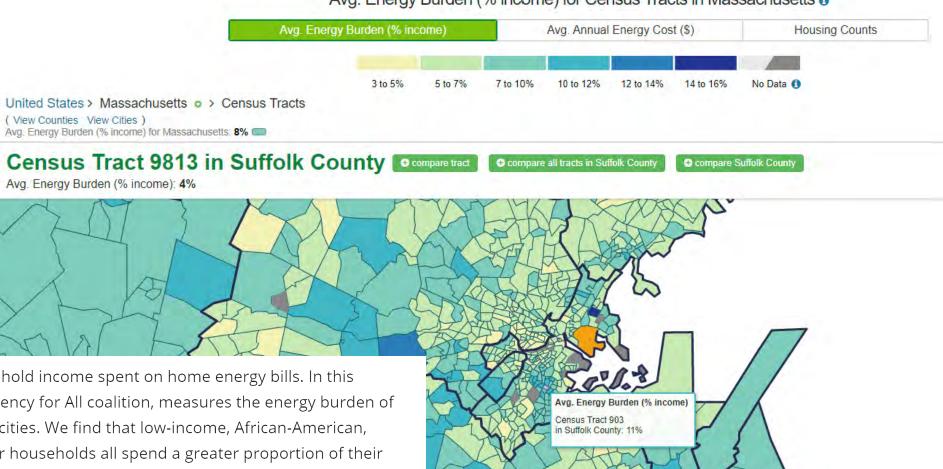
<u>b. Favorable Influences</u> good transportation, schools, etc. close to central Boston employment area

c. Detrimental Influences congested. Heavy traffic. Large



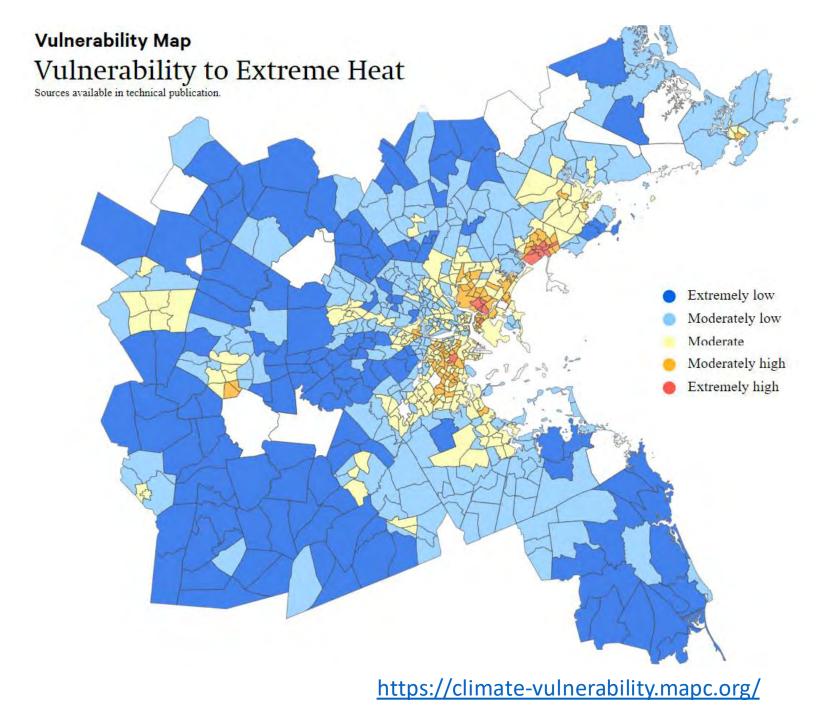
Low-Income Energy Affordability Data (LEAD) Tool

Avg. Energy Burden (% income) for Census Tracts in Massachusetts ()



American Council for an Energy-Efficient Economy

Energy burden is the percentage of household income spent on home energy bills. In this report, ACEEE, along with the Energy Efficiency for All coalition, measures the energy burden of households in 48 of the largest American cities. We find that low-income, African-American, Latino, low-income multifamily, and renter households all spend a greater proportion of their income on utilities than the average family. We also identify energy efficiency as an underutilized strategy that can help reduce high energy burdens by as much as 30%. Given this potential, we describe policies and programs to ramp up energy efficiency investments in low-income and underserved communities.



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MILAGRO HERNANDEZ (Energy Customer Profile)

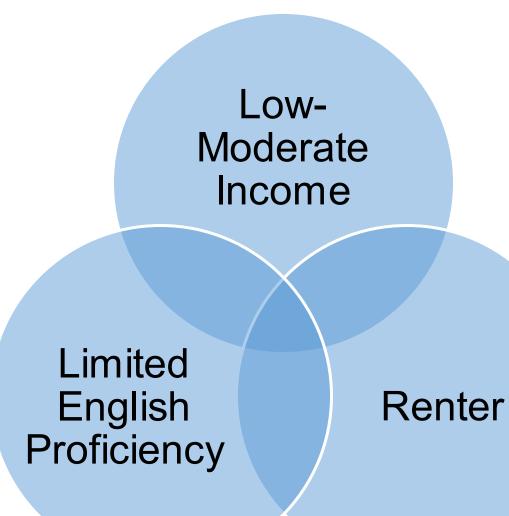
She is 38 years old

- A single mom with four young children
- She speaks primarily Spanish
- She lives in Lawrence
- She is a renter in non -subsidized housing- 3 story building with 30 units
- She earns 65K a year
- She pays for all her utilities
- She has never benefited from MassSave though she pays into the system
- Her landlord has not made any energy improvements in the building

Planning Office for Urban Affairs

ARCHDIOCESE OF BOSTON





Milagro fits the customer profile of the type of resident that the nonparticipant study revealed needs an increase in services and participation in the MassSave program.

An example of inequalities in implementation of the Columbia Gas program after the gas explosions

Home Energy Assessments and Weatherization Non-Low Income through October 2019

			Market Rate	Participation Rate	Participation Rate (jobs
	Home Energy	Jobs	Heating	(jobs completed as	completed as % of
Town	Assessments	Completed	Accounts	% of HEAs)	customers)
Andover	1,205	997	7,629	87%	13%
North Andover	915	608	5,269	66%	12%
Lawrence	926	480	12,271	51%	4%

Share of Town/Neighborhood Population (%)

Town /			Median	(Born Outside of United	Speaks English "Less Than	White, non-	Black, non-			American and Alaska	Other race /
Neighborhood	Electric Utility	Gas Utility	Income	Renters	_	Very Well"	hispanic		Hispanic	Asian	Native e	-
Andover	National Grid	Columbia, National Grid	\$134,627	20%	16%	5%	79%	2%	3%	13%	0%	3%
North Andover	National Grid	Columbia, National Grid	\$102,008	27%	12%	4%	84%	2%	6%	6%	0%	2%
Lawrence	National Grid	Columbia	\$36,754	72%	39%	37%	17%	3%	77%	3%	0%	1%

NAACP's Environmental and Climate Justice Program objectives

- 1) reduce harmful emissions, particularly greenhouse gases-... includes a focus on corporate responsibility and accountability.
- 2) Advance energy efficiency and clean energy -...to ensure that communities of color are accessing revenue generation opportunities in the new energy economy, while providing safer, more sustainable mechanisms for managing energy needs for our communities and beyond.
- 3) Improve community resilience: Ensures that communities are equipped to engage in climate action planning that integrates policies and practices on advancing food justice, advocating for transportation equity and upholding civil and human rights in emergency management.

Solutions | What you can do | What am I working on

- Acknowledge that structural racism is part and parcel of the foundation of clean energy programs
- Participate in State Energy Policy /Attend public meetings that have to do with Clean Energy in the State.
 (public listening sessions for the next energy efficiency plan)
- Market the MassSave and other clean energy programs to others across the commonwealth

- Work-force development- Set goals that increase equitable access to employment and training for residents, people of color and women in clean energy sector
- Personally, I am serving as a councilor at the EEAC and am a co-chair of the equity working group my email is <u>mary@poua.org</u> and I welcome suggestions that will expand access of clean energy in affordable housing.

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Gabe Shapiro, All In Energy



Gabe Shapiro



Co-Founder & Co-Executive Director



Accelerate an inclusive clean energy economy



All In Energy works at the nexus of two challenges

Massachusetts has nationleading energy incentive

programs

BUT

Renters, non-English speakers and moderate income families are underserved Massachusetts' clean energy economy is growing

BUT

Women and people of color are underrepresented

Our approach

We bring energy efficiency and renewable energy to underserved communities

We bring diverse talent to careers in the clean energy industry

Challenges for underserved groups (renters, non-english speakers, low-to-moderate income)

- Awaress: Mass marketing, targeted marketing are insufficient
- Trust: The messenger is as important as the message
- Access: One size does not fit all
- Time: Barrier to action must be very low

How we do community outreach



We hire diverse staff and partner with community organizations and cities



We work with a network of energy efficiency and clean energy companies



We execute co-branded outreach campaigns to engage residents face-to-face and through local communications channels



We help residents access and benefit from programs and products that save money and energy

Our Programs

2018: Dorchester

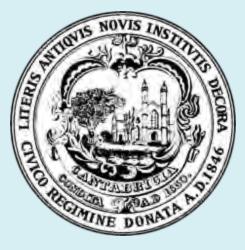
2019: Cambridge





2020: Lawrence

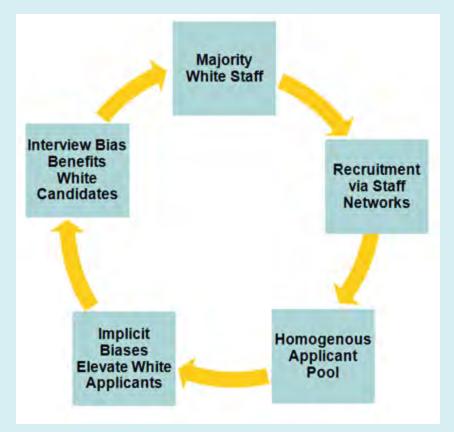




2020: Methuen

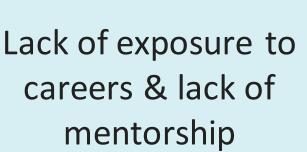


Workforce development barriers



In-circle hiring





Most training programs focused on entry-level installation jobs

We prepare our staff for careers









By doing outreach, our team learns how to talk to customers

We then introduce them to careers in the industry

This prepares our staff for their next role in the clean energy industry When our staff join other companies, they diversify the industry and help to serve our communities better

Our Team

We work with partners, community colleges, and field team to find talent 59% People of Color, 52% women, 57% multilingual

Current Staff/Interns

Past Paid Interns



We launch clean energy careers



Barriers to access to energy programs for underserved populations and how we seek to overcome them



Barriers: Renters

Renters

- Pay into Mass Save monthly, but don't know they can use it
- Tenant/Landlord incentives for action are misaligned
- Little incentive to serve renters (lower insulation probability)

Renters: Cambridge

Innovations:







Canvassing Team

Landlord letter with 100% incentive **Results:**

Pre-COVID: 191 Renters Served in 6 months

COVID era: 90+ renters signed up through landlords

Barriers: Spanish Speakers

Spanish speakers

- Most outreach is in English
- Full process not in Spanish (e.g. Spanish language contracts)
- Negative experiences lead to distrust, disenfranchisement

Spanish Speakers: Lawrence & Methuen

Innovations (in progress):





















Spanish Speaking Outreach/Customer Service Team Spanish-speaking auditor + we are translating rest of process

City channels + Spanish-language channels

Barriers: Low-to-Moderate Income

Low-to-moderate income families

- Access to, or desire to take on, loans
- More likely to be behind on utility bills, so immediate savings less meaningful
- Lack time to learn about, enroll in energy programs

Expanding Access for Low Income Residents





- 1) Experience program from perspective of underserved customer to find the gaps and creative solutions
- 1) Local insight and partnerships are ESSENTIAL to success
- 1) Diverse, multilingual staff at all levels and functions are needed
- 2) Mentoring, promoting & empowering diverse talent to be influencers in industry is critical

We would love to partner with your community to bring energy-saving benefits to underserved groups



Contact for more information

Gabe Shapiro

Co-Founder & Co-Executive Director

Gabe@allinenergy.org

(781) 656-5359

allinenergy.org



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Emily Jones, LISC Boston

Expanding Clean Energy Access

NESEA BuildingEnergy Boston Conference 2020

Table of Contents

- Who is LISC?
- Why Clean Energy Access?
- Addressing Three Barriers for Affordable Housing Residents
- The Future And How YOU Can Help

Together with residents and partners, LISC forges resilient and inclusive communities of opportunity across America great places to live, work, visit, do business and raise families.



Why Clean Energy Access?





Barriers to Access

- 1. Knowledge
- 2. Coordination
- 3. Money









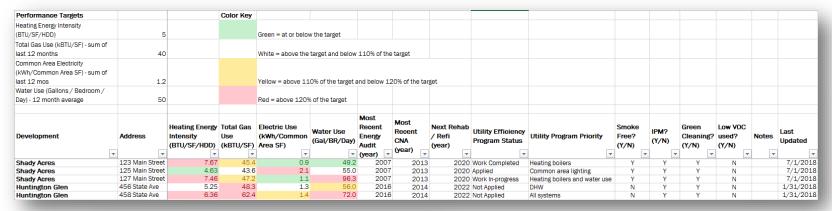
#1: Knowledge

Benchmarking

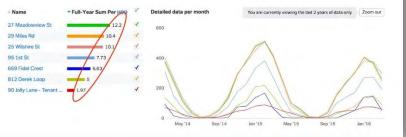
Green Asset Management Plans Comprehensive Energy Audits Forums/Workshops/Peer Groups



Building scientists Neil Donnelly and Emma Van Lieshout assess a building (Photo Credit: New Ecology).







Harbor Court e / x

Taos: Has Pool, To Watch

Heating energy -



The Green Engineer leading 50 affordable housing professionals in LISC's Fall 2018 LEED Green Associate Training (Photo Credit: LISC Boston).

#2: Coordination

Mass Save LEAN Coordination Kickoff Design Meetings Solar + Storage Partnership

AFFORDABLE HOUSING REFINANCING ENERGY EFFICIENCY ROADMAP

1. ARE YOU ELIGIBLE?

 Energy efficiency programs are sponsored by Mass Save and LEAN.
New construction or gut rehab = New Construction Program eligible.

3. START EARLY

 Energy assessments are provided at no cost. WegoWise benchmarking enrollment is offered for Low Income Multi-Family projects. Programeligible measures reduce reserve contributions, increase NOI, and allow underwriting of prospective energy savings. Finance agencies count energy efficiency incentives as an additional source of fundscommitment letters are available. Eligible measures may include: insulation, sealing of air leaks, heating and hot water systems, refrigerators, interlor and exterior LED lighting, and other cost-effective energy efficiency upgrades. A Capital Needs Assessment will identify replacement needs for eligible measures. Programs may be able to pay for an earlier install.

2. IDENTIFY MEASURES

START

4. SELECT VENDORS • Program vendors perform all cost-effective work, OR by pre-arrangement, Low income Multi-Family projects may use their own architect, engineer and

CALL 617-348-6425





Allston Brighton Community Development Corporation's Green Retrofit Project with Cliff Geissler and Dariela Maga (Photo Credit: Dariela Maga).

#3: Money

Passive House Design Challenge

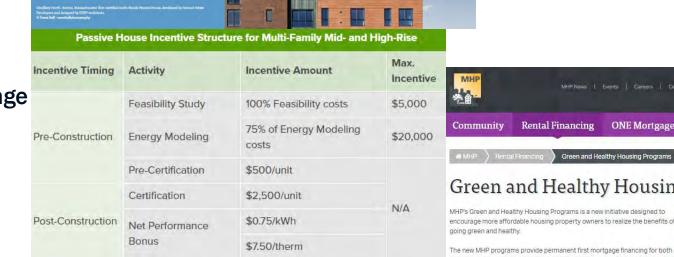
Mass Save Passive House Incentives

QAP Bonus Points

Preferential Financing



Passive House Incentives Take Energy Efficiency to a New Level





Green and Healthy Housing Programs

MHP's Green and Healthy Housing Programs is a new initiative designed to encourage more affordable housing property owners to realize the benefits of going green and healthy.

The new MHP programs provide permanent first mortgage financing for both new and existing affordable housing developments using any of MHP's capital sources including bank financing, Fannie Mae, or FHA Risk Sharing. MHP underwrites and services all of its loans regardless of the capital source.

MHP's three Green and Healthy Housing Programs are:

- · Green Building Certification Financing (GBC) Designed for new and existing multifamily projects, GBC offers reduced interest rates, reimbursement for commissioning costs up to \$15,000, and free energy performance benchmarking services for the first two years after the closing of the loan.* Term sheet.
- Green Retrofit Financing (GRF) GRF offers increased loan proceeds, free energy audits, reduced interest rates, and free benchmarking services for the refinance and rehabilitation of multifamily projects that invest in property improvements that reduce

MHP's new Green and Healthy Housing Programs Overview (Credit: MHP).

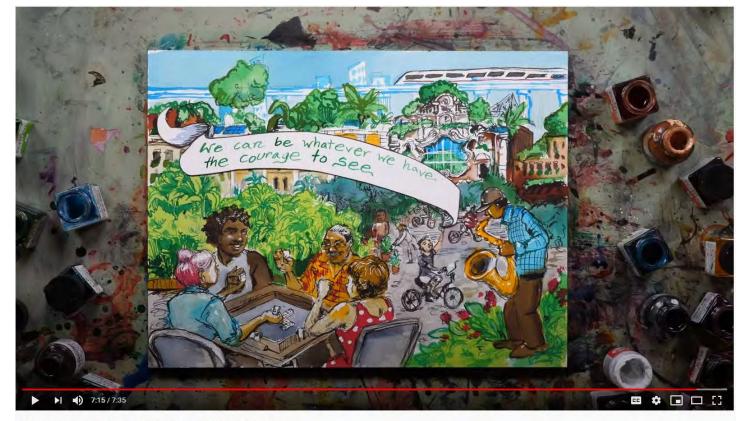


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The Future – And How You Can Help

Equitable Green New Deal





A Message From the Future With Alexandria Ocasio-Cortez

"We can be whatever we have the courage to see."

– A Message From the Future With Alexandria Ocasio-Cortez

Thank You!

Emily Jones 617.410.4336 ejones@lisc.org lisc.org/boston



BUILDINGENERGY BOSTON

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