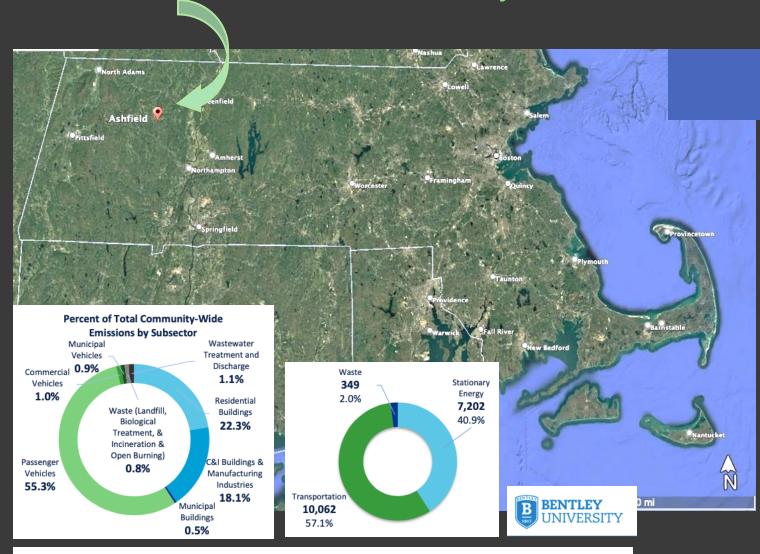
# Green Communities Summit

November 22, 2024

Mary Quigley
Town Hall Steward
Energy Committee
Town of Ashfield, MA 01330

# Finding Ashfield

- ...in the rural hilltowns of Franklin County
- "Huntstown" settled in mid-1700s, incorporated 1765
- 40 square miles, predominantly forested (30 sq. mi)
- Population 1800
- 853 households, 15% rental
- 75 miles roads
- Historic agricultural economy has shifted
  - More diverse with influx of new residents working in education, arts, social services, etc
- 2020 emissions: 9.7 MT CO<sub>2</sub>e
   per person (= 17,389 MT CO<sub>2</sub>e)



Baseline Greenhouse Gas Inventory for the Town of Ashfield

# Compact Town Center

Many of Ashfield's businesses, gathering places, and most of its civic spaces live in close juxtaposition with private residences along the mile-long stretch of Main Street (Route 116).



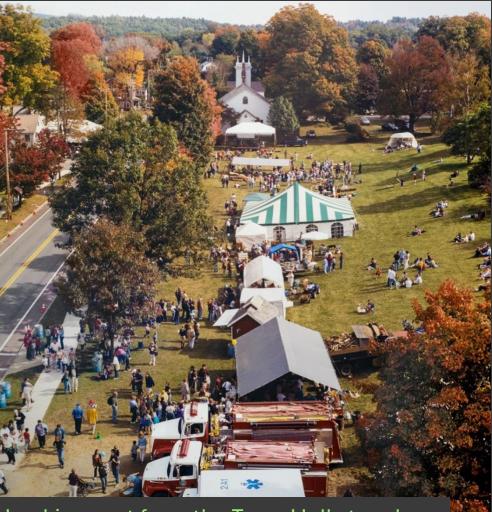
# Historic Buildings Embrace the Common



**Historical Society** 



First Congregational Church



Looking east from the Town Hall steeple during Ashfield's annual Fall Festival.



St. John's Episcopal Church



**Belding Library** 



Town Hall

# Green Communities Certification 2011



# Green Community Projects 2011-2020

#### Town Hall

Energy Audit \*

Excavate under town hall

Replace boiler\*

Insulate exterior of office walls and ceiling \*

Install tankless water heater \*

Convert holiday lights to LED\*

Insulate/airseal foundation \*

Add heating zone controls \*

Add NEST t'stats \*

Add additional radiation

Replace exterior door \*

Insulate exterior walls of Police Dept

Insulate exterior walls of men's room

Install dehumidifiers and upgrade vent fans

Air seal front crawlspace

Vent fan front crawlspace

upgrade lighting

Storm windows office

Storm windows first floor

ERV offices

Storm windows 2nd floor

Window quilts offices

#### Fire House

Energy Audit \*

Wall & Attic insulation \*

Replacement door \*

Office ASHP \*

Garage heater \*

LED holiday lights \*

Replacement door

Replace strip lights-LED

Add sub-slab insulation

#### Highway Garage

Energy Audit \*
U Mass Clean Energy site
assessment
Lighting upgrade

#### Other

Solarize Mass campaign Energy Manager Grant \* Bike Racks \* Streetlights inventory \*

\* Green Community funded (& much volunteer labor!)

#### Library

Energy Audit \* NEST thermostats

Energy audit/specs. HVAC

ASHP system whole building \*
Electric on-demand water

heater \*

Bath exhaust fans

Window quilts

LED lights

Ceiling fans

#### **WWTP**

Exterior lights upgrade \*
Reduce heated area/insulate \*
New heaters \*







# 2019 Green Communities Competitive Grant

\$13,200	Town Garage	Energy management system improvements
\$5,000	Town Garage	Insulation and air sealing
\$7,221	Library	Attic insulation
\$3,276	Town	Building Operator Certification training
\$3,169	Town	Administrative costs
\$3,000	Police Dept.	Hybrid vehicle purchase

Completed 3/22/21



# Town Hall Steward + BOC training





- Steward already knowledgeable about this historic building ...and its challenges
- Additional knowledge gained:
  - Methods of data collection to substantiate the need for preventative maintenance & energy related upgrades
  - How to recognize & evaluate energy use patterns
  - How to develop plans for improvement

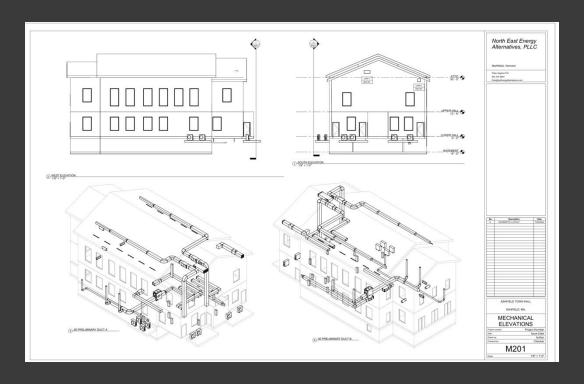
## Green Communities Committee Renamed



"The Ashfield Energy Committee, formerly known as the Green Communities Committee, is charged by the Select Board with helping the Town promote and implement policies, programs and projects to foster energy conservation, renewable energy generation, sustainability planning and waste reduction for municipal buildings, infrastructure and equipment and for residences and businesses; and helping the Town secure the assistance and funding necessary to achieve our goals toward energy resiliency."

https://www.ashfield.org/2174/Energy-Committee

## 2022: Municipal Energy Technical Assistance Grant (META)



\$12,500 META grant provides full construction documents to convert oil furnace and propane boiler to air source heat pump.

Plan includes ERVs, all electrical upgrades, insulation, air sealing.

# 2023: Green Communities Competitive Grant

# Proposal Ashfield Town Hall Decarbonization Project

Gross cost: \$575,199.00
Utility Rebate -\$154,133.00
Net Cost \$421,066.00

Green Communities 75%: \$315,799.00 Town Contribution 25%: \$105,267.00 Additional Donated Labor \$24,000.00

# 2023: Green Communities Competitive Grant

(the road not taken)



Select Board signed the application and the final letter committing the Town's 25% contribution. However, the Board then reserved the right to "not accept" the grant when available, citing reservations about operating costs.

The Energy Committee then tabled the application rather than take that risk.

# Major Setback? NO... a reboot

- Pursue Municipal Solar
- ▶ Pursue Climate Leader Status
- Increase communication with Town boards and committees
- Further community education and support.

# **Engaging Partners**







government

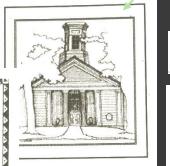
Massachusetts
Municipal
Association

corporate





COLULIA



The Ashfield News





UMassAmherst

Clean Energy Extension

The Woodlands Partnership of Northwest Massachusetts\*



# Polling the Community: 2023 Solar Survey

- 242 responses 25% of the community households? (54% of respondents > 65)
- 43% of respondents had solar PV systems
- 91% extremely or moderately concerned re climate change
- 94% positive or very positive attitude towards solar energy
- 69% supportive of solar development to meet municipal needs
- 74% support developing all available roofs, parking lots, disturbed areas for solar
- But 52% prefer no more than 10% of undeveloped (natural, agricultural) lands developed for solar; 21% indicated 20-30% might be developed.

# Public Education and Community Organizing

#### What Does it Mean to Have Climate Goals? Consider These Actions 6 THE ASHFIELD NEWS NOVEMBER 2024 achieve the goals set out in its Climate Leader plan. We aim to reduce our emissions by 15,

Committee

BY ELLEN LEUE

hot, sunny days

conditioners are

when the air

You may have heard that the world needs to keep the warming trend to no more than 2 degrees centigrade to avoid the worst consequences of climate change. The floods, wildfires, hurricanes and so on are already getting a big boost from climate change, even though we are only at +1.1c so far.

chusetts ranked fourth in the nation for these

small-scale systems. To me, this means we

protect it (and save money in the process!).

Huge offshore wind farms are under

of power and cover nearly 20 percent of our

community geothermal (ground source heat

pumps), putting pipes under towns to both

heat and cool multiple buildings at 15 percent

What about the problems of intermittent

production? The sun doesn't always shine nor

does the wind always blow (though each is

often most active when the other is not, so

wind and solar can be complimentary). Much

of the slack can be taken up by battery storage

being produced, they can pump water uphill;

then the process is reversed if power genera-

tion is low from wind and solar, and hydro

power fills in the gap. Together these plants

way have a chance to convert

can cover up to 1,700 MW in power

or "pumped hydro" at the Northfield Moun-

tain and Bear Swamp hydroelectric plants. When we have an excess of renewable energy

electricity needs. Eversource is exploring

love the land where we live and want to

And we're not done yet.

#### Renewable, Non-Carbon Sources Speed Greening of Grid in Mass. Ashfield Energy

There's a lot of talk these days about the move to electrify our household appliances, vehicles, commercial buildings and towns in order to reduce emissions and hold off the worst of climate change. But does this really make sense? Isn't electricity mostly supplied by burning fossil fuels, even dirty fuels like

construction that will add another 2,678 MW That may well have been true not long ago, but the times they are a-changin. Eversource reports that a full 76 percent of its electricity is generated from renewable and/or non-carbon sources, including solar (photovoltaic and thermal), wind, hydropower, methane (captured from compost facilities or landfills), biomass and geothermal. Massachusetts as a whole has a Clean Energy Standard (CES) that increases by 2 percent each year.

So if you switch to mini splits for heat, you will go from burning 100 percent fossil fuel to a lesser percent, and over the life of that mini split your numbers will keep going down as the grid becomes greener and greener.

Our state is not awash in sunshine like the south and southwest U.S. The wind isn't always fierce like in the Dakotas and we don't have much lava bubbling under the surface

like Hawaii. So how are we to meet the CES? Massachusetts has more than 500 operatFor example, the Methane Reduction Plan alone has 50

Committee

Act with regulation.

specific actions. They plan on having 50 percent of passenger vehicles be electric by 2030, and 100 percent of those sold by 2035. In 2023 we were at 9 percent, but this is rising quickly, a 50 percent jump over 2022. Key to reaching the goals is making our

:lectricity supply clean — 55 percent by 2025 and 100 percent by 2035. Although use of renewables and non-carbon energy are rising very fast, we will likely miss the first goal. In 2023 the U.S. still got 60 percent of its power from fossil fuels. And many other tactics, such as taxing carbon or making all new household appliances electric, are even trickier to

Massachusetts' plans mostly mirror the accomplish. national plan, with some twists. Here, we plan to reduce emissions by 25 percent by 2020, 50 percent by 2030, 75 percent by 2040, and (net) 100 percent by 2050, relative to 1990. Conservation of forests is a big part of the goal - that was at 27 percent in 2022, but they are

Pretty well, though not amazing. We made it to better than 31 percent emissions reduction in 2020, but that was the year we spent a good share of the time on our couches because of the pandemic. And although electric vehicle use has been growing at an impressive 25 percent a year, we will still miss our goal of 200,000 EVs by 2025. But overall,

are efforts at the local level. For example, the "stretch code" for buildings that mandates a higher standard for insulation and electric-ready wiring has been adopted by 45 municipalities so far, representing 30 percent of the population of Massachusetts. And Ashfield is one of them. But new homes are scarce here, so much of the change will have to depend on retrofits of existing homes. The sizable incentives on heat pumps, EVs and solar arrays must continue to bring in many new converts to the electric way of life for us to achieve our goals — and preserve that way

35, 65 and 95 percent for the years 2027, 2030, 2040 and 2050, respectively. There is a lot of work to do to replace fuel burning in our town buildings and vehicles with electric power over the next 25 years. But to maximize the

impact, residents will need to step up and do Massachusetts leads the nation in lowering its emissions. Kudos to us!

Your children and grandchildren are depending on us. The truth is, achieving our goals will require every one of us to change our habits, our investments and our actions. Think about energy every day, and you can Fueling this success — pun intended make an impact. Combine errands to save gas, replace gas appliances with electric, use a smart thermostat and keep your house cool in winter, warm in summer. Sign up for community solar if you can't have a con and start savihouse and car Your perso the goals for t

and ultimatel Ashfield.

Ellen Leue wr Energy Comn

# Discounts Available for Residential Solar Projects, But Deadline is Near

Editor's note: This article was prepared by the town's Energy Committee and submitted by Alexandra Osterman.

It is exciting to see the Residential Solar Campaign continuing. In June, many of the vendors who came to our table at the Ashfield Farmers Market to meet residents have started scheduling site visits for free assessments of whether solar would be a good fit.

It is not too late to participate in this

Any resident who signs a contract with one of the participating vendors by August 30 will

nighttime power will be purchased from Committee the utility. If you use

more than you produce you will still owe on your bill and if you produce more than you use you will get a credit on your bill.

If the grid goes down in a power outage, you will not have power, even though it may be a sunny day after the storm that knocked out power. Without batteries, there is no way for you to access the power from your solar panels during an outage.

ly people in the Hilltowns have ors to deal with power outages, either g extension cords from a basic outdoor erator or having a wired-in, whole

eries paired with solar are a great way manage power outages and become nergy self-sufficient. The solar comparticipating in the residential solar gn also offer battery storage. can ask them for a battery storage il along with your solar proposal. They ign a battery storage system based on erage daily energy use and the ıl will show costs and payback time. ittery storage systems are wall d and can run a home for one to two nger with rationing of power and if e sunny days during the outage to e the batteries. ed on page 7

#### Ashfield's 'Solarize' Campaign Extended Two Months to Oct. 31 "We're thrilled by the Ashfield communi-

BY PEYTON FLEMING

Ashfield's residential "Solarize" campaign is being extended through October, giving residents more time to decide on potential projects and vendors they may want to use. The extension is especially relevant for the

group discounts that are available if multiple customers sign contracts with the same solar vendor during the campaign period, which began May 11 and was to end Aug. 31.

A half-dozen local vendors participating in the program have all agreed to extend the deadline to Oct. 31. Among those is PV Squared Solar, which is offering \$500 to \$1,500 rebates (\$500/up to 5 kilowatts, \$1,000/5-10kW, \$1,500/over 10kW) if five or more Ashfield residents sign contracts with the Greenfield company during the campaign

ty's interest in solar," said Rachel Levey of PV Squared Solar, which has signed two contracts in Ashfield this summer and is responding to a half-dozen other inquiries. "To ensure that folks have time to make a thoughtful and informed decision amid vacations and back-to-school planning, we're extending the program deadline to the end of October."

Insight Energy is offering a \$500 cash discount if it signs five or more projects during the campaign period.

"We enjoyed meeting local residents and vendors at the farmers market, and it resulted in a bunch of inquiries and follow-ups, one of which resulted in a finalized project that we'll be installing this fall," said Leah Visconti, project manager at Insight Energy. The other participating vendors are Valley

Solar, Greenfield Solar, Current Energy and Northeast Solar.





# Public Forums

How can Ashfield become more energy independent?



Please Join the Ashfield Energy Committee for a

#### Public Forum on Solar Energy in Ashfield

Monday November 6th at 7pm Ashfield Town Hall

Presentation on Ashfield's Solar Action Plan, including a new Residential Solarize Campaign and Municipal Solar possibilities

Come with your thoughts, questions & concerns - We want your inpu

Find out about exciting grant-funded solar projects other neighboring towns are doing to save \$\$\$ and reduce future municipal bills

# Forests & Carbon Sequestration: A Discussion

Proforestation, Land Conservation and Climate-Smart Forestry Practices

Learn about the important role our forests play in maintaining a livable world and what we can do to protect this important resource.

#### Saturday, September 14th 1:00pm Ashfield Town Hall

William Moomaw

Professor Emeritus, International Environments Policy
Tufts University

Mary Wigmore
Wigmore Forest Manageme

Aaron Nelson Mount Grace Land Trust



# Concentrating our efforts

# Steps Ashfield Can Take to Become a 'Climate Leader Community'

# Editor's note: This column was submitted by the

town's Energy Committee.

In February's Energy Committee column, we discussed our plans to apply for Climate Leader Community (CLC) status with the Department of Energy Resources. To do this, the committee will bring three warrant

articles to Town Meeting. This month's column presents those articles in more detail, invites residents to a public forum to discuss them on Wednesday, April 17, and asks for your support at Town

#### Why is Climate Leader Community Status Important?

We see two primary reasons: environmental and economic. To ensure a liveable climate for our kids and grandkids the state of Massachusetts has set goals for greenhouse gas reducments for Climate Leader Community

Ashfield Energy

status are designed to help us get there.

The science is clear and the clock is ticking. We need to continue to make progress towards net-zero emissions and the Climate Leader Community require ments provide a gradual way for Ashfield as a

municipality to achieve this by 2050. Once certified, Climate Leader Communities can apply for grants for activities and projects beyond the energy efficiency projects now funded by Green Communities grants. Grants will advance clean energy and climate

#### Municipal Decarbonization

The current draft text of the resolution is: "To see if the town will vote to commit to decarbonization (defined as the elimination of all on site burning of fossil fuels in municipal buildings and vehicles) of municipal operations by 2050 in accordance with state climate goals....Be It Resolved, that the members of Ashfield Town Meeting call on Town government and staff to commit to a climate mobilization effort, with appropriate support from the state and federal governments, to bring municipal net carbon emissions to zero as quickly as possible, with a

This is quite simple. It declares our target date of 2050." intention to move gradually to net-zero emissions over the next 26 years. It does not require us to do anything drastic or sudden.

Once we have the CLC designation, we will have access to grant funding to achieve this goal. Another of the CLC requirements is that we create a "Decarbonization Roadmap," which uses trigger events such as a town building's HVAC system coming to the end of its life expectancy, building of a new town building, or replacement of a municipal vehicle to plan how we will gradually move away from fossil fuels in a way that will not place an undue burden on taxpayers. The Energy Committee will work on the roadmap with support from DOER and the Select Board will have final approval of it.

#### Helpless, on Town's Low-Carbon Future

BY MARY QUIGLEY

In 2011, as a member of the Green Communities committee, I stood in front of Town Meeting and proposed the town adopt the Stretch Energy Code as an appendix to the Massachusetts building code. The purpose was to provide a more energy-efficient alternative to the base energy code for both new construction and existing buildings. We adopted it in a unanimous vote and

have been using it ever since.

Thirteen years later, things have changed. The Green Communities committee became a part of the new Ashfield Energy Committee. Our understanding of how building emissions contribute to climate change has grown. New construction technologies have been devel-

policy, we could ultimately lose our Climate Leader Community designation, but would not face any penalties for doing so.

#### Adoption of the Specialized

The specialized building code will be brought

But more needs to be done. According to a

#### 'Solar Social Hour' Offers One-Stop Teach-In on Energy Option

the solar curious, the list of questions is For the solar-carbons, the list of questions is bedy: In solar the cheepers solution for powering your hom? What cor savings and whether benefit what cor savings and solar benefits solar sees saving? In Abdield and power valley, you in Abdield and power valley, and and carn Addresder's benefit from the Arnd carn Addresder's benefit from the agency of your sur he source translates?

data from Lecember. Massertments use it fourth highest utility rates in the country. Residents have lots of solar vendors to counts if they use the same installers? COURTS IT THEY USE THE SHIFTE INFORMATION THESE ARE AMONG THE THROUGH THE SHIFTEN THE SHIPTEN THE SHIP \* from 2 to 4 p.m. May 11 are the Ashfield Public Library. The event is the formal kickoff of the towns three month. ntial Solarize campaign, running from

residential Solarise campaign, rummung, cust May 11 to Aug. 31.

\*\*\*experience couls dropging and global so a sein write for couls dropging and global so a sein write for residents looking to lower during electrical bill, and help protect the planes, said Alexandro Ottomen, class of the township said Alexandro Ottomen, class of the township communities; which is speatteaching a Committee, which is spearheading a intywide go-solar effort focused on h residential and municipal properties.
We're excited that so many residents are

looking to get away from high polluting fossil nooning to get away from augn pommit fuels by embracing solar," she said. The vast majority of Ashrield's solar

foodprint today on resource and presently 20 percent work systems, experiencing, nearly 20 percent of households, Achdaving the Earney Count mittees paid on standing the tower nearly 26f-sufficient states golden exoult counts 22f-sufficient value golden exoult counts with to body or 15 magnessis which to the present to the count to many sourse, the conditions are eight ramping of those numbers, Countder the

nearly 70 percent in the past two decades, ording to the Lawrence Berkeley National

dential rooftop and ground-based striar

#### Town's Elders Explain Their **Commitment to Climate Action**

MAY 2024 THE ASHFIELD NEWS 9

CCL or the Ashfield Enen

raking your next car an EV vehicle, among other things,

Brian Clark has been duing th

volunteering on the Ashfield (

free itself from depen

civilization that human cause

change represents. I now vis-as the biggest threat to the sc

suitable zero emission vehicle

fuels such as propage and nat

must be followed for on-site:

having more time available for volunteering, and a strong motivation to leave a positive injuscy for their children and grandchildren, in this article we will explore different ways in this article we will explore different ways (RECs) cath payables for battery succeeds are available for battery succeeding are available for best pumps.

Using solar is the easiest way to reduce the besty electricity balls that Massachusetts been pay \$160 a month on average, residents pay \$160 a month on average, according to U.S. Foncey Information Agent according to U.S. Foncey Information to the control of the payable of the payable

older adults are contributing to the movement to address climate change and profile local elders making a difference.

choose from the most popular locally being Northeast Solar, PV Squared, Valley Solar and 2022. PV Squared, Valley Solar and Northeast Solar were also the top Tanked solar installers in the Valley Advocates 2023 reader's poil. But the industry still faces challenges. After But the industry still faces challenges, Artel turnultuous supply chain disruptions during the pandentic, the sector is now wresting

prears, both personally making as purchasing an EV and insta home and for the family orcha

Asked what this work means to him. P.
stotes: "There are so many reasons to feel
topeless, but your attitude can always be
idjusted. You can choose optimism. We Olar. Sue notes that amount others, course of

lected, he could throw the federal tax credit out the window, she sam.
Still, today's solar landscape is bigger and Harry Dodson has been a member of the

cooperatively owned associated to residents can subscibe to.

Unlike the trawn's Solarize 2015–16

campaign, which offered only one out, of state campaign, which offered only one out, of state solar provider, residents now have a dozen solar provider, residents now have a dozen

said, the Select Board could si Climate continued from page ! especially focused on baddings and transportation of the township of the towns

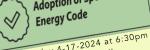
ter treatment plant's 2017 pick in.

proposed municipal decarbonization proposed municipal decarbonization ment, which would be non-binding-rending lossifitud use in municipal gas and town vehicles by 2050. The gould require the creation of a decarbonized proposed by the Select appropriate the control of the Select appropriate t Energy Debate roadmap would use trigger erents, such

Make Ashfield a Climate Leader Community! Ashfield Energy Committee

on the 3 articles we need to pass at Town Meeting to achieve Climate Leader





Wednesday 4-17-2024 at 6:30pm Lower Town Hall

Presentation by Chris Mason from DOER Q and A session

#### COMMENT Ashfield Stands to Benefit as Climate Leader Community

for Climate Leader standing. The most Amate Leader standing, the most ream thing now is to approve three d warrant articles at the May 4 Town verting. One is a commitment to moving vay from lineal rules (aka decarbonization,

meta has been a certurea massicimeres
in Community since 2011 and has
fated from state grants to find ways to a trum state grants to more works to nergy efficiency in residential and applications. Through our partici-

A second article commits the rown to a "Zero Emission Vehicle First" policy when purchasing new town vehicle. This is a relatively minimal impact to us since large

adopting the Specialized Energy Code, which

# **Moving Forward**

# Spring 2024

#### January

- Column in Ashfield News
- Chris Mason presents CLC to Select Board
- Select Board votes to include 3 warrant articles to Annual Town Meeting

#### February-March

- Continue columns in Ashfield News, on-going community education
- Develop ATM warrant articles
- Research other municipal efforts on CLC
- Contact local builders, electricians for input
- Seek Town Moderator advice re language

#### March

- Community Forum on CLC
- Email personal contacts with materials, solicit their support

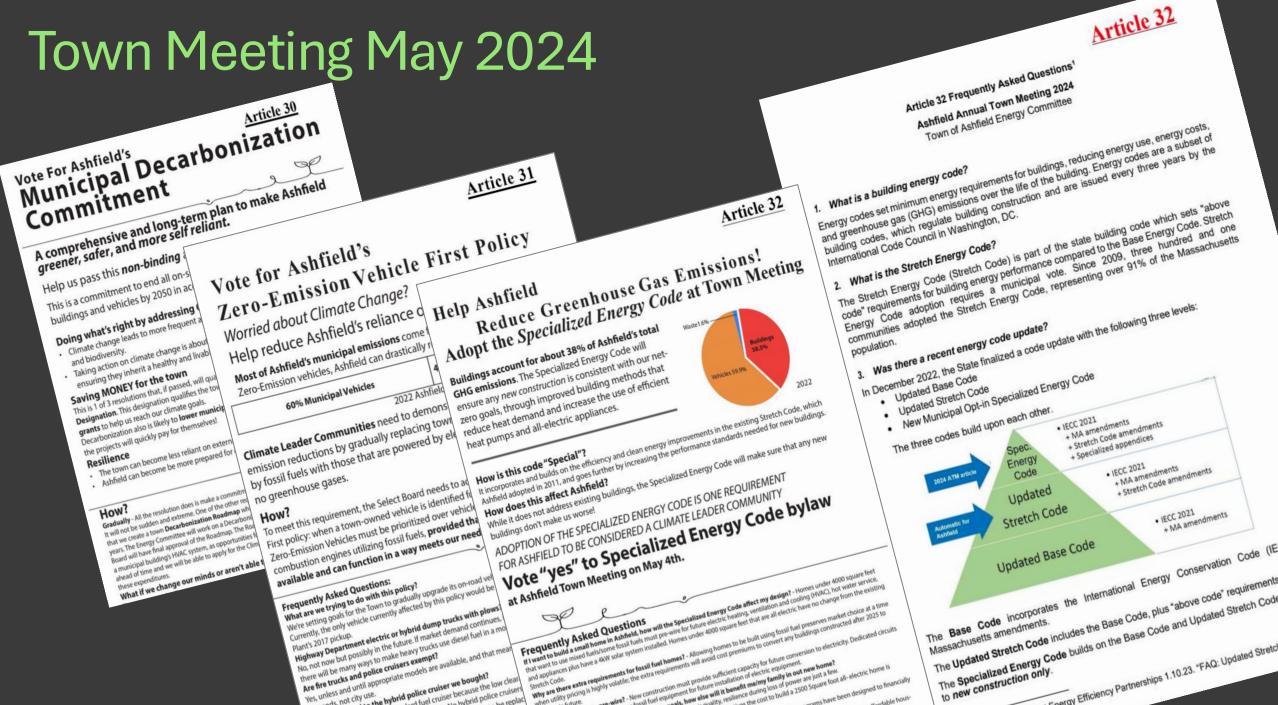
# Moving Forward

# Spring 2024

#### April

- Educate and solicit speakers for ATM votes
- Town-wide email announcing forum
- April 17 Chris Mason speaks at forum
  - Weekly library outreach sessions
- On-going recruitment, training of ATM speakers
- Final meetings with Finance Committee, Select Board
- HERS Rater presents info on Specialized Code

#### May 4: Annual Town Meeting





# The Ashfield News

AN ALL-VOLUNTEER NON-PROFIT MONTHLY NEWSPAPER SINCE 1976 VOL MMXXIV NO 6 JUNE 2024

### 'Among the leaders' on clean energy

Town Meeting voters pass Fourth of July." bevy of proposals to combat climate change

> By DIANE BRONCACCIO For the Recorder

ASHFIELD - When Bill Ryan moved to town 25 years ago, an oldtimer told him, "In Ashfield, we only ergy Committee proposals to drasti-

"In my first year here, we had 120 inches of snow," Ryan mused. "Not

On Saturday, Ryan was among several Annual Town Meeting vot- ing something. ers waxing poetic about weather changes on a glorious spring day changes that seem to be heralding climate change in real time — and have two seasons: winter and the cally reduce fossil fuel emissions in

town over the next 26 years.

powerlessness." said Ryan. "It would renewable energy sources by 2050.

cles, Ashfield is now in line to become ble. And the third article calls for an one of the state's first "Climate Leader" early adoption of a specialized energy Communities," helping urging others to support three En- sachusetts reach its greenhouse gas mance standards for any new building

The first article is a decarboniza

tion resolution to reduce greenhouse "I'm hearing fear, helplessness and gas emissions and transition to clean, be great if we can say to our children, The second calls for Ashfield to even-'We are among the leaders. We are do-tually replace old town-owned vehicles with more energy-efficient elec-By approving all three warrant arti-tric or hybrid vehicles whenever possi-Mas- code that lays out new energy perforconstruction, effective January 2025.

SEE ASHFIELD A8

#### Clean energy articles approved

#### **ASHFIELD FROM A1**

Under this third article, mixed fuel residential and commercial buildings must be prewired for electric space-heat- School District represents a ment plant. After the septic sysing, water heating and electric 7.5% hike for the town. appliances. Also, most structures must have some photovoltaic energy sources to meet certification standards.

The last article drew the licworks. most discussion because of concerns that a higher building cost would keep young people from moving to town.

"We're a generation that is incredibly concerned about the vices. This includes a \$64,989 climate, and we are incredibly broke," said Tadea Klein. "I've Garage and paying off the full been here for the transition, broadband debt interest of where you're wondering if it \$25,834. will snow in May, to where you are wondering if we're going to Enterprise Fund, paid entirely Act (ARPA) money by July 1. get any snow."

- \$3.1 million for education costs. Ashfield's assessment to was installed before the town the Mohawk Trail Regional had its own wastewater treat
- \$595,353 for general gov-
- ■\$523,734 for public safety.
- ■\$915,562 for roads and pub-
- ■\$69,844 for health and human services.
- \$114.365 for cultural and recreation expenses.
- \$90,823 for total debt serpayment on the Highway
- ■\$902,251 for the Broadband from subscriber fees revenues.

for fiscal year 2025. These in- and put it on the town sewer. Selectboard member Thomas Carter said the septic system tem is removed, the town will pave the parking area behind the library.

Another \$12,500 will be spent on replacing Town Hall's computers with up-to-date models.

Voters agreed to start a Grant Match Stabilization Fund, with \$312,571. This money, in an account that can earn interest, will be set aside for future state and federal grants that require matching sums from the town. Because the town had to spend the rest of its American Rescue Plan voters agreed to transfer that

#### **Town Meeting Votes Move Ashfield Ahead** As a 'Climate Leader'

BY PEYTON FLEMING AND LARRY PARNASS

After the approval of three articles related to climate change at last month's annual Town Meeting, the town's Energy Committee is moving quickly to secure a formal state designation as a Climate Leader

Cities and towns in Massachusetts have until July 25 to apply. Communities that are approved later this year will be the first "class" of Climate Leader Communities under the program launched in November.

"We're being a leader, and it's really exciting to me," said **Energy Committee** Chair Alexandra Osterman, who is spearheading the town's push for the state designation.

The program, administered by the Massachusetts Department of **Energy Resources** (DOER), is aimed at helping Massachusetts communities



Mary Quigley speaks in favor of the climate leader articles at Town Meeting. Photo by Jane

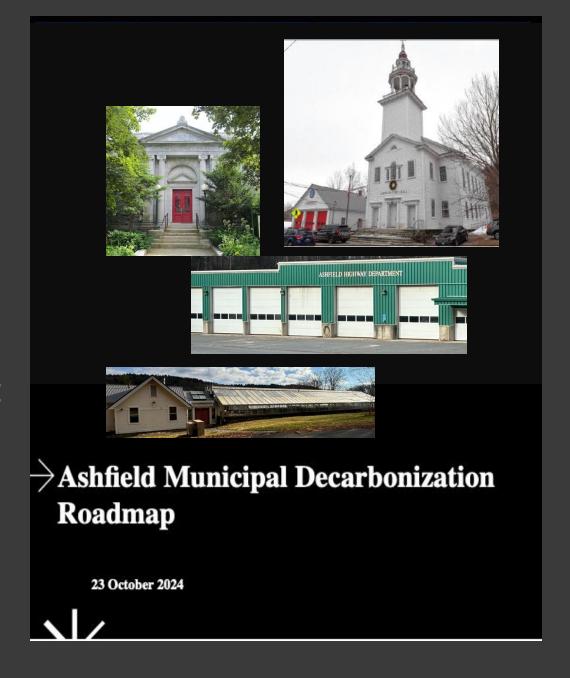
meet their climate and greenhouse gas (GHG) reduction goals, including eliminating fossil fuel use in municipal buildings and vehicle fleets by 2050.

Communities that are approved can apply for state grants to help cover the costs of decarbonizing projects at municipal buildings and vehicles fleets, such as police and highway departments.

In an interview with The Ashfield News, Joanne Bissetta, director of the Green Communities Division at DOER, praised Ashfield for the "proactive" leadership that could make it one of the state's first Climate Leader Communities.

# **Moving Forward**

Completing the final requirement for Climate Leader Application



# Projects 2023-2024

## On-Going Public Engagement

- Brought new solar bylaw (with Planning Board) to Special Town Meeting 8/8/23
- Solar Resource & Infrastructure Assessment (UMass/Amherst Clean Energy Extension)
- Ashfield Solar Action Plan (resulting from survey with 200 responses)
- Ashfield Greenhouse Gas Survey (with Bentley University)
- Ashfield Community Choice Power Supply Program (MEA)
- Member, Franklin County Energy Committee Coalition
- Advocated for PV installation at Mohawk Regional School
- Initiated monthly energy columns in The Ashfield News
- Hosted monthly info booth at Ashfield's Farmer's Market
- Co-hosted Youth Climate Action Round Table
- Hosted Natalie Blais forum on environmental issues
- Hosted William Moomaw and local panel on forest carbon sequestration
- Formed Municipal Solar and Residential Solar Working Groups, launched solar campaign

### What have we learned?

- Network at all levels:
  - State agencies, town boards and committees (especially Finance Committee), provide community education and seek support
- Engage volunteers, leverage their support:
  - Not everyone needs to be on the committee find their expertise and interest (writing, graphics, neighborhood conversations, liaisons,...)
- Seek advice from experts:
  - Regional Planning Authorities, Green Community Regional Coordinators, Finance Committees, Energy Managers, Grant Writers...
- When facing a roadblock, change course of action!

Thank you!

# Stow: A small town's green journey

Green Communities Summit November 22, 2024

Arnie Epstein Stow Green Advisory Committee

## The Town of Stow

- Rural community thirty miles west of Boston
- 7,200 residents
- 38% of land is conservation or protected
- Apple orchards and golf courses
- Relatively small commercial or industrial development
- Electricity from Hudson Light & Power
- Gas from Eversource



# Stow's Green Journey

2010 Sustainable Stow volunteer group established	2022 Stow awarded \$1.1 million state grant for preservation and restoration
2014 Stow Solar Challenge	2023 Select Board adopts policy for no fossil fuels in new/renovated municipal buildings
2015 Stow designated a Green Community	2023 Stow adopts Specialized Energy Code
2016 – 2020 Heat pump retrofits of three municipal buildings	2024 Stow receives \$500,000 Building Decarbonization grant for library renovation
2019 Stow/Hudson HeatSmart Initiative	2024 Stow adopts Climate Action Plan
2021 Stow Green Advisory Committee	2024 Stow applies for Climate Leader









A joint publication between the Town of Stow's Green Advisory

# Municipal Building Heat Pump Retrofits

Supported by Green Communities grants



Town Building



Highway Department

**Police Station** 

# **Engaging with the community**

- Monthly "Climate Talks" jointly with library
- Energize Stow newsletter and website
- "Green Corner" in local paper
- Monthly meeting with Town Administrator
- Work with town committees and departments
- Green Advisory Committee and Sustainable Stow collaboration
- Periodic community-wide initiatives



A joint publication between the Town of Stow's Green Advisory Committee and Sustainable Stow

#### **Leave the Leaves**

This fall, you can do something easy for the environment. Rather than raking, bagging, and burning leaves, or putting them in the trash for some landfill, the best way to reduce greenhouse gasses and benefit your garden is to leave the leaves on your lawn! Leaves create a natural mulch that helps to suppress weeds while fertilizing the soil as it breaks down. Leaves also provide overwintering habitat for pollinators and amphibians. Among ecologically minded gardeners, raking is out.

If you want to conserve some green lawn that's not covered in leaves, find a location in your yard to leave the leaves until spring. This could be in a border bed, flower beds, or a mulch pile on your property. You can also simply mow your lawn with the leaves still on it, chopping them up into small pieces to break down in place.

In your flower garden, leave flower stalks or cut them to 12-15 inches tall. These provide nesting cavities for larvae in the winter. Our pollinator population is in decline. We need to do all we can to help them.

For more that you can do, see the actions on Energize Stow: Start Ecological Landscaping.



## **Lessons Learned**

- Each step builds on the work done before
- Each step establishes credibility and momentum for the next step.
- A core group of dedicated volunteers is needed
- Town government support needed
- Broad town engagement has ups-and-downs
- Stay the course, the work is a marathon not a sprint.
- The journey never ends.

# **Example – Climate Leaders**

- Get town government engaged
  - Select Board, Town Administrator, and school Superintendent
  - Prior work established reputation
- Many of the Climate Leaders requirements accomplished earlier in the "green journey".
  - Green Community
  - Specialized Energy Code
  - Green Advisory Committee
  - Climate Action Plan
- Work with your regional Green Communities Coordinator
  - Relation established over years of communication

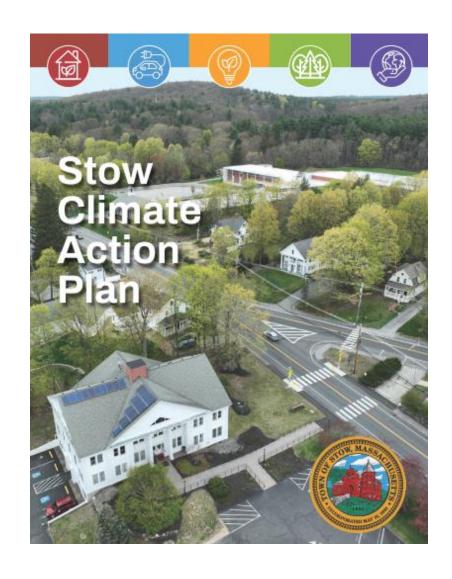
# Example – Stow Solar Challenge

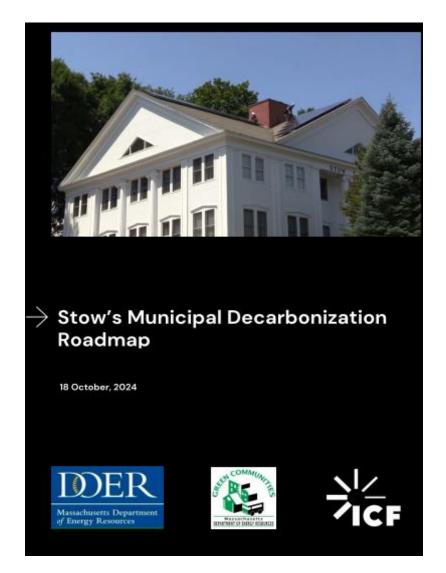
- Town-wide initiative for residential solar
- Keys to success
  - Dedicated volunteers
  - Community outreach
  - Partnering with the installer
- Results
  - 13% of town residents inquired about solar
  - 59 contracts, 417 kilowatts of solar
  - Second most successful solar initiative in state (watts/resident)





# **The Journey Continues**























What is Mass Save

**Existing Incentives for Municipal Buildings** 

**New Opportunities for Municipal Buildings** 

**Tips for Working with Mass Save Sponsors** 

**Additional Resources** 



## Together, we make good happen for Massachusetts.

Your local electric and natural gas utilities and energy efficiency service provider are taking strides in energy efficiency: Berkshire Gas, Cape Light Compact, Eversource, Liberty, National Grid and Unitil.

As one, we form Mass Save®, with the common goal of helping residents and businesses across Massachusetts save money and energy, leading our state to a clean and energy efficient future.

#### WE ARE MASS SAVE®:















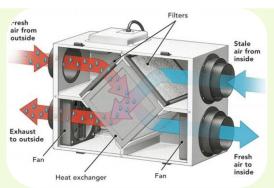


# Existing Incentives: Municipal Buildings

## Incentives for Getting Electrification-Ready



Weatherization



Ventilation



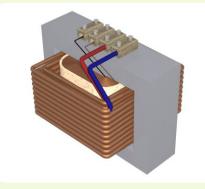
Controls



Hydronics



Variable Frequency Drives



**Transformers** 



**Compressed Air** 



Lighting

## **Benefits of Being Electrification Ready**

- ✓ Reduce energy use
- ✓ Save money on utility bills
- ✓ Reduce required size of (heating, ventilation, and air conditioning) HVAC equipment
- ✓ Reduce need for future service upgrades

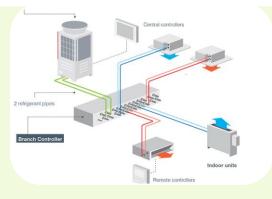
### **Incentives for Electrification**



Air Source Heat Pumps \$2,500/ton (retrofit)



Heat Pump Rooftop Units \$2,500/ton (retrofit)



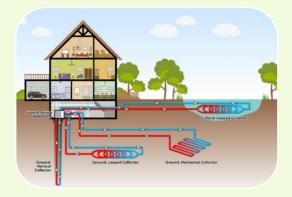
Variable Refrigerant Flow \$3,500/ton



LEV Kits \$3,500/ton



Heat Pump Chiller/Air to Water custom \$ incentive



Ground Source Heat Pumps \$4,500/ton



# New Opportunities: Municipal Buildings

#### **Mass Save School Decarbonization Offer\***



Municipal Energy Manager competitive grant for communities without a similar full-time role. Applications due January 31, 2025. (National Grid and Eversource)



**Technical Assistance:** Portfolio Planning and Project Planning assistance designed to work together with MassCEC's Green School Works program.

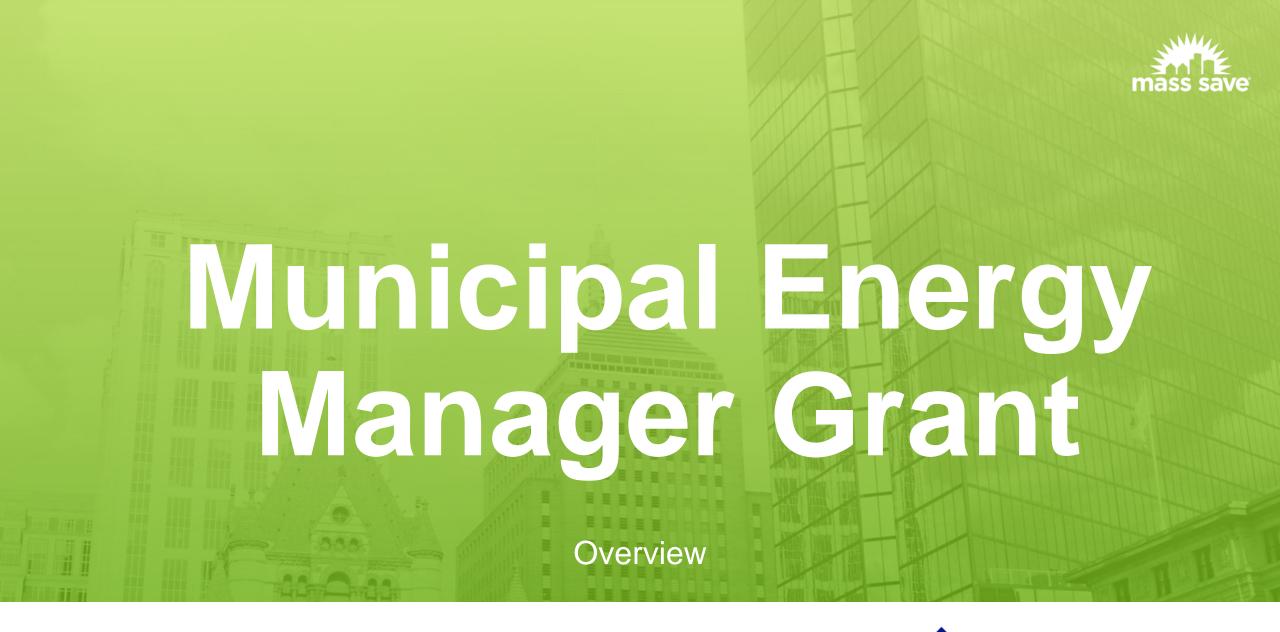


Enhanced Incentives for energy efficiency and electrification of school buildings can work together with MassCEC's Green School Works, MSBA heat pump program, DOER Green Communities.



Staff Training and Teacher Curriculum, such as training for facilities staff and teacher training and student workshops on energy efficiency and clean energy.

<sup>\*</sup> Part of the proposed 2025-2027 Energy Efficiency and Decarbonization Plan and pending approval by the MA Department of Public Utilities.



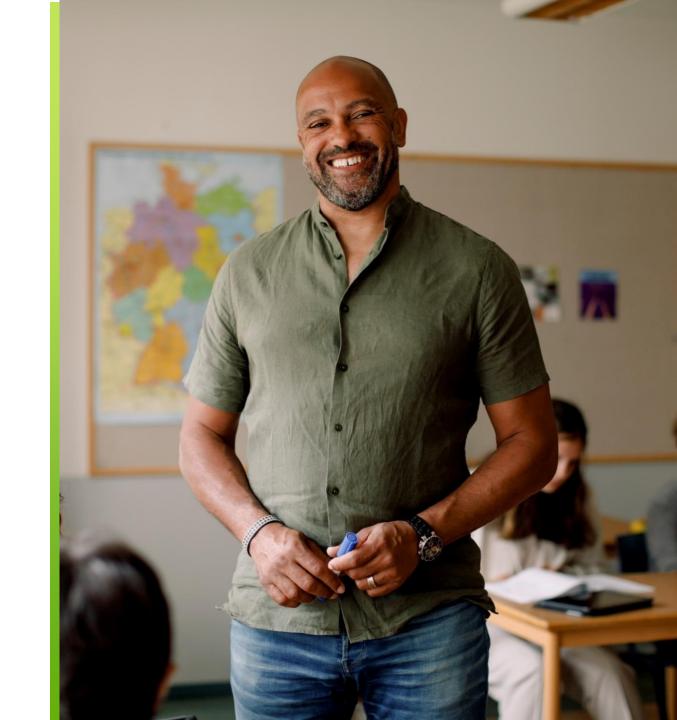
EVERS=URCE nationalgrid

#### **Grant Details**

- ✓ Up to \$120K a year for three years for full-time, part-time, or contract energy manager
- ✓ Covers salary, wages, and benefits for the energy manager
- ✓ Focus on school buildings (existing and new) and help advance municipal energy management plans

Municipalities, regional planning authorities, and consultants with municipal support may apply

For communities that do not yet have full-time energy or sustainability staff



### **Expected Deliverables**

#### **Kick Off**

Funding Agreement between Eversource/National Grid and Grantee

#### **Annual**

- 1. Quarterly check in meetings on progress
- 2. Quarterly reports
- 3. Annual reports
- 4. Participation in Mass Save technical assistance
- 5. 1+ energy efficiency and/or electrification projects each year
- 6. Use of Mass Energy Insight tool



## **Getting Started**

- ✓ List of municipal-owned buildings with size (square footage) and address
- ✓ Signed letters of support from municipal leader and superintendent
- ✓ Description of goals and activities for the energy manager and why your community needs this role
- ✓ Conversations with other leaders or departments

**Application Deadline: January 31** 

https://www.masssave.com/community/municipal-energy-manager-grant





## Tips for Working with Mass Save Sponsors

- √Know your energy efficiency representative(s)
- ✓ Engage with us early
  - ✓ Most municipal capital planning begins 1+ year in advance
  - ✓ Plan for 6 months before Green Communities application due date
- ✓ Reach out with questions: If there's a building upgrade planned, chances are there's a potential incentive.
- √ Take advantage of our technical assistance



#### **Additional Resources**



MA Department of Energy Resources
(DOER) Green
Communities,
Climate Leaders
program



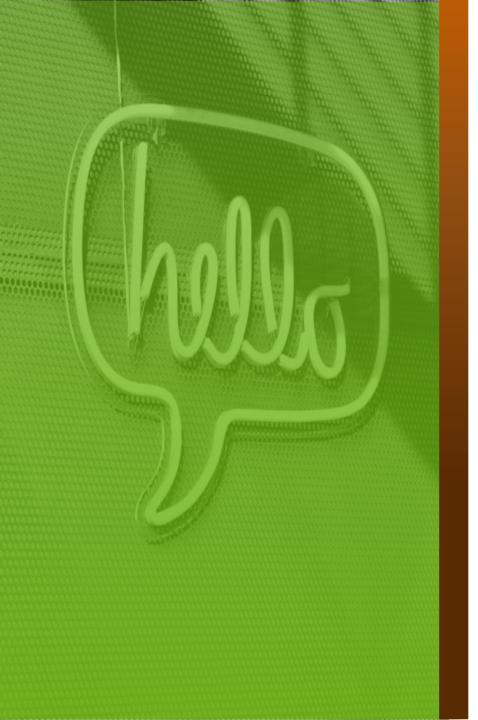
MA School
Building Authority
(MSBA) heat
pump program



MA Clean Energy
Center (MassCEC)
Green School
Works program



Federal IRA tax credits for ground source heat pumps, solar, storage



#### Partner with us:

https://www.masssave.com/en/contact

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WE ARE MASS SAVE®:











