

THE CAMBRIDGE LIFE

SUMMER 2023

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WWW.CAMBRIDGEMA.GOV/DIGITAL



Message from the City Manager

By The Numbers: Impacts of Climate Change

City Sets Aggressive Goals to Reduce Gas Emissions & Address Impacts

Key Investments and Programs to Address Goals

Multilingual Highlights



CITY MANAGER'S MESSAGE



Climate change is impacting our lives and it's a top priority for the City.

As a community, we need to act with urgency and resolve to address this critical work.

As a leader in this work, we have set ambitious goals and have opportunities for all in the community to play a valuable role.

Dear Cambridge Community,

Climate change is the fight of our generation. As I read the news, I only grow more concerned as our scientists express increasing alarm over what we are learning. We are already seeing the accelerating impacts of global warming on our planet – extreme heat, massive wildfires that send smoke thousands of miles away, and severe storms that flood cities and towns. Our changing climate will impact not just the most vulnerable around the world, but also us locally in Cambridge. What we do in the next decade will set a course for the world that we are leaving for our children and the next generation.

Addressing global warming will require an enormous restructuring of our economy and infrastructure and it gives me hope that we are seeing significant action on both the federal and state level. The federal Inflation Reduction Act is making over \$500 billion of climate investments and the state is pushing hard on increasing renewable energy generation and upgrading grid infrastructure that will change the way we use power. But much of the necessary change will also be local – what we do as cities to change the way we live, work, and travel.

The City of Cambridge has been a climate leader for many years and worked closely with the City Council, climate activists and experts, business and institutional leaders, and residents to chart a path forward. The Net Zero Action Plan was adopted in 2015 and set us on course with prioritized climate programs. This past June, we passed a major milestone with the adoption of an amended Building Energy Use Disclosure Ordinance (BEUDO), which mandates large, non-residential buildings to reduce their greenhouse gas emissions with a net zero requirement by 2035. BEUDO buildings represent ~60% of the City's emissions and this regulation targets a

70% reduction in BEUDO emissions by 2035, representing the most aggressive city goal in the country. As of August 2023, we have also adopted a new Fossil Fuel Free regulation that will restrict fossil fuel use in new construction or major renovations. We have also expanded public electric vehicle charging stations.

This edition of The Cambridge Life will provide an overview of these major initiatives as well as so much of the other climate work that are happening across the City. You'll also learn about what the City is doing to support residents and businesses, how you can make your voice heard, and actions you can take to make a difference – whether that's signing up for Cambridge Community Electricity's 100% renewable electricity program or using the City's free composting program. To learn more about the City's climate work and how you can help, visit www.cambridgema.gov/CDD/climateandenergy for more information. If residents would like to connect with someone in the City about this work, you are encouraged to email climate@cambridgema.gov.

We are at a global inflection point and while I'm proud of the work we have done, there is much more to do. As with all of our work, we will move forward together as a community.

Sincerely,
Yi-An Huang



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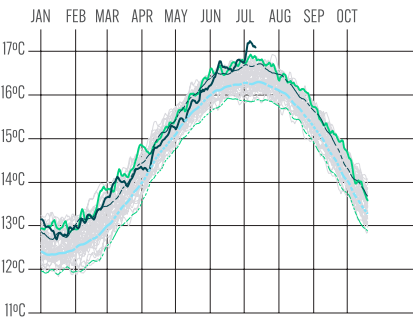


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BY THE NUMBERS: THE IMPACTS OF CLIMATE CHANGE

In 2022, the Intergovernmental Panel on Climate Change (IPCC) issued a global report indicating that greenhouse gas pollution will need to be cut by approximately two-thirds by 2035 in order to avoid the worst impacts of climate change. There are a number of potential impacts to our changing climate.

EXTREME HEAT	SEVERE STORMS & EXTENSIVE FLOODING	IMPLICATIONS FOR PERSONAL HEALTH								
<p>Hottest days on record in early July 2023</p> <hr/> <p>The warmest in at least 100,000 years</p> <hr/> <p>Avg. summer temperatures expected to increase 4° by the 2030s— 3x the number of days each year above 90°F</p> <hr/> <p>By the 2070s, avg. summer temperature is projected to increase by 6 to 10°, could be more than 60 days per year over 90°F</p>	<p>Six Category 4 or 5 hurricanes have made landfall on the US mainland since 2017 — the most ever during a six-year period</p> <hr/> <p>Climate change will lead to increased stormwater flooding</p> <hr/>  <p>Avg. sea level in Boston Harbor is expected to rise steadily in the coming decades: 1.2ft by 2030, 2.4ft by 2050, and 4.2ft by 2070</p>	 <p>Climate change affects the spread of diseases, increases the risk of heat-related illnesses and deaths, and worsens air quality, leading to respiratory problems</p>								
<p>Rising Daily Temperatures Source: Climate Change Institute</p>  <table border="1" data-bbox="135 1673 505 1723"> <tr> <td>— 1979-1980, 1982-2021</td> <td>— 1981</td> <td>— 2022</td> <td>—</td> </tr> <tr> <td>1079-2000 mean</td> <td>Plus 2σ</td> <td>Minus 2σ</td> <td></td> </tr> </table>	— 1979-1980, 1982-2021	— 1981	— 2022	—	1079-2000 mean	Plus 2σ	Minus 2σ		<p>The City's projections show that if a very large storm hit, surge flooding could reach Cambridge as early as 2045</p> <hr/>  <p>Without action, the ocean waters would push up the Charles River and the Mystic River and Alewife Brook, reaching Cambridge and flooding streets and properties</p>	 <p>Vulnerable populations, such as children, the elderly, and marginalized communities, are particularly at risk</p>
— 1979-1980, 1982-2021	— 1981	— 2022	—							
1079-2000 mean	Plus 2σ	Minus 2σ								

These statistics and information begins to underscore the urgency for collective action to mitigate and adapt to climate change and highlight the need for sustainable practices and policies to protect the planet and future generations. * **Read More in Resilient City, Resilient People Report**

AGGRESSIVE CITY GOALS

The City has set aggressive goals and implemented a series of actions in order to reduce greenhouse gas (GHG) emissions to a) prevent climate change from worsening b) and address the inevitable impacts of climate change that we are already experiencing in order to improve the health and resilience of the community. Those goals revolve around reducing emissions from key sectors such as buildings, transportation, waste reduction, renewable electricity supply and other areas.



GREENHOUSE GAS EMISSIONS

NET ZERO ACTION PLAN

Identifies a phased set of actions to reduce greenhouse gas emissions from new and existing buildings by 2050. This plan provides a roadmap to address emissions from all buildings in Cambridge, including specific actions to reduce emissions such as retrofitting existing buildings with energy-efficient technologies, promoting renewable energy sources, and implementing building codes that prioritize energy efficiency. A NZAP dashboard provides a clear overview of the progress towards our 2050 goal to be a net zero community. It is available at Cambridgema.gov/netzero.

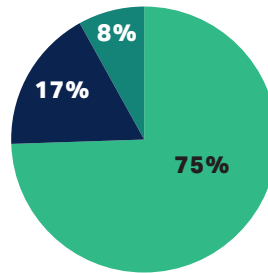
SPECIALIZED STRETCH ENERGY CODE

Requires all new construction and major renovations to buildings in the City to be all-electric or wired to transition to all-electric in the future. The

Specialized Stretch Code focuses on maximizing energy efficiency, reducing heating demands, and promoting efficient electrification. Buildings that use only electricity as an energy source, versus fossil fuels, can eliminate their emissions when the electricity comes from renewable sources.

BUILDING ENERGY USE DISCLOSURE ORDINANCE

- Requires energy and water reporting from commercial properties 25,000 square feet or larger and residential properties 50 or more units.
- Requires non-residential buildings to reduce their greenhouse gas emissions with a net zero requirement by 2035 for large buildings (larger than 100,000 square feet) and 2050 for mid-size buildings (25,000 to 100,000 square feet).



BEUDO 2021 EMISSIONS

- Residential
- Commercial <100,000 sq ft
- Commercial >100,000 sq ft

FOSSIL FUEL FREE DEMONSTRATION PROGRAM

Requires new buildings built in Cambridge and major renovations of existing buildings – such as homes, residential buildings, and commercial buildings – to be fossil fuel free by using all-electric systems rather than oil and natural gas.



HEAT STRATEGIES

- Increase our tree canopy by planting new trees and curbing the loss of existing trees.

- Enhance access to open space and healthy air quality, add more park shade structures, and increase ground and roof vegetated areas.
- Engage with Eversource and the Massachusetts Public Utilities Commission to increase the resiliency of the electricity distribution system.
- Closely coordinate with local, state, and federal agencies to ensure that there is a significant emphasis on water conservation to ensure supply is available during droughts.



TRANSPORTATION

NET ZERO TRANSPORTATION PLAN

Develop a Net Zero Transportation Plan (NZTP) to remove greenhouse gas emissions from transportation in Cambridge. This process aims to include many voices—especially those who have been underheard, undeserved, and historically excluded in the past. Staff will listen to the mobility challenges that impact community members and solicit ideas for how to improve mobility for all in the City. Advisory Group members will learn about transportation issues that lead to climate change. In the end, we will co-create a plan together that eliminates transportation emissions and improves mobility.

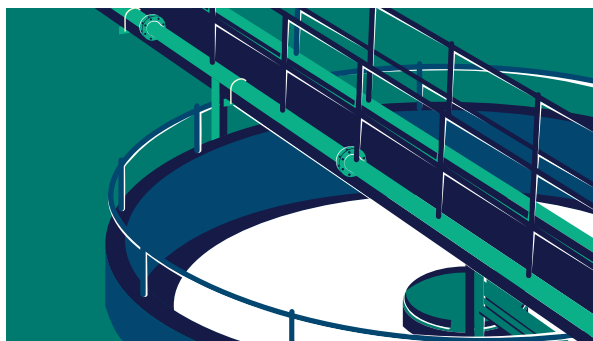
BETTER STREETS AND PATHWAYS

- Help provide safer facilities for people walking and biking and supporting transit through redesigning our streets. In recent years, several miles of separated bike lanes have been installed along Mass Ave, Garden Street, Cambridge Street and other corridors facilitating safer riding for cyclists and giving priority to buses. The Cambridge Watertown Greenway was completed last year and offers

a paved path connecting the two cities, and projects like the Grand Junction Path, Linear Park Redesign, and Danehy-New Street Connector Path, are bringing even more shared-use paths for active transportation users in the coming years. The City also aims to install more than 150 bike parking racks every year to allow for ample bike parking, and new types of bus stops and bus stop amenities offer a more comfortable experience for transit users.

ELECTRIFYING VEHICLES

- Make significant strides to electrify city's fleet by adding more fully electric vehicles.
- Invest in Electric Vehicle (EV) infrastructure by installing more publicly accessible chargers throughout the city and launch Electric Vehicle Charging Pilot program.
- Install public EV charging for 100 vehicles over the next five years in city parking lots and streets and undertake a pilot to allow charging across sidewalks in order to make it easier for people who live and work in Cambridge to own less-polluting vehicles.



STRONGER INFRASTRUCTURE

- Increase stormwater storage, building green infrastructure, and continuing sewer separation projects.
- Improve stormwater infrastructure improvements with a goal of managing flooding from significant storms today and in the future.
- Address climate change through various waste reduction programs, including trash, recycling, yard waste collection, and special collections.

BUILDINGS ARE AT CENTER OF CAMBRIDGE'S CLIMATE CHANGE PREVENTION EFFORTS

The majority of Cambridge's GHG emissions come from buildings, particularly the largest buildings throughout the community.

Shifting both new and existing buildings from using fossil fuels to using renewable electricity will eliminate their emissions, and the City is leading by example.

The recently amended Building Energy Use Disclosure Ordinance (BEUDO), updated Net Zero Action Plan, and Fossil Fuel Free Demonstration Program provide a roadmap and set ambitious goals to address emissions from all buildings in Cambridge and track progress.

The Intergovernmental Panel on Climate Change (IPCC) released its Sixth Assessment Report on March 20, 2023. The report details the devastating consequences of rising greenhouse gas emissions around the world and the increasingly dangerous and irreversible risks should we fail to change course. But the IPCC also offers hope, highlighting pathways to avoid these intensifying risks. In Cambridge, we are working to shift both new and existing buildings off fossil fuels and onto renewable electricity sources to eliminate their emissions. We are also working on expanding and creating new programs and policies that focus on reducing greenhouse gas emissions, scaling up carbon removal, and building resilience.



Requirements Target Large Building Greenhouse Gas Emissions

In June, the City of Cambridge became the first known city in the country to mandate non-residential buildings to reduce their greenhouse gas emissions with a net zero requirement by 2035 for large buildings and 2050 for mid-size buildings. More than two years in the making, this was the latest milestone of many for the City under the Building Energy Use Disclosure Ordinance (BEUDO), which was first enacted by the Cambridge City Council in 2014 and requires large buildings to track and report their energy and water use to the City. While Massachusetts and the country have committed to net zero greenhouse gas emissions by 2050, the City of Cambridge has now set a more aggressive initial target of 2035 for large non-residential buildings in the City (100,000 square feet or larger).

More than 300 of the City’s large non-residential buildings will be mandated to achieve net zero by 2035. Building owners must effectively power their buildings with renewable energy -- either by investing in solar panels, geothermal, other onsite clean energy solutions or purchasing clean, renewable energy – and eliminate fossil fuel use in order to reach Net Zero. With the adoption of these newest amendments to the Building Energy Use Disclosure Ordinance, Cambridge’s BEUDO emissions will be reduced approximately 50 percent by 2030 compared to today and reduced by approximately 70 percent by 2035, leaving a small amount of emissions beyond 2040.

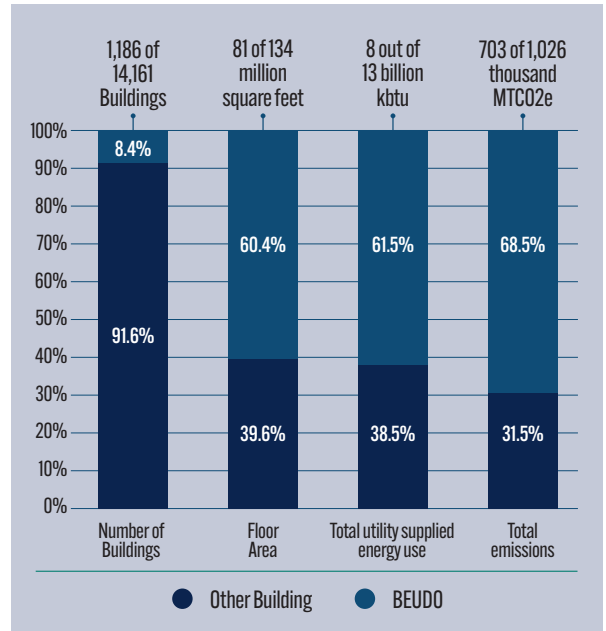
“The BEUDO emissions reduction mandates are the single most impactful piece of climate mitigation legislation that the City of Cambridge has ever adopted,” said Iram Farooq, Assistant City Manager of the Community Development Department. “These mandates signal a strong desire by the City to remain at the forefront of climate change.”

The Net Zero Task Force, the Cambridge Climate Committee, and the Climate Crisis Working Group urged the prompt advancement of stronger BEUDO performance requirements.

To provide support for building owners to navigate these regulations, the City has committed \$2

million towards a technical assistance fund. The City is also committed to making renewable electricity widely available to property owners and working closely with Eversource and other utilities to ensure that the necessary infrastructure is in place to meet our climate goals. This includes access to renewable electricity through the City’s Community Electricity program.

With BEUDO, there is an ongoing, coordinated effort to reduce the worst impacts of climate change and slow the pace of global warming.



Robust Plans to Guide Climate Change Actions and Measure Progress

BEUDO is one of many community actions we are taking that are guided by the Net Zero Action Plan (NZAP) for buildings. The NZAP is the City’s roadmap to eliminating greenhouse gas emissions from all Cambridge buildings by 2050. It includes specific actions to reduce emissions, such as retrofitting existing buildings with energy-efficient technologies, promoting renewable energy sources, and implementing building codes that prioritize energy efficiency. The plan, which was most recently updated in January 2023, also addressed equity concerns to ensure that benefits are equitably distributed among all members of the community. A publicly available NZAP dashboard provides a clear overview of the progress towards our 2050 goal to be a net-zero community.

FOSSIL FUEL FREE DEMONSTRATION PROGRAM

Another community action we are pursuing is a first-of-its-kind Fossil Fuel Free Demonstration Program. We sat down with Susanne Rasmussen, Director of Environmental and Transportation Planning at the Cambridge Community Development Department to learn more about this new program.



Q: What is the Fossil Fuel Free Demonstration Program?

A: Cambridge is one of 10 communities in Massachusetts that has been authorized to participate in a Fossil Fuel Free Demonstration Program pilot. If approved, it would require new buildings built in Cambridge and major renovations of existing buildings – such as homes, residential buildings, and commercial buildings – to be fossil fuel free by using all-electric systems rather than oil and natural gas that many buildings use for heating, cooling and cooking. Labs, hospitals and medical offices are exempt.

Q: Why is it important?

A: Making new buildings and major renovations (commonly 50 percent or more of a building's floor area) in Cambridge fossil fuel-free would result in healthier air – both indoors and outdoors -- and continued progress towards our climate goals. Examples of heating, cooling and cooking appliances that are fossil fuel free include heat pumps, solar water heaters, and induction cooktops.

Alongside the City, the Massachusetts Department of Energy Resources will collect building permit data to evaluate program impacts.

Q: If approved, how is Cambridge going to help residents, businesses and institutions?

A: Through the Cambridge Energy Alliance (CEA), the City of Cambridge offers a valuable service to help residents, businesses, and institutions become more energy efficient and access renewable energy services. Staff at the CEA can connect residents, businesses and institutions to technical support, no-cost energy assessments, financing options, and educational resources.

Q: What is the timeline for the project?

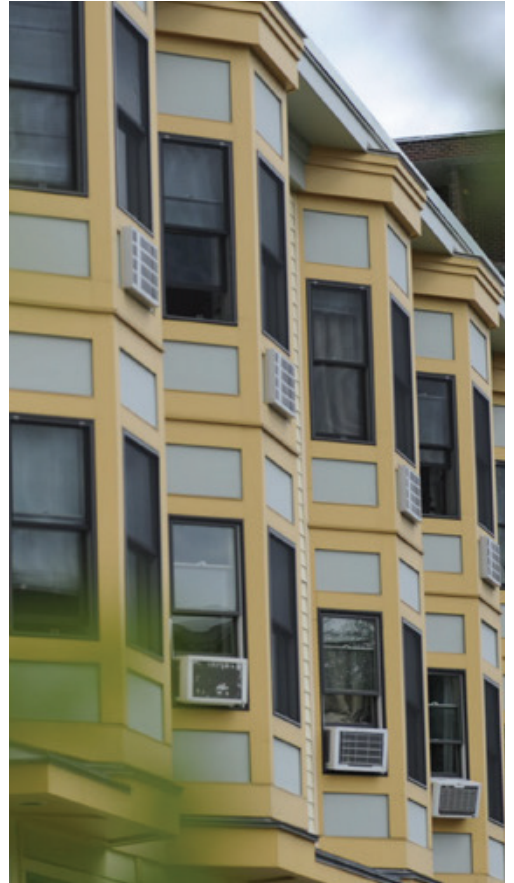
A: Following a community engagement process that included webinars, an online survey and marketing outreach, and hearings, the final ordinance and plan was submitted to the City Council and approved in early August 2023. With its approval, participating cities and towns will have to ordain the fossil fuel-free requirements by July 2024.

To learn more about the program and follow progress, you can visit the Cambridge Community Development Department's "Sustainable Development" website at: www.cambridgema.gov/fossilfuelfree



NEW PARTNERSHIP TO HELP UPGRADE MULTIFAMILY BUILDINGS

Cambridge has launched a pilot partnership with BlocPower to help multifamily buildings complete energy efficiency and all-electric upgrades that can save energy, improve building comfort, and support Cambridge's climate goals. BlocPower is a national climate technology company that offers building retrofits and financing for the upgrades, including insulation, solar, and all-electric heating and cooling systems. This pilot will allow interested buildings to finance and complete retrofits that would otherwise require significant upfront investment and contractor management. These upgrades will reduce fossil-fuel use and help decarbonize Cambridge's buildings, while providing an innovative model for overcoming common retrofit barriers. The one-year pilot will focus on multifamily buildings of five or more units. Learn more about this pilot, and other energy efficiency and renewable energy services at CambridgeEnergyAlliance.org



ELECTRIFY CAMBRIDGE TO SUPPORT RESIDENTS WITH CLEAN, ALL-ELECTRIC HOME UPGRADES AND DECARBONIZATION PLANS



This summer, the City of Cambridge launched Electrify Cambridge, a new program to support Cambridge residents with a wide range of clean, green, and all-electric home energy upgrades.

Electrify Cambridge provides no-cost advising by technical specialists on all measures that can electrify a home or residential building. Those measures include heat pumps, solar panels, weatherization, water heaters, induction stoves, electric vehicle chargers, and more.

Switching away from fossil fuels to clean, all-electric systems for our buildings is critical to achieving our climate goals, and Electrify Cambridge is designed to help decarbonize our buildings.

Residents can participate in this program by calling the Cambridge Energy Helpline at 617-430-6230 or visiting cambridgema.gov/electrify and will be able to schedule a free consultation with an Electrify Cambridge specialist at their convenience.

CAMBRIDGE ADOPTS CLIMATE RESILIENCE ZONING AMENDMENT

Earlier this year, the Cambridge City Council adopted new zoning requirements to address the impacts of increased flooding and increased heat over time as a result of climate change.

The new requirements take an innovative, forward-looking approach to setting climate resilience standards for buildings and landscaping. These standards are based on:

- Models of Cambridge's climate 50 years from now, updated on a regular basis according to scientific studies.
- Measures that will reduce impacts of extreme weather events.
- Using both requirements and incentives for property owners and developers to make their sites more resilient to benefit the future community.
- New standards will require buildings to be designed to protect vulnerable spaces that have a likelihood of future flooding. They will also require sites to meet a "Cool Score" by including features like shade trees, plantings, green roofs, canopies, and cool pavements.
- The new standards will apply to large development projects and to smaller newly-constructed buildings, but not to most renovations or minor alterations. In some cases, they will apply to finished basement space or new parking. The new zoning also makes it easier to install features like shaded porches, solar canopies, elevated steps and ramps, and usable green roofs, which promote resilience.

25 YEARS OF SEWER AND STORMWATER INFRASTRUCTURE INVESTMENTS BETTER PREPARES CITY FOR IMPACTS OF CLIMATE CHANGE



For over 25 years, the City has implemented programs to address stormwater runoff.

Adapting to climate change requires the use of important tools such as stormwater management.

Green infrastructure not only mitigates floods but also improves water quality.

Stormwater management is an important consideration for the City of Cambridge as it adapts to climate change. The City's large amounts of impervious cover, such as paved streets and rooftops, means that rain does not always soak into the ground, but may flow over land and into local waterways, potentially causing pollution and flooding.

To address these concerns, the city has invested over \$500 million in sewer and stormwater infrastructure over the past 25 years and has developed programs to address both the volume and quality of stormwater runoff. These strategies include increasing stormwater storage, building green infrastructure, and continuing sewer separation projects. The City has built underground stormwater storage systems, is actively building more, and is evaluating street reconstruction projects and private redevelopment activities for opportunities to implement green infrastructure. The City is also collaborating with other organizations to develop plans that manage and potentially eliminate combined sewer overflows based on future climate projections.

JOURNEY TOWARDS A GREENER TRANSPORTATION SYSTEM

Cambridge promotes sustainable transportation through education, community workshops, planning, and infrastructure projects.

Resident volunteers can provide input on transportation projects.

The City is investing in Electric Vehicle infrastructure and adding more fully electric vehicles to its fleet.



To eliminate greenhouse gas emissions from the transportation sector by 2050, the City is developing a Net Zero Transportation Plan (NZTP). The NZTP, which is expected to be completed by summer 2024, will pilot a transformative approach to equitable and inclusive engagement to create a mode shift and electrification plan that addresses the needs of all community members, particularly those who have been underheard and underserved. In the interim, the City of Cambridge is promoting the use of sustainable transportation through education, community workshops, and infrastructure projects.

City staff organize about 25 bike workshops/rides annually on bike maintenance, urban cycling, family and winter riding, as well as classes for 2nd and 6th graders in Cambridge Public Schools. The Healthy Aging and Cycling program offers a fitness and group ride series for older adults, and the Safe Routes to School program ensures that every 2nd grader receives pedestrian safety education and every 6th grader receives a cycling course. The City's Pedestrian, Bicycle, and Transit Committees are made up of resident volunteers who provide input on transportation projects.

In recent years, several miles of separated and protected bike lanes have been installed, and new trail projects like the Grand Junction Path

and Danehy-New Street Connector are being developed. The City aims to install 150 bike parking racks annually and new types of bus stops and new types of bus stops and amenities for transit users.

Finally, the City is adding more electric and plug-in hybrid vehicles to its municipal fleet, including the first two fully electric rubbish packers on order. In 2022, the City launched an anti-idling campaign focused on eliminating unnecessary idling to help reduce GHG emissions from the municipal fleet. These additional efforts are important steps towards sustainable transportation and reducing carbon emissions in the city. Learn more at:

Cambridgema.gov/transportation

CREATING ELECTRIC VEHICLE INFRASTRUCTURE

The City recognizes the importance of and is heavily investing in Electric Vehicle (EV) infrastructure. Creating less greenhouse gas emissions and air pollution than traditional gasoline-fueled vehicles, EV drivers benefit from better fuel economy and financial incentives and contribute to cleaner air and better health for the community. As of January 2023, there were over 5,000 EVs registered in Cambridge.

To accommodate this, publicly accessible chargers have been installed throughout the City. In 2022, over 45,000 hours of charging occurred at city-owned charging stations. The City continues to install additional charging stations in high demand areas.

To supplement these efforts, the City recently announced a new Electric Vehicle Charging Pilot Program that will allow the charging of electric vehicles across City sidewalks. The new charging pilot program provides residents without driveway access the opportunity to charge EVs across the public sidewalk from a protected and private ground floor outdoor outlet.

To apply for a new Across Sidewalk Electric Vehicle Charging permit, recommend charging locations, learn about incentives for purchasing an electric vehicle, or view a list of City-owned charging stations, visit Cambridgema.gov/evchargingstations

CAMBRIDGE WASTE REDUCTION PROGRAMS HELP FIGHT CLIMATE CHANGE TOGETHER WE CAN CONTINUE TO REDUCE WASTE IN OUR TRASH

The City is working to reduce our community's impact on the environment through waste reduction programs.

The City collects and recycles more than 9,000 tons of materials annually.

By stopping food waste from going to a landfill, we prevent greenhouse gas emissions.

The City's Department of Public Works (DPW) Recycle Division is committed to addressing climate change through its various waste reduction programs. In 2022, the City reduced trash by 7% compared to the prior year, the largest decrease in trash since 2010. The DPW also collects and recycles more than 9,000 tons of plastic, aluminum/tin, paper, and glass annually, thus reducing the demand for cutting down trees, oil refining, and mining.



Yard waste collection is also an important aspect of the City's efforts to protect its waterways. Leaves and twigs that are collected are converted into rich soil that can be used to offset the demand for fossil-fuel based fertilizers, which in turn is used in new tree plantings in Cambridge. The City collects 2,000 tons of yard waste annually which helps reduce the amount of nutrients that end up in the storm drains, ultimately benefiting the wildlife in the Charles River.

In addition to yard waste collection, the City also focuses on composting food waste as a key tool in fighting climate change. The City collects about 2,000 tons of food waste annually. This waste is anaerobically digested, a process which uses microorganisms to convert food waste into methane. The methane is captured and used to create clean energy, reducing the demand for fossil fuels. By stopping food waste from going to a landfill, we prevent it from rotting and releasing greenhouse gas emissions.

Lastly, the City also recycles more than 500 tons of scrap metal, textiles, electronic waste, mattresses, and plastic bags through special collections. In 2022, the City recycled 148 tons of metal, 87 tons of electronic waste, and 162 tons of textiles. All of these efforts combined have a meaningful impact on reducing the City's impact on the environment, and are a step towards a more sustainable future.

In 2022, the City reduced trash by 7% compared to the prior year, the largest decrease in trash since 2010

The DPW also collects and recycles more than 9,000 tons of plastic, aluminum/tin, paper, and glass annually and about 2,000 tons of food waste annually

The City also recycles more than 500 tons of scrap metal, textiles, electronic waste, mattresses, and plastic bags through special collections

← The City gives away finished compost from the Yard Waste program to residents annually.

CITY'S URBAN FORESTRY EFFORTS ARE MAKING CAMBRIDGE A GREENER AND MORE RESILIENT COMMUNITY

The City has significantly increased the number of trees it plants annually.

The City collects and recycles more than 9,000 tons of materials annually.

By stopping food waste from going to a landfill, we prevent greenhouse gas emissions.

In January 2023, the City of Cambridge released the 2020 Canopy Assessment completed by the University of Vermont, which shows that the implementation of the Urban Forestry Master Plan is improving our tree canopy. Building canopy is a slow and steady race, but we are seeing substantive progress. The investments in tree plantings and maintenance combined with tree preservation initiatives are reversing the loss of tree canopy. **In 2022, the City planted 1,385 trees (837 street trees and 550 open space trees).**

Since being completed in 2020, the Urban Forestry Master Plan has led the efforts of the Urban Forestry Division and staff across the City. The Plan includes **a 9-Step Action Plan with key strategies for increasing our canopy** by curbing the loss of existing trees and growing canopy. The strategies include **implementing a soil management plan, increasing the number of trees planted annually, implementing the Tree Protection Ordinance, and making more space for trees.** The City has invested in the Urban Forestry Division to support the work of implementing the plan. This has allowed the City to significantly increase the number of trees planted annually, with an eye to the **2025 goal of planting 1,000 street trees.**

All of Cambridge's neighborhoods saw net gains in tree canopy between 2018 and 2020. The City is committed to continuing building on the efforts to



increase canopy and implementing the Action Plan of the Urban Forest Master Plan. In 2025, the City will update the Healthy Forest – Healthy City Report and evaluate progress towards neighborhood canopy goals for both privately owned trees and City trees.

2025 goal: Plant 1,000 street trees

In 2022, the City planted 837 street trees

In 2021 and 2022, the City planted two Miyawaki Forests – one in Danhey Park and another in Greene-Rose Heritage Park. A Miyawaki Forest is uniquely dense multilayer forest coined by the late Akira Miyawaki and boost the biodiversity of the area and nurture pollinators, supporting and restoring ecosystems.

WHAT RESIDENTS AND BUILDING OWNERS CAN DO:

You can help address climate change by participating in the City’s programs to reduce or eliminate your use of fossil fuels and support clean, renewable energy. Use this table to identify the programs that are right for your home or building! To access all of these programs and services, please call **617-430-6230** or visit www.cambridgeenergyalliance.org.

TYPE OF BUILDING	PROGRAM	ABOUT PROGRAM
1-4 UNIT BUILDING RENTERS, HOME-OWNERS, & LANDLORDS	Energy efficiency programs	MASS SAVE® RESIDENTIAL ENERGY ASSESSMENTS Every unit can receive a no-cost energy assessment & no-cost/discount energy saving improvements
	Renewable energy programs	ENERGY SAGE ROOFTOP SOLAR MARKETPLACE Get free quotes on rooftop solar & shop for community solar
	Clean heating & cooling programs	ELECTRIFY CAMBRIDGE Set a plan for your building to eliminate fossil fuels over time or get help picking new all-electric equipment
5+ UNIT CONDO-OWNERS, LANDLORDS, & PROPERTY MANAGERS	Energy efficiency programs	MASS SAVE® WHOLE BUILDING ENERGY ASSESSMENTS Every building can receive no-cost energy assessment & no-cost/discount energy saving improvements
	Clean heating & cooling programs	ELECTRIFY CAMBRIDGE Set a plan for your building to eliminate fossil fuels over time or get help picking new all-electric equipment BLOCPower Get the fossil fuels out of your building with no upfront costs
INCOME-ELIGIBLE RESIDENTS	Energy efficiency programs	MASS SAVE® INCOME ELIGIBLE ENERGY ASSESSMENTS Every income-qualified unit can receive no-cost energy assessment & may qualify for no-cost upgrades
	Lower your utility bills programs	ENERGY SAGE COMMUNITY SOLAR Save up to 20% on your electricity supply cost, risk-free without installing any equipment
		FUEL ASSISTANCE Winter assistance paying your heating bills EVERSOURCE DISCOUNTED RATE Discounted electricity delivery rate from Eversource
ALL RESIDENTS AND BUILDING OWNERS	Energy efficiency programs	MASS SAVE® DISCOUNTED ENERGY EFFICIENT PRODUCTS MARKETPLACE Shop for discounted energy saving products
	Renewable energy programs	CAMBRIDGE COMMUNITY ELECTRICITY 100% GREEN PLUS 100% renewable electricity through city program
	Lower your utility bills programs	ENERGYSAGE COMMUNITY SOLAR Save up to 10% on your electricity supply cost, risk-free without installing any equipment CAMBRIDGE COMMUNITY ELECTRICITY STANDARD GREEN Lowest rate for electricity in MA* through City program *future savings cannot be guaranteed

NEIGHBORHOOD ENERGY SOURCE: THE PORT MICROGRID

The City is working with community members on a pilot microgrid in The Port to provide a clean, reliable local energy source. A microgrid is a local and resilient energy system that provides electricity for participating buildings and, in case of emergency or extreme weather, can disconnect from the grid and prevent power loss by using local sources of generation like solar panels and battery energy storage systems. In The Port, we're focusing on critical facilities and places like houses of worship to provide clean, resilient energy systems and better prepare our community for the impacts of climate change. Learn more at: CambridgeEnergyAlliance.org/microgrids



DID YOU KNOW?

As a result of a **City Lighting Study** by the **Electrical Department** and the **Community Development Department**, it was determined that there was an opportunity for the city to have greater energy efficiency and light quality. LED fixtures have provided an option for the City to save money and reduce greenhouse gas emissions. Nearly all street, park, and decorative lights have been replaced with LED fixtures. The City previously converted all of its traffic and pedestrian signals to LED technology which has resulted in significant cost savings and environmental benefits. In fact, the current streetlighting system **consumes less than 25% of the energy of the prior streetlights**, which is **saving the city an estimated \$500,000 per year in electricity costs** and allowing the city to meet carbon footprint reduction goals.

SPANISH

LO MÁS DESTACADO EN ESTA EDICIÓN DE THE CAMBRIDGE LIFE

MENSAJE DEL GESTOR MUNICIPAL

- El cambio climático está afectando a nuestra vida y es una prioridad para la ciudad.
- Como comunidad, debemos actuar con urgencia y determinación para tratar de abordar este trabajo crítico.
- Como responsables de este trabajo, hemos establecido objetivos ambiciosos y daremos a toda la comunidad la oportunidad de desempeñar un papel importante.

LOS EDIFICIOS SON UNA PRIORIDAD EN LO QUE RESPECTA A LOS OBJETIVOS DE REDUCCIÓN DE LOS GEI DE CAMBRIDGE

- La mayoría de las emisiones de GEI de Cambridge provienen de los edificios, particularmente de los más grandes de la comunidad.
- Hacer que tanto los edificios nuevos como los existentes usen fuentes de electricidad renovables en vez de combustibles fósiles eliminará las emisiones. Además, la ciudad sirve de ejemplo.
- La recientemente modificada Ordenanza de divulgación del uso de la energía en los edificios (BEUDO), el Plan de acciones cero neto actualizado y el Programa de demostración sin combustibles fósiles ofrecen una hoja de ruta y establecen objetivos ambiciosos para abordar las emisiones de todos los edificios de Cambridge y hacer seguimiento de cualquier progreso.

HACIA UN SISTEMA DE TRANSPORTE MÁS VERDE

- Cambridge promueve el transporte sostenible con educación, talleres comunitarios, planificación y proyectos de infraestructuras.
- Los voluntarios residentes pueden aportar a los proyectos del transporte.
- La ciudad está invirtiendo en una infraestructura de vehículos eléctricos y añadiendo más vehículos totalmente eléctricos a su flota.

LOS PROGRAMAS DE REDUCCIÓN DE RESIDUOS DE CAMBRIDGE AYUDAN A LUCHAR CONTRA EL CAMBIO CLIMÁTICO

- La ciudad está trabajando para reducir el impacto de nuestra comunidad en el medioambiente con programas de reducción de residuos.

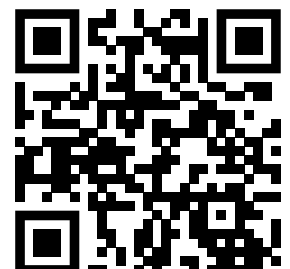
- La ciudad recoge y recicla más de 9000 toneladas de materiales al año.
- Al impedir que los residuos alimentarios acaben en un vertedero, evitamos las emisiones de gases de efecto invernadero.

25 AÑOS INVIRTIENDO EN INFRAESTRUCTURAS PARA EL ALCANTARILLADO Y LAS AGUAS PLUVIALES HACE QUE LA CIUDAD ESTÉ MEJOR PREPARADA ANTE LOS IMPACTOS DEL CAMBIO CLIMÁTICO

- La ciudad lleva más de 25 años implementando programas para abordar las escorrentías de las aguas pluviales.
- La adaptación al cambio climático requiere usar herramientas importantes, como la gestión de las aguas pluviales.
- La infraestructura verde no solo mitiga las inundaciones, sino que también mejora la calidad del agua.

LOS ESFUERZOS FORESTALES URBANOS DE LA CIUDAD HACEN QUE CAMBRIDGE SEA UNA COMUNIDAD MÁS VERDE Y RESISTENTE

- La ciudad ha aumentado considerablemente la cantidad de árboles que planta cada año.
- En todos los vecindarios de Cambridge, el dosel de árboles registró ganancias netas entre 2018 y 2020.
- Cambridge plantó su segundo bosque Miyawaki en Greene-Rose Heritage Park, en el barrio de Port.



PORTUGUESE

DESTAQUES EM ESSA EDIÇÃO DA THE CAMBRIDGE LIFE

MENSAGEM DO DIRETOR MUNICIPAL

- As alterações climáticas estão a afetar as nossas vidas e são uma prioridade máxima para a cidade.
- Enquanto comunidade, temos de agir com urgência e determinação para abordar este trabalho crítico.
- Como líder neste trabalho, estabelecemos objetivos ambiciosos e temos oportunidades para que todos na comunidade desempenhem um papel valioso.

OS EDIFÍCIOS ESTÃO NO CENTRO DOS OBJETIVOS DE REDUÇÃO DE GEE DE CAMBRIDGE

- A maioria das emissões de GEE de Cambridge provém de edifícios, especialmente dos maiores edifícios da comunidade.
- A substituição de combustíveis fósseis por fontes de eletricidade renováveis em edifícios novos e existentes eliminará as suas emissões, e a cidade está a dar o exemplo.
- O Building Energy Use Disclosure Ordinance (BEUDO) (Portaria de Divulgação da Utilização de Energia nos Edifícios), recentemente alterado, o Net Zero Action Plan (Plano de Ação Net Zero) atualizado e o Fossil Fuel Free Demonstration Program (Programa de Demonstração sem Combustíveis Fósseis) fornecem um roteiro e estabelecem metas ambiciosas para lidar com as emissões de todos os edifícios em Cambridge e acompanhar o progresso.

RUMO A UM SISTEMA DE TRANSPORTES MAIS ECOLÓGICO

- Cambridge promove o transporte sustentável através da educação, workshops comunitários, planeamento e projetos de infraestruturas.
- Os moradores voluntários podem dar o seu contributo relativamente aos projetos de transporte.
- A cidade está a investir em infraestruturas para veículos elétricos e a adicionar mais veículos totalmente elétricos à sua frota.

PROGRAMAS DE REDUÇÃO DE RESÍDUOS DE CAMBRIDGE AJUDAM A COMBATER AS ALTERAÇÕES CLIMÁTICAS

- A cidade recolhe e recicla mais de 9000 toneladas de materiais por ano.

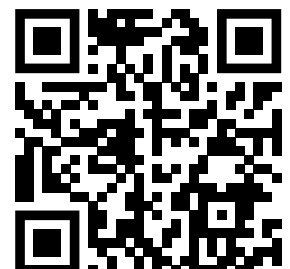
- A cidade está a trabalhar para reduzir o impacto da nossa comunidade no ambiente através de programas de redução de resíduos.
- Ao impedir que os resíduos alimentares sejam depositados em aterros, evitamos as emissões de gases com efeito de estufa (GEE).

25 ANOS DE INVESTIMENTOS EM INFRAESTRUTURAS DE ESGOTOS E ÁGUAS PLUVIAIS PREPARAM MELHOR A CIDADE PARA OS IMPACTOS DAS ALTERAÇÕES CLIMÁTICAS

- Durante mais de 25 anos, a cidade implementou programas para lidar com o escoamento de águas pluviais.
- A adaptação às alterações climáticas exige a utilização de ferramentas importantes, como a gestão das águas pluviais.
- As infraestruturas verdes não só atenuam as inundações, como também melhoram a qualidade da água.

OS ESFORÇOS DE SILVICULTURA URBANA DA CIDADE ESTÃO A FAZER DE CAMBRIDGE UMA COMUNIDADE MAIS VERDE E MAIS RESILIENTE

- A cidade aumentou significativamente o número de árvores que planta anualmente.
- Todos os bairros de Cambridge registaram ganhos líquidos na cobertura arbórea entre 2018 e 2020.
- Cambridge plantou a sua segunda Floresta Miyawaki no Greene-Rose Heritage Park, no bairro de Port.



**HAITIAN
CREOLE**

PWEN ESANSYÈL NAN EDISYON CAMBRIDGE LIFE SA A

MESAJ DIREKTÈ MINISIPAL LA

- Chanjman klimatik ap afekte lavi nou epi li se yon pi gwo priyorite pou Vil la.
- Antanke kominote, nou bezwen ajè ann ijans epi rezoud travay enpòtan sa a.
- Antanke lidè nan travay sa a, nou te fikse gwo objektif epi nou gen opòtinite pou tout moun nan kominote a jwe yon wòl enpòtan.

BILDING YO NAN SANT OBJEKTIF REDIKSYON GES (GAZ À EFFET DE SERRE) CAMBRIDGE YO

- Majorite emisyon GES Cambridge yo soti nan bilding, sitou pi gwo bilding nan tout kominote a.
- Retire ni bilding nouvo ni bilding ki deja egziste nan konbistib fosil pou pase nan sous elektrisite renouvlab pral elimine emisyon yo, epi vil la ap bay egzanp.
- Òdonans pou divilgasyon itilizasyon enèji batiman yo (BEUDO) ki te amande dènyèman, Plan aksyon zewo kabòn, ak Pwogram demonstrasyon zewo konbistib fosil bay yon plan epi fikse gwo objektif pou adrese emisyon ki soti nan tout bilding nan Cambridge epi suiv pwogrè yo.

VWAYAJ POU RIVE NAN YON SISTÈM TRANSPÒ KI PI VÈT

- Cambridge ankouraje transpò dirab atravè edikasyon, atelye kominotè, planifikasyon, ak pwojè enfrastrikti.
- Volontè rezidan yo ka bay opinyon yo sou pwojè transpò yo.
- Vil la ap envesti nan enfrastrikti veyikil elektrik epi ajoute machin ki pi elektrik nan flòt li a.

PWOGRAM REDIKSYON DECHÈ CAMBRIDGE LA EDE KONBAT CHANJMAN KLIMATIK

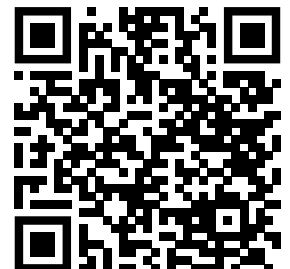
- Vil la ap travay pou diminye enpak kominote nou sou anviwònman an atravè pwogram rediksyon dechè yo.
- Vil la kolekte ak resikle plis pase 9,000 tòn materyèl chak ane.
- Lè nou anpeche dechè manje ale nan yon dechaj, nou anpeche emisyon "gaz à effet de serre".

25 ANE ENVESTISMAN NAN ENFRASTRIKTI DLO EGOU AK DLO LAPLI PI BYEN PREPARE VIL LA POU ENPAK CHANJMAN KLIMATIK

- Pandan plis pase 25 ane, vil la te mete sou pye pwogram pou pale sou ekoulman dlo lapli.
- Adapte a chanjman nan klima mande pou itilize zouti enpòtan tankou jesyon dlo lapli.
- Enfrastrikti vèt pa sèlman diminye inondasyon, men tou amelyore kalite dlo.

EFÒ POU GEN FORÈ NAN VIL LA AP FÈ CAMBRIDGE VIN YON KOMINOTE KI PI VÈT E KI PI REZISTAN

- Vil la te ogmante anpil kantite pyebwa li plante chak ane.
- Tout katye Cambridge yo te wè pwogrè nèt nan kantite pyebwa yo ant 2018 ak 2020.
- Cambridge te plante dezyèm forè Miyawaki li nan Green-Rose Heritage Park nan katye Port.



AMHARIC | በዚህ CAMBRIDGE LIFE ጉዳይ ውስጥ ያሉ ዋና ዋና ነጥቦች

የከተማ አስተዳዳሪ መልዕክት

- የአየር ንብረት ለውጥ በሕይወታችን ላይ ተጽዕኖ እያሳደረ ነው እናም ለከተማው ቅድሚያ የሚሰጠው ጉዳይ ነው ።
- እንደ ማህበረሰብ፣ ደህንን አደገኛ ሁኔታ ለመቅረፍ በአስቸኳይ እርምጃ መውሰድ እና ቁርጥ ውሳኔ ማድረግ አለብን ።
- በዚህ ሥራ ውስጥ እንደ መሪ፣ ሰፊ ያሉ ግቦችን አውጥተናል እናም በማህበረሰቡ ውስጥ ያሉ ሁሉም ጠቃሚ ሚና ለመጫወት እድሎች አሏቸው ።

ሕንፃዎች በካምብሪጅ የGHH ቅነሳ ግቦች መሃል ላይ ናቸው

- አብዛኛዎቹ የካምብሪጅ የGHH ልቀቶች ከህንፃዎች፣ በተለይም በማህበረሰቡ ውስጥ ካሉት ትላልቅ ሕንፃዎች የመጡ ናቸው
- ሁለቱንም አዲስ እና ነባር ሕንፃዎችን ከቅሪት አካል ነዳጆች ውጪ ማድረግ እና ወደ ታዳሽ የኤሌክትሪክ ምንጮች መቀየር ልቀታቸውን ያስወግዳል፣ እናም ከተማዋ በአርክገብነት እየመራች ነው
- በቅርቡ የተሻሻለው የሕንፃ የኃይል አጠቃቀምን ይፋ የማድረግ ድንጋጌ (BEUDO)፣ የዘመነ የተጣራ ዜሮ የድርጊት መርሃ ግብር እና ከቅሪት አካል ነዳጅ ነፃ ማሳያ ፕሮግራም ፍጥ ካርታ ያቀርባል እና በካምብሪጅ ከሚገኙ ሁሉም ሕንፃዎች የሚለቀቁትን ልቀቶች ለመቅረፍ እና መሻሻሉን ለመከታተል ሰፊ ያሉ ግቦችን ያስቀምጣል።

ገዢ ወደ አረንጓዴ የትራንስፖርት ሥርዓት

- ካምብሪጅ በትምህርት፣ በማህበረሰብ አውደ ጥናቶች፣ በእቅድ እና በመሠረተ ልማት ፕሮጀክቶች ዘላቂ ትራንስፖርትን ያበረታታል ።
- ነፃ ሰጠ ፈቃደኞች በትራንስፖርት ፕሮጀክቶች ላይ ግብዓት ማቅረብ ይችላሉ ።
- ከተማዋ በኤሌክትሪክ ተሽከርካሪ መሠረተ ልማት ላይ እንሸከት በማድረግ እና ተጨማሪ ሙሉ የኤሌክትሪክ ተሽከርካሪዎችን ወደ fleet ዋ በመጨመር ላይ ትገኛለች።

የካምብሪጅ ቆሻሻ ቅነሳ ፕሮግራሞች የአየር ንብረት ለውጥን ለመዋጋት ይረዳሉ

- ከተማዋ በቆሻሻ ቅነሳ መርሃ ግብሮች አማካኝነት ማህበረሰባችን በአካባቢ ላይ የሚያደርሰውን ተፅእኖ ለመቀነስ እየሰራች ነው።
- ከተማዋ በየዓመቱ ከ9,000 ቶን በላይ ቁሳቁሶችን በመሰብሰብ እንደገና ጥቅም ላይ ታውላለች።
- የተበላሽ ምግብ ወደ ቆሻሻ ማጠራቀሚያ እንዲይሄድ በማቆም፣ የግሪንሀውስ ጋዝ ልቀቶችን እንከላከላለን።

የ25 ዓመታት የፍላጎት ማስወገጃ እና የስቶርም ውሃ መሠረተ ልማት እንሸከት መንቶች ከተማዋን ለአየር ንብረት ለውጥ ተጽእኖዎች በተሻለ ሁኔታ ያዘጋጃሉ

- ከ 25 ዓመታት በላይ፣ ከተማዋ የስቶርም ውሃ ፊስትን ለመቅረፍ ፕሮግራሞችን ተግባራዊ አድርጋለች።
- ከአየር ንብረት ለውጥ ጋር መላመድ እንደ የስቶርም ውሃ አያያዝ ያሉ አስፈላጊ መሳሪያዎችን መጠቀም ይጠይቃል።
- አረንጓዴ መሠረተ ልማት ጎርፍ ማቃለል ብቻ ሳይሆን፣ የውሃ ጥራትንም ያሻሽላል ።

የከተማዋ የURBAN FORESTRY EFFORTS ካምብሪጅን አረንጓዴ እና የበለጠ ጠንካራ ማህበረሰብ እያደረጉት ነው

- ከተማዋ በየዓመቱ የምትተክላቸው የዛፎች ቁጥር በከፍተኛ ደረጃ ጨምሯል።
- በ2018 እና 2020 መካከል ሁሉም የካምብሪጅ ሰፈሮች የዛፍ ሽፋን ላይ የተጣራ ትርፍ አይተዋል።
- ካምብሪጅ ሁለተኛውን የሚያዋኪ ዴን በፖርት ሰፈር ውስጥ በግሪን-ሮዝ ሄሪቴጅ ፓርክ ውስጥ ተክሏል።



ARABIC

THE CAMBRIDGE LIFE

العناوين الرئيسية لهذا العدد

رسالة مدير المدينة

- يتطلب التكيف مع تغير المناخ استخدام أدوات مهمة مثل إدارة مياه الأمطار
- لا تخفف البنية التحتية الخضراء من الفيضانات فحسب، بل تعمل أيضًا على تحسين جودة المياه

- يشكّل التغير المناخي، الذي يؤثّر على حياتنا، أولوية قصوى بالنسبة للمدينة
- ويتعيّن علينا، كمجتمع، التصرف على وجه السرعة والعزم للتصدي لهذا العمل الحاسم
- وبصفتنا روادًا في هذا العمل، وضعنا أهدافًا طموحة ولدينا فرص للجميع ليلعبوا دورًا قيّمًا في المجتمع

تجعل جهود الغابات الحضرية في المدينة من كامبريدج مجتمعًا أكثر مراعاة للبيئة وأكثر مرونة

- زادت المدينة بشكل كبير من عدد الأشجار التي تزرعها سنويًا
- وشهدت جميع أحياء كامبريدج مكاسب صافية في التغطية الشجرية بين عامي ٢٠١٨ و ٢٠٢٠
- زرعت كامبريدج غابة مياواكي الثانية في غرين روز بارك التراثي في حي الميناء

تقع المباني في صميم "أهداف كامبريدج للحد من غازات الدفيئة"

- تأتي غالبية انبعاثات غازات الدفيئة في كامبريدج من المباني، ولا سيما أكبر المباني في جميع أنحاء المجتمع
- سيؤدي تحويل كل من المباني الجديدة والقائمة من الوقود الأحفوري إلى مصادر الكهرباء المتجددة إلى القضاء على انبعاثاتها، والمدينة هي مثال يحتذى به
- يوفر قانون الإفصاح عن استخدام طاقة المباني (BEUDO) المعدل مؤخرًا، وخطة العمل الصافية الصفريّة المحدثة، وبرنامج العرض التوضيحي الخالي من الوقود الأحفوري خارطة طريق ويحدد أهدافًا طموحة لمعالجة الانبعاثات من جميع المباني في كامبريدج وتتبع التقدم.

رحلة نحو نظام نقل أكثر مراعاة للبيئة

- تعزز كامبريدج النقل المستدام من خلال التعليم وورش العمل المجتمعية والتخطيط ومشاريع البنية التحتية
- يمكن للمتطوعين المقيمين تقديم أفكارهم بخصوص مشاريع النقل
- تستثمر المدينة في البنية التحتية للمركبات الكهربائية وتضيف المزيد من المركبات الكهربائية بالكامل إلى أسطولها

تساعد برامج كامبريدج للحد من النفايات في مكافحة تغير المناخ

- تعمل المدينة على الحد من تأثير مجتمعنا على البيئة من خلال برامج الحد من النفايات
- تجمع المدينة وتعيد تدوير أكثر من ٩٠٠٠ طن من المواد سنويًا
- يتيح منع هدر الطعام من نقله إلى مكب النفايات، إمكانية منع انبعاثات غازات الدفيئة

بعد ٢٥ عامًا من الاستثمارات في البنية التحتية لمياه الصرف الصحي ومياه الأمطار أصبحت المدينة مستعدة بشكل أفضل لتأثيرات تغير المناخ

- منذ أكثر من ٢٥ عامًا، نفذت المدينة برامجًا لمعالجة جريان مياه الأمطار



BANGLA

THE CAMBRIDGE LIFE ন বর্ষি সমূহ ন বর্ষি সমূহ

সিটি ম্যানেজারের মেসেজ

- জলবায়ু পরিবর্তন আমাদের জীবনে প্রভাব ফেলছে এবং এটি শহরের জন্য সবচেয়ে গুরুত্বপূর্ণ।
- কমিউনিটি হিসাবে, এই গুরুতর সমস্যা সমাধানে আমাদের জরুরি ভিত্তিতে দৃঢ় সংকল্প হয়ে কাজ করতে হবে।
- এই কাজের নেতৃত্ব হিসাবে, আমরা উচ্চাকাঙ্ক্ষী লক্ষ্য নির্ধারণ করেছি এবং এতে কমিউনিটির সকলেরই মূল্যবান ভূমিকা পালনের সুযোগ রয়েছে।

কেমব্রিজের GHG হ্রাসের লক্ষ্যে ভবনগুলো হলো কেন্দ্র

- কেমব্রিজের ভবনগুলি, বিশেষ করে কমিউনিটি জুড়ে বিস্তৃত বৃহত্তম ভবন থেকেই কেমব্রিজের বেশিরভাগ GHG নির্গমন হয়
- নতুন এবং বিদ্যমান উভয় ভবনগুলো থেকে জীবাশ্ম জ্বালানীর পরিবর্তে নবায়নযোগ্য বিদ্যুতের উৎসের ব্যবহার এই নির্গমন নিম্নল করবে এবং এই শহরটি ক্রমে এই বিষয়ে একটি উদাহরণ হয়ে উঠছে
- সম্প্রতি সংশোধিত বিল্ডিং এনার্জি ইউজ ডিসকেলাজার অর্ডিন্যান্স (BEUDO), আপডেট করা নেট জিরো অ্যাকশন প্ল্যান এবং ফসিল ফুয়েল ফ্লি ডেমোনস্ট্রেশন প্রোগ্রামের মাধ্যমে কেমব্রিজের সমস্ত বিল্ডিং থেকে নির্গমন সমস্যার সমাধানে কাজ করা হবে এবং অগ্রগতি ট্র্যাক করার রূপরেখা এবং উচ্চাকাঙ্ক্ষী লক্ষ্য নির্ধারিত হবে।

একটি সবুজ পরিবহন ব্যবস্থার উদ্দেশ্যে যাত্রা

- কেমব্রিজ শিক্ষা, কমিউনিটি ওয়ার্কশপ, পরিকল্পনা এবং অবকাঠামো প্রকল্পের মাধ্যমে স্থায়ী পরিবহনে উৎসাহ প্রদান করে।
- আবাসিক স্বেচ্ছাসেবকরা পরিবহন প্রকল্পগুলিতে নিজেদের অবদান রাখতে পারেন।
- শহরটিতে বৈদ্যুতিক গাড়ির পরিকাঠামোতে বিনিয়োগ করার পাশাপাশি, আরও সম্পূর্ণভাবে বৈদ্যুতিক গাড়ি যানের তালিকায় যুক্ত করা হচ্ছে।

কেমব্রিজের বর্জ্য হ্রাস প্রোগ্রামগুলো জলবায়ু পরিবর্তন মোকাবেলায় সহায়তা করে

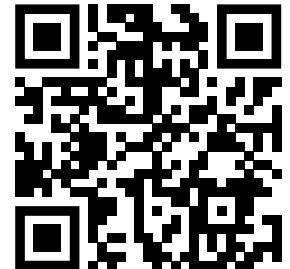
- শহরটি বর্জ্য হ্রাস কর্মসূচির মাধ্যমে পরিবেশের উপর আমাদের কমিউনিটির প্রভাব হ্রাস করার লক্ষ্যে কাজ করছে।
- শহরটিতে প্রতি বছর 9,000 টনেরও বেশি উপকরণ সংগ্রহ ও পুনর্ব্যবহার করা হয়।
- খাদ্যের বর্জ্যকে ভাগাড়ে না ফেলে, আমরা গ্রীনহাউস গ্যাস নির্গমন রোধ করি।

নালা ও বৃষ্টির জলের পরিকাঠামোগত 25 বছরের বিনিয়োগ, জলবায়ু পরিবর্তনের প্রভাবে শহরকে আরও ভালভাবে প্রস্তুত করে

- 25 বছরেরও বেশি সময় ধরে, শহরে বৃষ্টির জলের প্রবাহের সমাধানমূলক কর্মসূচি বাস্তবায়িত হয়ে চলেছে।
- জলবায়ু পরিবর্তনের সাথে খাপ খাইয়ে নেওয়ার জন্য, বৃষ্টির জলের প্রবাহ ব্যবস্থাপনার মতো গুরুত্বপূর্ণ পদ্ধতি ব্যবহার করা প্রয়োজন।
- সবুজ পরিকাঠামো শুধুমাত্র বন্যাকে প্রশমিত করে না, জলের গুণমানও উন্নত করে।

শহরের শহুরে বনজ প্রচেষ্টা কেমব্রিজকে সবুজ এবং আরও স্থিতিস্থাপক কমিউনিটি হিসাবে গড়ে তুলছে

- শহরটিতে প্রতি বছর গাছ লাগানোর সংখ্যা উল্লেখযোগ্যভাবে বৃদ্ধি পেয়েছে।
- কেমব্রিজের সমস্ত এলাকা জুড়ে 2018 থেকে 2020 সালের মধ্যে গাছের আচ্ছাদনে উল্লেখযোগ্য উন্নতি দেখা গেছে।
- পোষ্ট এলাকায় গ্রীন-রোজ হেরিটেজ পার্কে, কেমব্রিজ থেকে দ্বিতীয় দফা মিয়াওয়াকি ফরেস্ট রোপণ করা হয়েছে।



CHINESE

本期 THE CAMBRIDGE LIFE 的亮点

城市经理致辞

- 气候变化正在影响我们的生活，亦是我们剑桥市亟待应对的第一要务。
- 作为一个社区，我们必须紧急行动，排除万难应对这一难题。
- 作为这项工作的领导者，我们制定了雄心勃勃的目标，并为社区所有成员提供发挥宝贵作用的机会。

建筑物是剑桥市温室气体减排目标的核心

- 剑桥的大部分温室气体排放来自建筑物，尤其是社区各处的大型建筑物
- 将新老建筑从化石燃料转为可再生电能，将有助于减少排放，剑桥市致力于率先垂范
- 最近修订的《建筑能源使用披露条例》(BEUDO)、更新版的净零排放行动计划和无化石燃料示范项目提供了路线图，并制定了雄心勃勃的目标，以解决剑桥所有建筑物的排放问题并跟踪进展情况。

迈向更加绿色的交通系统之旅

- 剑桥通过教育、社区研讨会、规划和基础设施项目等一系列渠道，大力推行可持续交通。
- 居民志愿者可为交通项目建言献策。
- 剑桥市正积极投资电动汽车基础设施，并大力推广全电动汽车。

剑桥减废计划助力应对气候变化

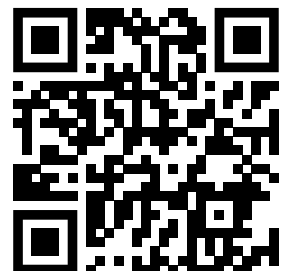
- 剑桥市正在积极通过减废计划，减少我们社区对环境的影响。
- 剑桥市每年回收9,000多吨废弃物。
- 通过阻止餐厨垃圾进入垃圾填埋场，我们可有效减少温室气体排放。

长达25年的雨污水基础设施投资使剑桥市能更好地应对气候变化影响

- 25年来以来，为管理雨水径流，剑桥市实施了多项计划。
- 应对气候变化需要运用多种关键工具，例如雨水管理。
- 绿色基础设施不仅可以纾解水患，还能提高水质。

城市造林计划正在使剑桥市成为一个更加绿色并更具复原力的社区

- 剑桥市每年种植的树木数量已大幅增加。
- 2018年至2020年期间，剑桥市所有社区的树冠覆盖面积均出现净增长。
- 剑桥在港口一带的格林玫瑰遗产公园 (Greene-Rose Heritage Park) 种植了第二片基于宫胁法的微型森林。





THE CAMBRIDGE LIFE



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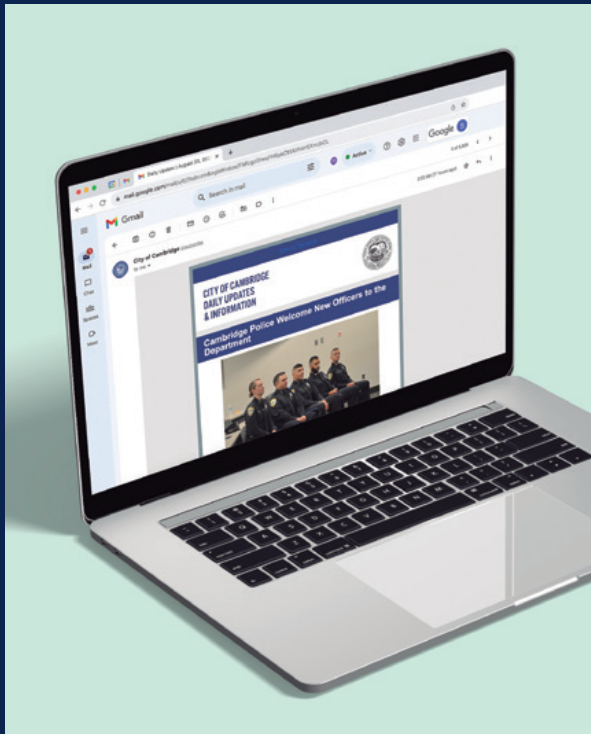
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