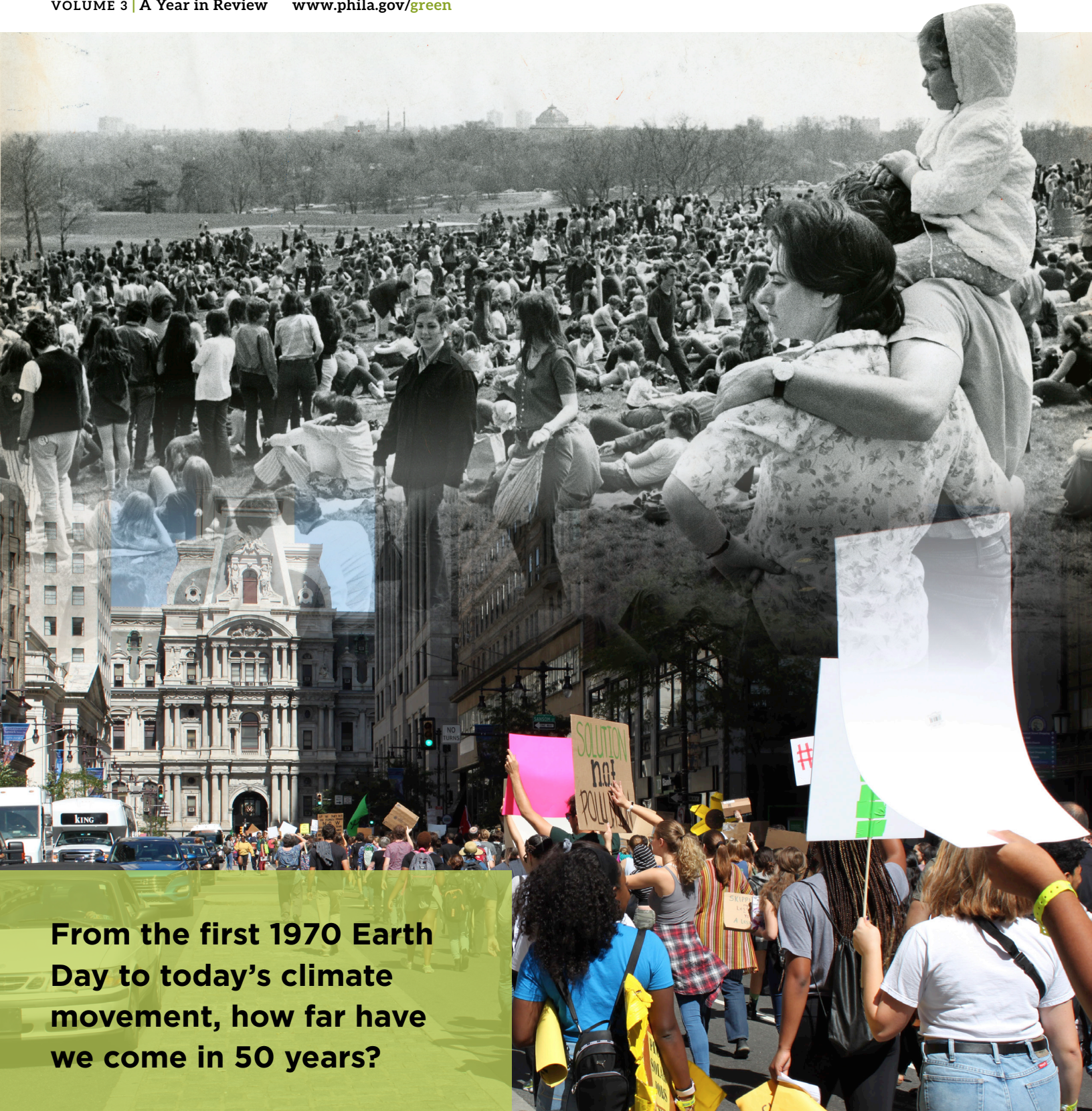


Greenworks

PHILADELPHIA

VOLUME 3 | A Year in Review www.phila.gov/green



From the first 1970 Earth Day to today's climate movement, how far have we come in 50 years?



Greenworks at a Glance

Catching You Up on Philadelphia's Sustainability Plan

In 2016 the Office of Sustainability (OOS) published *Greenworks: A Vision for a Sustainable Philadelphia*, the first major update to Philadelphia's sustainability plan since it was first released in 2009. The 2016 plan set eight long-term visions that continue to guide our work:



ACCESSIBLE FOOD AND DRINKING WATER



HEALTHY OUTDOOR AND INDOOR AIR



CLEAN AND EFFICIENT ENERGY



CLIMATE PREPARED AND CARBON NEUTRAL COMMUNITIES



QUALITY NATURAL RESOURCES



ACCESSIBLE, AFFORDABLE, AND SAFE TRANSPORTATION



ZERO WASTE



ENGAGED STUDENTS, STEWARDS, AND WORKERS

IN YOUR HAND



Greenworks: A Year in Review

This magazine highlights local resources and shares information on how Philadelphia residents, students, community groups, artists, activists, and organizers are improving their neighborhoods for today and tomorrow.

FURTHER READING

Visit our website at www.phila.gov/green for more information, including:

Monthly Newsletter

Email us at Sustainability@phila.gov or check out our website to get monthly updates on local events, workshops, and more!

Reports and Publications

Check out our library of reports, resource guides, and toolkits to learn more about the City's strategies around the eight Greenworks Visions.

OOS Blog

Check out our blog for interviews with local leaders, summaries of current events, and details on local initiatives.

April 2020

Dear Friends,

Fifty years ago, young people in Philadelphia and throughout the US were frustrated. They faced a political climate that was divisive and chaotic. Due to the unchecked advances of corporate greed, exploitation, and resource extraction, environmental degradation and pollution threatened their futures. And while they worked to make their voices heard, they were often silenced, overlooked, and ridiculed. But working together, young people in Philadelphia organized the first Earth Week in 1970. The week-long series of demonstrations and workshops became part of the national Earth Day movement that would grow to engage over 20 million people across the US.

In the following years, Congress responded to the nationwide call for environmental action by passing several pieces of landmark legislation. This included creating the Environmental Protection Agency in 1970 to protect human health and the natural environment, passing the Clean Air Act in 1972, and the Toxic Substances Control Act in 1976.

Fast forward to the year 2020. Youth-led climate strikes are mobilizing young people in cities around the world. Young people are raising awareness and demanding action to address the global climate crisis. Though Greta Thunberg is one of the more well-known youth activists due to initiating the recent Fridays For Future movement, Indigenous youth and young people of color from around the world have long been at the forefront of environmental justice organizing. Though many of these movements are youth-led, environmental organizing is also strengthened by support from elders, many of whom were part of the first Earth Day 50 years ago.

While the leaders of the 1970s environmental movement were primarily white and wealthy, today's climate movement is more diverse, recognizing that people of color and other marginalized communities are most impacted by the changing climate. Creating and sharing power among all communities and addressing the disinvestments of the past will be key to solving our most difficult environmental problems.

How will we respond to the calls of today's youth? Will we recognize the true crisis of the moment and respond with new solutions? Or will we still be facing these challenges in 50 more years?

We're proud that Philadelphia is leading on climate to reduce our carbon footprint and become more resilient to the hotter and wetter climate of our future. But we know there is much more work to be done. We believe that together, with the wisdom of our elders and the enthusiasm of our youth, we are up to the challenge. Let's work together.



James F. Kenney

James Kenney
MAYOR



Christine M. Knapp

Christine Knapp
DIRECTOR, OFFICE OF SUSTAINABILITY

Greenworks

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The Office of Sustainability (OOS) works with partners around the City to improve quality of life in all Philadelphia neighborhoods, reduce the City's carbon emissions, and prepare Philadelphia for a hotter, wetter future. OOS is responsible for implementing Greenworks Philadelphia, the City's comprehensive sustainability plan.

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Table of Contents

4	<u>SUSTAINABILITY SNAPSHOTS</u> Greenworks 2019, A Year in Review	32	<u>ENERGY MASTER PLAN</u> Key Energy Programs in Philadelphia
8	<u>INITIATIVES UPDATE</u> 2019 Successes and Looking Ahead	39	<u>ACTIVITY</u> How to Regrow Vegetables
12	<u>FACES OF GREENWORKS</u> Reflection on the 50th Anniversary of Earth Day	41	<u>IN THE KNOW</u> Climate Change and Inequality
15	<u>FACES OF GREENWORKS</u> Youth Activism in Philly	46	<u>ACTIVITY</u> What are Natural Lands?
20	<u>ACTIVITY</u> How to Safely Garden in Philadelphia		+ Voting Guide: Know Your Representatives 17 Voting Guide: How to Get Ready for the 2020 Election 18 Green Jobs and Volunteer Opportunities 19 Curbside 101: How to Set Your Trash Out 34 Philly Recycling Guide 35 Philly Trash and Treasures 36 City-wide Litter Index 37 Free Resources 44 Climate Change Scavenger Hunt 48
24	<u>IN THE KNOW</u> Food Policy Advisory Council		
26	<u>ART AND ACTIVISM</u> As Above So Below		
30	<u>ACTIVITY</u> Philly Transit Quiz		
31	<u>IN THE KNOW</u> What Shapes Philly's Carbon Footprint?		



[ON THE COVER] The cover celebrates over 50 years of environmental organizing and activism in Philadelphia. In 1970, thousands of people gathered in Philadelphia for the first Earth Week. In 2019 Philadelphia youth and youth elsewhere led climate strikes to demand action towards climate justice.

**EARTH
DAY
1970**

Allen Glicksman

NEIGHBORHOOD

West Philly

EXPERIENCE OF 1970 EARTH DAY

The very large crowd was a surprise. I wasn't expecting so many people. Although I was politically active at the time (still in high school) and had attended anti-war rallies I didn't know that this topic would be of such concern. I just milled around, saw lots of the same types of people I saw at other protests. I do not remember anything specific I learned but I do remember the general concern about environment and the planet.

HOPES FOR 50TH ANNIVERSARY OF EARTH DAY IN APRIL 2020

While there was a general sense of environment being an important issue alongside other concerns of the day (civil rights, the war, etc.) I would like to see attention to how these issues interact with other social concerns, especially poverty.

Greenworks 2019 Year in Review



Mayor Kenney speaks at the October 2019 launch of the Climate Collaborative of Greater Philadelphia, a regional partnership designed to get large organizations and businesses involved in the fight to protect current and future generations from the impacts of global climate change.

Philadelphia Passes Sweeping Mandate to Cut Carbon Pollution

At the end of 2018, Philadelphia was selected as one of 25 participants in the Bloomberg American Cities Climate Challenge, an initiative designed to help cities like ours meet their commitments to cutting the local carbon pollution that is causing global climate change. As participants in the Climate Challenge, the City of Philadelphia is receiving staff support and technical assistance through 2020 to enact new policies and programs that will cut pollution from building energy and transportation.

Thanks to support from Climate Challenge partners at the Natural Resources Defense Council and Institute for Market Transformation, Mayor Jim Kenney was able to sign a new Building Energy Performance Policy into law in December 2019.

The Building Energy Performance Policy mandates all non-res-

idential buildings 50,000 square feet and larger to either submit a certification of high-energy performance to the City's Office of Sustainability (OOS) or conduct a tune-up to bring existing building energy systems up to a state of good repair. Tune-ups are small tweaks to existing systems and controls that will lead to cost savings for building owners and increased comfort for tenants.

This new policy will have big benefits for Philadelphia residents and businesses and for our carbon footprint. OOS has estimated energy bill savings from the tune-ups will reduce bills for owners and tenants and create as many as 600 new local jobs in Philadelphia. And once fully implemented, it will cut carbon pollution in Philadelphia by nearly 200,000 metric tons. This is the climate pollution equivalent of taking 40,000 automobiles off our roads. 🌟

PA Joins Regional Greenhouse Gas Initiative

In 2018, the Office of Sustainability (OOS) published *Powering Our Future: A Clean Energy Vision for Philadelphia*, a framework for achieving Mayor Kenney's long-term commitment to cut carbon pollution causing climate change at least 80% locally by 2050. As outlined in *Powering Our Future*, achieving this reduction will require transformative policies locally (like the building energy performance policy referenced on page 4). However, even these policies will be insufficient if the regional electricity grid that powers our homes, offices, and increasingly, our transportation system continues to be a source of carbon pollution. Currently our regional electricity grid is mostly powered by coal and natural-gas-fired power plants, which contribute to global climate change. Several new initiatives are working to change that balance.

One of the largest opportunities for moving toward a cleaner grid is through carbon pricing efforts like the Regional Greenhouse Gas Initiative (RGGI). RGGI is a cooperative effort among states to reduce greenhouse gas emissions regionally. It requires electricity generators who contribute to climate change to pay a fee that can be used for carbon reducing projects. Most of the states in the Northeast and Mid-Atlantic participate in RGGI, but Pennsylvania has been reluctant to join the initiative since it was launched in 2009. This changed in 2019, when Governor Tom Wolf announced he would lead efforts to bring Pennsylvania into RGGI. OOS estimates that joining this initiative could create as much as \$100 million in additional revenue for climate action efforts statewide, while leading power generators to move toward clean opportunities like wind and solar power.

While RGGI can be transformative for participating states, PJM, the electricity grid that Philadelphia is a part of stretches across 13 states, including many that are likely to join RGGI given their political climate. The City of Philadelphia has worked with the Urban Sustainability Directors Network and several leading cities within the PJM region to form a new coalition to advocate on behalf of clean energy policies across the region. The coalition has already weighed in during the recent change in leadership at PJM, and expects to formalize its work in the coming year. 🌟

Image courtesy of @urphilypal.



NEIGH-
BORHOOD
GEM

Betsey Cichoracki

NEIGHBORHOOD

Bridesburg / Frankford

RIVERFRONT NORTH

I absolutely love and support all they are doing to build up access points, parks, education, and accessibility to the Delaware River north of Girard Ave. I know we can take our dog to any of the local parks along the Delaware (Pulaski, Frankford Boat Launch, Lardner's Point, etc) to have a quiet, clean walk with the added bonus of looking out over the water. Plus they are restoring the shoreline and have regular clean up events that aide in the overall health of the river that provides drinking water to so many of us.



CONNECTing the Dots—Turning Plans into Reality

In 2019 the Office of Transportation, Infrastructure, and Sustainability (oTIS) published **CONNECT, the City's Strategic Transportation Plan**. Since then, CONNECT has not gathered a speck of dust sitting on a shelf. City staff are actively pursuing the plan's goals to make Philadelphia's transportation system safer, more accessible, and more sustainable.

With an emphasis on Vision Zero—the goal to work toward zero traffic deaths by 2030—oTIS is partnering with the Vision Zero Task Force to prioritize the safety of Philadelphians. Over the past year, Mayor Kenney signed legislation to add speed cameras to Roosevelt Boulevard and the City announced the inaugural Neighborhood Slow Zones at Willard Elementary School and in the Fairhill neighborhood. This work will accelerate in the years ahead thanks to efforts by City staff to secure more than \$13 million in grant funding to support projects along High Injury Network corridors.

In addition to saving lives, the CONNECT plan seeks to improve quality of life for Philadelphians by supporting a transportation system with diverse opportunities and broad accessibility. The Indego Bike Network – already a national leader in equitable bike share and community-led strategies—expanded by adding new stations and providing electric-assisted bicycles as an option for riders. oTIS staff also kicked off development of a citywide Transit Plan by conducting meetings with community organizations. To complement these transit efforts, oTIS is also reviewing opportunities to address the traffic congestion that slows our buses, blocks our streets, and wastes our precious time and resources.

By directing its efforts toward developing policies and programs that reflect the goals set forth in CONNECT, oTIS is making progress in its mission to ensure Philadelphia's transportation system is equitable, safe, accessible, sustainable, and healthy. 🌟



PHILLY TRANSIT STORY

Emily L. Hooven

NEIGHBORHOOD

Brewerytown

My favorite Philly transit memory occurred on New Years Eve in 2019. My friend Tara and I went with a group of our college friends to North Bowl in Fishtown. We had a great time catching up and dancing but after the euphoria from the ball drop wore off, we realized it was time to go home. We didn't want to spend any more money and were too sober to pay for the inflated ride share prices so we decided to ride Indego bikes. It started to rain while we pedaled along (looking cute might I add) but it didn't bother us. We smiled at all the suckers getting into their \$60 Ubers as we rode past. We heard one girl say to her friend, "See...those girls are smart."





The Evolution of a Gas Utility

Since it lit 46 lights along Second Street in 1836, Philadelphia Gas Works—more commonly known by its acronym PGW—has expanded to become a mainstay in the city’s homes and businesses. Today, PGW is the largest municipally owned gas utility in the country and serves 500,000 customers by distributing natural gas through its pipes. Beyond providing energy to Philadelphians, PGW also employs about 1,600 individuals.

Yet, for decades, PGW has been experiencing a decrease in customers and usage due to appliance efficiencies and conservation efforts. Warming weather patterns have also contributed to reductions in demand. These issues will only intensify. Because of climate change, temperatures are projected to continue to rise in the future and new policies may restrict the production of greenhouse gases. Therefore, PGW and the City of Philadelphia, as its owner, need to understand how a gas-only utility can provide necessary services in a lower-carbon future while at the same time thriving

financially and retaining its 1,600-person workforce.

That’s why the City and PGW are partnering to conduct a “business diversification study” that will provide a range of environmentally and economically sustainable pathways for the utility to consider. A consultant will evaluate numerous new energy sources, such as renewable energy, and energy services, such as weatherization, that PGW could potentially adopt. The study will evaluate each energy source and service based on anticipated carbon emissions reductions, its financial, regulatory and technological viability, and its effect on the workforce.

Once the study is complete, PGW and the City have committed —through participation in the American Cities Climate Challenge—to use the findings to identify a pilot project by the end of 2020. Although this pilot will test at least one pathway identified by the study, future planning will be necessary to determine how PGW can best evolve and succeed in a low-carbon future. 🌟

2019 Successes and Looking Ahead

Philadelphia's Greenworks framework sets out eight long-term visions for a sustainable city for all. The Office of Sustainability and its partners across city government are doing their part to achieve each of those visions. Read on to learn more about recent successes across each of the eight visions and things to look forward to in 2020.



ACCESSIBLE FOOD AND DRINKING WATER

★ 2019 SUCCESSSES

- The City of Philadelphia launched a citywide urban agriculture planning process. The resulting agriculture strategy will contribute to the equitable development of Philadelphia, guide the City on how to expand urban agriculture projects, and offer strategies for sustaining existing efforts.
- PWD launched a campaign to promote its free, high-quality drinking water through the Philly Water Bar pop-up.
- The City, in partnership with residents and ELGP, published Good Eats, the first ever report on the size and scope of our city's food economy.
- Hydrate Philly, a joint effort by PDPH and PPR, installed hydration stations at 14 recreation centers and provided thousands of reusable bottles to summer camps and after-school programs.

🕒 LOOKING AHEAD

- FPAC will publish the results of a year-long strategic planning process and equity assessment (see page 24 for more details).
- Philadelphia will launch the city's first Community Composting Network with 12 sites across the city.
- The City is seeking proposals through OIT's Pitch and Pilot innovation program to promote an increase in drinking tap water among residents.



HEALTHY OUTDOOR AND INDOOR AIR

★ 2019 SUCCESSSES

- Philadelphia City Council passed legislation phasing out the use of heavy fuel oils. These fossil fuels contribute to global climate change and worsen local air quality.
- AMS deployed street-level monitoring infrastructure in neighborhoods across the city and is analyzing data to inform policy and program decisions.
- The City's RAG issued a report following the closure of the Philadelphia Energy Solutions facility in June 2019. The report set specific recommendations for future site uses, including accounting for environmental impacts and planning for climate resilience.

🕒 LOOKING AHEAD

- CHOP plans to engage 65 households in its asthma intervention pilot project which improves indoor air quality using housing repairs and other efforts.
- The City of Philadelphia is finalizing a Clean Fleet strategy for transitioning its 6,000 municipally-owned vehicles to cleaner fuel sources, including electric vehicles.
- SEPTA received a federal grant to add an additional 10 electric buses to its fleet in 2020. SEPTA is currently planning the infrastructure requirements for this new procurement to help meet its goal of ensuring 95% of its bus fleet is electric or hybrid-diesel by 2021.

ACRONYMS—

Philadelphia Water Department (**PWD**)
 Economy League of Greater Philadelphia (**ELGP**)
 Philadelphia Department of Public Health (**PDPH**)
 Philadelphia Parks & Recreation (**PPR**)
 Food Policy Advisory Council (**FPAC**)
 Office of Innovation & Technology (**OIT**)
 Philadelphia Air Management Services (**AMS**)

Philadelphia Refinery Advisory Group (**RAG**)
 Children's Hospital of Philadelphia (**CHOP**)
 Southeastern Pennsylvania Transit Authority (**SEPTA**)
 Philadelphia Energy Authority (**PEA**)
 Philadelphia Office of Sustainability (**OOS**)
 Philadelphia Gas Works (**PGW**)
 National Oceanic and Atmospheric Association (**NOAA**)

Climate Change Adaptation Program (**CCAP**)
 Philadelphia International Airport (**PHL**)
 Green Cities, Clean Waters (**GCCW**)
 Office of Transportation, Infrastructure, and Sustainability (**oTIS**)
 Climate & Urban Systems Partnership (**CUSP**)
 Office of Workforce Development (**OWD**)
 School District of Philadelphia (**SDP**)



CLEAN AND EFFICIENT ENERGY

★ 2019 SUCCESSES

- The City's Energy Office published an update to its Municipal Energy Master Plan, highlighting progress toward meeting energy efficiency, carbon reductions, and clean energy goals. See page 32 to learn more.
- Philadelphia City Council passed legislation establishing a new Building Energy Performance Policy, which will require large buildings in the city to perform regular tune-ups of their energy and water systems.
- PEA led the largest phase of Solarize Philly to-date, bringing the total number of participants to 654.
- City Council passed a set of bills to encourage residents and businesses to go solar: creating a new Solar Rebate, reducing solar permit fees, and allowing for solar canopies.

🕒 LOOKING AHEAD

- PEA will roll out Philadelphia's first program to help low-and-moderate income homeowners go solar.
- The City and PEA are currently evaluating the results of a Request for Qualifications to convert Philadelphia's citywide streetlighting network to LEDs. The City will engage with residents, businesses, and other stakeholders as this project moves forward.
- OOS and PGW are working with consultants to complete a business diversification study for the nation's largest municipally-owned gas utility. The study will evaluate opportunities to cut carbon emissions and protect consumers and employees as Philadelphia's climate changes.
- Philadelphia's forthcoming solar power plant will break ground in Central Pennsylvania in the first half of 2020. Once fully operational, it will provide at least 22% of municipal electricity use.



CLIMATE PREPARED AND CARBON NEUTRAL COMMUNITIES

★ 2019 SUCCESSES

- The City and Hunting Park community partners published the first ever Community Heat Relief Plan for the North Philly neighborhood.
- Philadelphia participated in the American Cities Climate Challenge, receiving technical resources to advance key building energy and transportation policies and programs.
- PWD started a vulnerability and risk assessment in order to identify assets that are vulnerable to inundation from sea level rise and storm surge. PWD will make recommendations to reduce risks through effective adaptation.
- PWD, the Stevens Institute, and Drexel University were awarded a NOAA grant to perform compound flood modeling in Eastwick. Sea level rise and precipitation projections under climate change will be used to identify and evaluate adaptation strategies.

🕒 LOOKING AHEAD

- CCAP is prioritizing the development and implementation of climate resilient planning and design guidance to protect existing assets and ensure the long-term resilience of new assets across the City's drinking water, wastewater and stormwater systems.
- This summer Hunting Park partners will launch the neighborhood's first Heat Relief Network. Check out page 41 for more details.
- OOS will issue a summary of climate action planning and programs across every sector of the city's carbon emissions profile.
- PHL conducted a vulnerability assessment to better understand how its infrastructure will be affected by sea level rise and other climate change impacts. This work will inform a forthcoming airport-wide climate action plan.
- Following a commitment from Mayor Kenney to prioritize climate preparedness in his second term, the city will hire its first ever Chief Resilience Officer and launch a citywide climate planning process.



QUALITY NATURAL RESOURCES

★ 2019 SUCCESSES

- PPR and OOS launched the city's first-ever urban forest strategic planning process in December 2019.
- PPR released a Tree Canopy Assessment of the city's urban forest and brought together 100s of Philadelphia's leading urban forestry experts and community stakeholders.
- By the end of 2019, over 1,500 greened acres have been constructed under PWD's GCCW program to reduce combined sewer overflows.
- Scientists at the Fairmount Water Works Freshwater Mussel Hatchery produced over 10,000 native and endangered young mussels to be reintroduced to city waterways. Mussels are natural filters and benefit ambient water quality.

🕒 LOOKING AHEAD

- Through its Community Yard Tree Giveaway program, TreePhilly is addressing inequity by partnering with community groups to host free yard tree giveaways in neighborhoods with few trees.
- PPR and OOS will advance the urban forest strategic planning process by involving community input. To learn how you can get involved, visit www.phila.gov/parksandrec for updates.
- This summer, the City and partners will undertake a study to understand how existing green infrastructure can help cool down Philadelphia neighborhoods. The project will also contribute to community learning around sustainability.



ACCESSIBLE, AFFORDABLE, AND SAFE TRANSPORTATION

★ 2019 SUCCESSES

- oTIS completed improvements to the Center City bicycle network, re-orienting the lanes on Spruce and Pine Streets and creating a protected lane on 11th Street to improve safety for cyclists, pedestrians, and drivers.
- The City issued the two-year progress report on the Vision Zero program, highlighting key successes including new Neighborhood Slow Zones and speed cameras along Roosevelt Boulevard.

🕒 LOOKING AHEAD

- 200 more electric bikes will be added to the Indego fleet.
- Indego will release a new app that allows users to earn free ride time and cash incentives.
- oTIS is developing policy and program recommendations to help alleviate congestion in Center City.
- oTIS will launch a planning process to create a Philadelphia Transit Plan. When complete, the plan will help inform SEPTA's forthcoming comprehensive review and redesign of the Philadelphia bus network.



ZERO WASTE

★ 2019 SUCCESSES

- The City launched the Zero Waste Partnership Program in Fall 2018 to collaborate with local businesses and organizations on achieving Zero Waste in Philadelphia. 18 partners have signed on to report on their Zero Waste practices, including Zero Waste Actions and monthly waste diversion rates.
- The City and 12 local schools participated in the CleanFutures program to engage students in litter reduction. Through the program, groups of students from classes and after-school clubs at Philadelphia schools track and count litter on their school properties and use the data they collect to implement litter awareness and reduction projects.
- Nearly 400 City-owned buildings submitted waste audits to the Zero Waste and Litter Cabinet, providing information about challenges to waste and recycling that will inform future policies and programs.
- Philadelphia City Council passed anti-litter legislation banning single-use plastic bags citywide.
- PWD removed 517 tons of litter through their Waterways Restoration Team, 14.3 tons through the Skimming Boat program, and over 85.8 tons removed partnership volunteer cleanups.

🕒 LOOKING AHEAD

- PPR will launch the first city-owned composting facility later this year. The facility will collect food waste from at least 25 recreation facilities and collect compost from residential and commercial customers for a fee.
- Philadelphia is participating in the Thriving Cities pilot, a project by the C40 Cities Group. The pilot will support Philadelphia and other cities to develop strategies that encourage sustainable consumption patterns and reduce waste and carbon pollution.



ENGAGED STUDENTS, STEWARDS, AND WORKERS

★ 2019 SUCCESSES

- City departments continued to implement programs designed to engage residents around sustainability, including PowerCorps, FarmPhilly, Future Track, and Soak It Up Adoption.
- PEA graduated its fourth class of solar trainees. Bringing the total number of graduates to 70.
- Philadelphia City Council passed legislation ensuring that members of the forthcoming Environmental Justice Commission will be compensated for their time.
- More than 50 municipalities, institutions, and businesses joined the Climate Collaborative of Greater Philadelphia. The Collaborative will provide information and training to help participants cut their carbon footprint.
- The PWD CCAP worked with Fairmount Water Works, local teachers, CUSP, and the Cloud Institute to develop a middle school curriculum on climate change and its impacts on the watershed.

LOOKING AHEAD

- OOS and the OWD will develop a strategy to help local residents take advantage of job opportunities created through the new Building Energy Performance Policy.
- The City will convene a series of listening sessions with community members to help set priorities for the new Environmental Justice Commission.
- SDP will launch one of the first vocational solar programs in the nation at Frankford High School.
- PowerCorpsPHL will host its first cohort of Solar Fellows through support from PEA's Bright Solar Futures program.

Reflecting on 50 Years of Earth Day

In 1970, 20 million people across the United States took part in Earth Day. Many attendees were motivated by oil spills, smog, water pollution of our waterways, and other issues impacting their communities and places further away. The first Earth Day was modeled after the anti-war protests of the 1960s, which offered people a variety of ways to reflect and take action. Earth Day participants organized teach-ins to learn about pressing issues like pesticides, waste, air quality, and other issues that were not widely discussed. At the same time, organizers held sit-ins and other protests at businesses with environmentally hazardous practices. Though communities have always mobilized to protect their environments, the first Earth Day helped bring more attention to environmental issues in the US.



Images courtesy of the Special Collections Research Center. Temple University Libraries. Philadelphia, PA



Philadelphia Earth Week, 1970

Did you know that Philadelphia was the first city to extend Earth Day events to an entire week? The first Earth Week in Philadelphia was held from April 16 – April 23, 1970. It was organized by a group of students, professionals, grassroots organizers, and others who shared concern for the environment. The largest gatherings took place on Independence Mall on April 21 and Belmont Plateau in Fairmount Park on April 22. Tens of thousands of people showed up to express their desire for greater protections for people and the environment. Notable attendees included U.S. Senator Edmund Muskie, the author of the Clean Air Act, the Broadway cast of *Hair*, and RedBone, a Native American band.

Smaller actions took place elsewhere throughout the city; in neighborhoods, community centers, schools, and more. The Germantown Lutheran Academy closed its on-site trash incinerator, which had been in use for over 20 years. Others participated in the Philadelphia Pollution Trail Bus, which made stops at polluting facilities like the Philadelphia Coke Company in Bridesburg. Bridesburg, like other sections of Philadelphia, was heavily industrial with factories and warehouses. Facilities like these not only polluted the environment, but also caused health problems and other challenges for residents.

Environmentalism and Civil Rights

African Americans and other people of color were fighting against pollution, lead paint, and waste disposal methods like incineration and landfiling years before the first Earth Day. However, the issues faced by people of color were not always included in mainstream environmental movements. Some have even argued that the early Earth Day celebrations failed to acknowledge the fact that Black, Latinx, and other communities of color were more likely to live near hazardous facilities. Professor Robert Bullard, an early environmental justice activist, wrote “whether by conscious design or institutional neglect, communities of color in urban ghettos, in rural ‘poverty pockets’, or in economically impoverished Native-American reservations face some of the worst environmental degradation in the nation.” He went on to describe the process of proving environmental racism exists as an uphill battle.

People of color are more likely to experience environmental harms but less likely to be involved in decision making about land use and development, tools that can be used to address those harms. Much like civil rights, environmental justice is a bridge that connects issues that are often viewed as unrelated. As a movement, it reveals the root causes of environmental destruction and exploitation: capitalism and white supremacy. While low-income and communities of color often find themselves at the frontlines, environmental issues affect everyone. Bridesburg is an example. At the height of its industrial use, the neighborhood was mostly white and many residents worked to keep the neighborhood and the factories segregated despite the environmental hazards. As immigrants, many Bridesburg residents themselves were discriminated against. Their status as immigrants relegated them to low paid and often hazardous factory jobs.



FACES OF GREENWORKS

Equity and distributive justice are important parts of any environmental movement. Given the histories of genocide, land theft, slavery, xenophobia and other systems that have excluded and disadvantaged marginalized groups; environmental justice calls for collaboration rooted in an understanding of our mutual interdependence. Just as increased public awareness about pollution brought environmental issues to center stage in 1970, concerns about climate change have once again brought environmental concerns to the forefront.

Ongoing Impact

In reaction to the nationwide call for environmental action that was heard on that first Earth Day, Congress enacted several pieces of landmark environmental legislation, including the Clean Air Act, the Endangered Species Act and the Toxic Substances Control Act. Additionally, the Environmental Protection Agency was established that year by a special executive order to regulate and enforce national pollution legislation and to protect human health and the natural environment.

Today, Earth Day is still celebrated by millions of people in countries around the world, helping to raise awareness of ongoing issues, such as climate change. 🌱



Image courtesy of Vince Vento



Image courtesy of Vince Vento

Youth Activism in Philly

The first Earth Day events in 1970 were largely organized by young people. Though anyone can make an impact, youth play an especially important role in advocating for cleaner and healthier environments that support all forms of life. Young people from around the globe are organizing in their communities and at larger scales. Check out a few ways young people in Philadelphia are getting involved 50 years after the first Earth Day.

Climate Strike for the Planet

May Colgan got involved in the climate movement because she was tired of hearing that the most she could do as a young person was recycle or turn off the lights. She says, “Though small, personal changes are important, it’s hard to not find another way to participate given the shocking reports about the state of our planet.” One thing that pushed her into organizing as a young person was the revelation that she might not get that chance when she is older. “We are experiencing the fallout of many years of bad decision making and we have only one decade to reverse over a century of damage. I joined the movement because the timeline is too short to wait until when we’re older to worry about our future.”

May has found inspiration in this work because she has met so many incredible people who are winning battles and devoting their lives to seeking climate justice. “Being involved in direct action has made climate change seem less overwhelming and vast. It is empowering to go from reading about mass extinction, sea-level rise, and other massive issues to being able to get involved and win battles that affect your own community.” When reflecting on how 2020 is different from 1970, May tells us that combatting climate change is a relatively new priority for our political leaders. Even though many are still not motivated to take action, she sees the involvement of people her age as a sign of progress. “I hope that by the 100th anniversary of Earth Day, my generation can comfortably envision the lives of their children in a world where they will not have to fight for basic environmental rights.” When asked what advice she would give to others, May offered the following: “Getting involved is intimidating at first and staying involved



Image courtesy of Rebel Ventures

requires time and energy. But, it is so fulfilling to contribute to fighting against issues that affect your community, locally and globally. There are many organizations that deal with different aspects of environmental justice. Regardless of what your skill set or background is, they can use your help. Try going to a meeting, you might be surprised.”

Creating Healthy Deliciousness with Rebel Ventures

Rebel Ventures is a high-school-student-run nonprofit food business based in Philadelphia. It is operated by 16 students who go to high schools and live in neighborhoods across the city. “We create healthy deliciousness with kids in schools and in our communities. Our objectives are to increase access to nutritious and tasty food (we call this healthy delicious-

ness) for kids and to engage high school students in a meaningful job experience using entrepreneurship as a strategy for positive youth development.” Rebel Ventures achieves these goals by challenging students to design and run a business with a goal of creating healthier communities.

Rebel Ventures created a product called Rebel Crumbles, which is served in all Philly schools for breakfast. Crumbles are also sold in Wegmans KOP, Shoprite of Parkside, PHL airport, and small retail stores around Pennsylvania. “Every aspect of our business is run by high school students; including our meetings with partners (such as the School District of Philadelphia and the University of Pennsylvania), product development, and our sales. Our work engages the entrepreneurial energy of young people to build a better food system and healthier community.”

FACES OF GREENWORKS

Fun with Compost at Temple Community Garden

Temple Community Garden now offers a pilot, net-zero, compost-collection program. Student volunteers use bikes to pick up compost, free of charge, from a few residence halls, off-campus apartments, and even the Math Department. The compost heap is located at Diamond and Carlisle streets in North Philadelphia. It serves as a resource for the Temple community to learn more about reducing their own personal waste footprint. Kate Lyons, a student at Temple, describes the benefits of the program: “Composting not only diverts food waste from the landfill, but it raises awareness about food overconsumption and produces healthy soil that produces delicious organic veggies.”

Last semester, the service recovered around 400 pounds of compost and helped fuel the Temple Community Garden harvest. The student-led Compost Collection Service was Temple’s Office of Sustainability’s first ever Student Green Fund-funded project. Its leaders have plans to build on this initial investment and grow the program to offer pickup service to more North Philadelphia neighbors on-and off-campus.



Image courtesy of Corey Becker

Reducing Waste at Friends Select School

Corey Becker joined the Sustainability Club at Friends Select due to concern for the environment and a desire to contribute. “I have found that anyone with dedication can make an impact. My first year in this club began with efforts to reduce disposable bottle usage and explore the possibility of composting at our school.” The club has collaborated with other members of the community to develop programs



Image courtesy of Temple University

to reduce waste from a variety of sources. They have instituted a battery recycling program and are currently looking into alternative recycling providers and waterless urinals to reduce water usage.

Corey offers the following advice to anyone wanting to make an impact on our environment: “Don’t worry about how much of an impact you will have. Start small, and as you continue your work, you will be able to leverage your experience to increase your impact and enact greater change.”

Sustainable Design with FirstHand and Alain Locke Elementary School

FirstHand is a program of the University City Science Center. Alain Locke Elementary School, in the Mill Creek neighborhood of West Philadelphia, was one of FirstHand’s earliest school partnerships. Since 2015, FirstHand has engaged with

100 students from the school. On Thursday mornings, small groups of students and a teacher chaperone travel to the University City Science Center via the Market-Frankford Line.

Their latest activity is the Polymer Play series, which focuses on sustainable materials. Students learn about the different types of plastic, what plastic is made of, what plastic is and is not recyclable in our blue bins, and finally how to reuse plastic bags to stop them from entering the trash stream. After learning how to use sealing irons, a heat press, and soldering irons, students were challenged to either create something using fusing or design an alternative to six-pack rings that don’t harm marine animals. Many of the students designed sustainable fashion and one student created a six-pack holder made of repurposed plastic air pouches. ✨

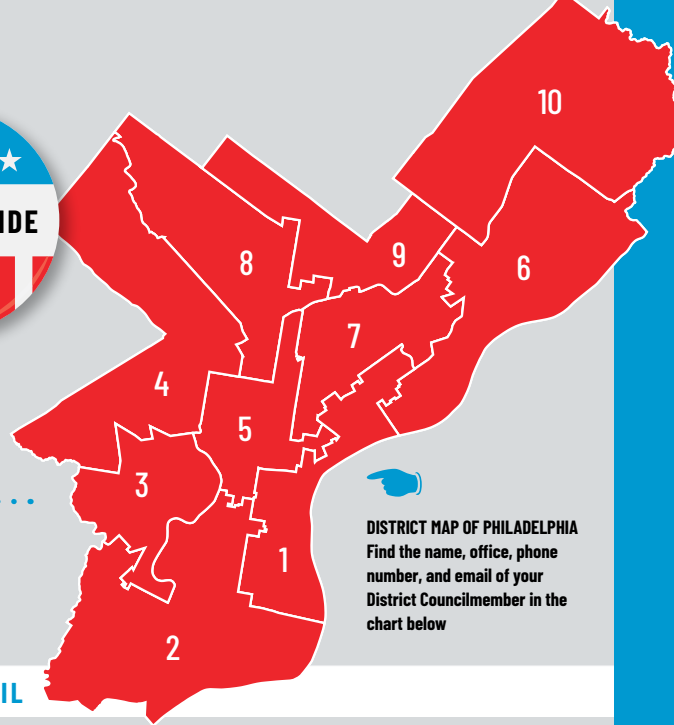


Image courtesy of FirstHand, a program of the University City Science Center

How are you advocating for the environment and your community?

Let us know! Email us at sustainability@phila.gov or tag #GreenworksPHL on Instagram or Twitter.

Know Your Representatives



DISTRICT MAP OF PHILADELPHIA
Find the name, office, phone number, and email of your District Councilmember in the chart below

As a Philadelphia resident, you have representation in the Mayor's Office and in Philadelphia City Council!

The Mayor and City Council work together to:

- ✓ pass and carry out legislation;
- ✓ create policies to improve the lives of Philadelphia residents and businesses; and
- ✓ establish annual budgets that reflect our city's priorities.

MAYOR'S OFFICE

Philadelphia's Mayor is **James F. Kenney**. The Kenney Administration is responsible for carrying out laws passed by Philadelphia City Council and proposing new programs and policies. In early 2020, the Mayor's Office announced its priorities for the second term.

You can reach the Mayor's Office at james.kenney@phila.gov and 215-686-2181.

PHILADELPHIA CITY COUNCIL

Philadelphia City Council is made up of 17 members.

Ten of the members are "District Councilmembers," meaning they represent one part of the city. The other seven Councilmembers are "At-Large," meaning they represent every Philadelphian.

1st DIST.
Mark Squilla
332 CITY HALL
215-686-3458/59
mark.squilla@phila.gov

2nd DIST.
Kenyatta Johnson
580 CITY HALL
215-686-3412/13
kenyatta.johnson@phila.gov

3rd DIST.
Jaime Gauthier
586 CITY HALL
215-686-0459/60
jaimie.gauthier@phila.gov

4th DIST.
Curtis Jones, JR
404 CITY HALL
215-686-3416/17
curtis.jones.jr@phila.gov

5th DIST.
Darrell L. Clarke
313 CITY HALL
215-686-3442/43
darrell.clarke@phila.gov

6th DIST.
Bobby Henon
484 CITY HALL
215-686-3444/45
bobby.henon@phila.gov

7th DIST.
Maria D. Quiñones Sánchez
508 CITY HALL
215-686-3448/49
maria.q.sanchez@phila.gov

8th DIST.
Cindy Bass
312 CITY HALL
215-686-3424/25
cindy.bass@phila.gov

9th DIST.
Cherelle L. Parker
577 CITY HALL
215-686-3454/55
cherelle.parker@phila.gov

10th DIST.
Brian J. O'Neill
562 CITY HALL
215-686-3422/23
brian.oneill@phila.gov

These 7 Councilmembers are "At-Large," meaning they represent every Philadelphian.



Kendra Brooks
408 CITY HALL
215-686-0461/62
kendra.brooks@phila.gov

Allan Domb
316 CITY HALL
215-686-3414/15
allan.domb@phila.gov

Katherine Gilmore Richardson
581 CITY HALL
215-686-0454/55
katherine.gilmore.richardson@phila.gov

Derek S. Green
594 CITY HALL
215-686-3450/51
derek.green@phila.gov

Helen Gym
592 CITY HALL
215-686-3420/21
helen.gym@phila.gov

David Oh
319 CITY HALL
215-686-3452/53
david.oh@phila.gov

Isaiah Thomas
330 CITY HALL
215-686-3446/47
Isaiah.thomas@phila.gov

How to Get Ready for the 2020 Election



On November 3, 2020, registered voters in Philadelphia can vote for national and state representatives:

- ★ The President of the United States;
- ★ Representative in Congress;
- ★ Attorney General;
- ★ State Treasurer;
- ★ Senator in the General Assembly; and
- ★ Representative in the General Assembly

Philadelphians who have voted in previous years will notice many new changes to the voting process in 2020, two of which are:

- It is now easier for registered voters to make their choice prior to Election Day because Pennsylvania updated its procedures and timelines for absentee and mail-in balloting.
- There are new voting machines in every county in Pennsylvania, including Philadelphia County

KEY DATES FOR THE 2020 ELECTION

- ☐ **JUNE 2, 2020**
Primary Election Day
- ☐ **OCTOBER 19, 2020**
Last day to register before the November Election
- ☐ **OCTOBER 27, 2020**
Last day to apply for a mail-in or civilian absentee ballot
- ☐ **NOVEMBER 3, 2020**
Last day for County Boards of Elections to receive voted mail-in and civilian absentee ballots
- ☐ **NOVEMBER 3, 2020**
General Election Day

Step 1: Register to Vote

Eligible Philadelphians must register by October 19, 2020 to vote in this November's election. Not sure if you are registered? Check out bit.ly/VoteStatusPA.

There are different ways to register in Philadelphia—just choose what's best for you!

REGISTER TO VOTE ONLINE

You can register to vote through the Pennsylvania Department of State's online application. Before you begin, be sure to have your Pennsylvania driver's license or PennDOT ID card handy. If you don't have one, there are other options. Once you submit your online application, it will be forwarded to the appropriate county voter registration office for processing. Visit bit.ly/RegisterVotePHL to get started.

REGISTER TO VOTE IN PERSON

 You can register to vote at:

The Philadelphia Voter Registration Office
520 N. Columbus Blvd, 5th Floor
Philadelphia, PA 19123
Mon-Fri, 8:30 AM – 5:00 PM


The Philadelphia County Board of Elections
Room 142 City Hall
Philadelphia, PA 19107
Mon-Fri, 8:00 AM – 5:00 PM

REGISTER TO VOTE BY MAIL

The City Commissioners and the Philadelphia Voter Registration Office supply Voter Registration Mail Applications to all persons and organizations who request them, including candidates, political parties, political bodies and other federal, state, and municipal offices.

Voter Registration Applications are also available at:

- U.S. Post Offices
- Philadelphia Public Libraries
- State Liquor Stores
- Other State Government Offices

 You can download and print the application at bit.ly/VoteAppPA.

REGISTER TO VOTE AT PENNDOT

You can register to vote at a PA Department of Transportation photo license center when you obtain or update your driver's license.

Step 2: Learn the New Voting System

Philadelphia voters started using new voting machines in 2019. These machines are designed to be simple and secure. For more information and a preview of what you'll see in the voting booth in 2020, check out the Philadelphia City Commissioners' website at bit.ly/VotingSystemPA or call 215-686-1590.

Guide to Green Jobs and Volunteer Opportunities



As Philadelphia continues to shift towards a greener, healthier, and more sustainable city, jobs and other opportunities to get involved are being created for residents of all ages. Check out our guide to learn how you can get involved!

IN THE PUBLIC SECTOR

Municipal and utility employees make Philadelphia more sustainable through jobs like building maintenance, water and sewer operations, energy services, public transportation, and more.

- **City of Philadelphia:** bit.ly/PHLgovjob
- **PECO:** bit.ly/PECOjobs
- **PGW:** bit.ly/PGWjobs
- **SEPTA:** bit.ly/SEPTAjobs

LOCAL JOB BOARDS

Many local and national partners list career opportunities through online job boards.

- **Diversity Joint Venture for Conservation Careers:** bit.ly/ConservationCareer
- **Generocity:** generocity.org/jobs/
- **Kleinman Center for Energy Policy:** bit.ly/EnergyIntern
- **Next City:** bit.ly/NextCityJob
- **Philadelphia Energy Authority:** bit.ly/PEAjobs
- **Sustainable Business Network:** bit.ly/jobSBN
- **Young Professionals in Energy:** ypenergy.org/jobs

CAREER TRAINING PROGRAMS

Looking to build your skills or switch careers? Check out these local job training opportunities:

- **Energy Coordinating Agency's Knight Training Center:** Provides instruction and hands-on training on energy efficiency, environmental remediation, and renewable energy. bit.ly/ECAtraining
- **Philadelphia Opportunities Industrialization Center and PECO:** An eight-week job training program offering placement services for energy-oriented careers. bit.ly/EnergyTrainingPHL
- **PowercorpsPHL:** A City of Philadelphia AmeriCorps initiative engaging young adults and returning citizens to enter and succeed in environmental service careers. bit.ly/Powercorps
- **YouthBuild Philly:** Offers residents without high school degrees hands-on learning in transforming abandoned properties into comfortable and affordable homes. bit.ly/PHLYouthBuild

FOR YOUNG PEOPLE

- **Mayor's Internship Program:** Undergraduates entering their junior or senior years and graduate students are invited to apply for this paid internship. bit.ly/MayorIntern
- **Philadelphia Youth Commission:** Young people can help make the city a better place by joining a committee on youth violence, programming, policy, health, or education. bit.ly/PHLYouth

Residents between the ages of 12-23 can join the Philadelphia Youth Commission. Residents between the ages of 23-34 can join the Millennial Advisory Commission.

- **SEPTA Youth Advisory Council (YAC):** SEPTA riders between the ages of 16 – 23 can join to help connect youth to the region's public transportation network. bit.ly/SEPTAYAC
- **Student Board Representative:** 11th and 12th grade students in the Philadelphia School District can apply to join the Board of Education. bit.ly/StudentRepPHL
- **Sunrise Philadelphia:** Join the youth-led movement to stop climate change and create good jobs and a livable future in Philly. bit.ly/SunrisePHL
- **WorkReady Program:** Residents between the ages of 14-21 can apply for summer employment at sites across the city. bit.ly/WorkPHL

How to Garden Safely in Philadelphia

Under the leadership of Ash Richards, the Director of Urban Agriculture, Philadelphia Parks and Recreation kicked off the planning process to create Philadelphia's first ever Urban Agriculture Plan in 2019. The project is being supported by Soil Generation, a Black and brown-led coalition of gardeners, farmers, individuals, and community-based organizations; and Interface Studios, a local city planning and urban design firm.

Philadelphia has a rich history of agricultural practices that are rooted in African American, immigrant, and refugee communities. Many of these community spaces have been nurtured for generations. Urban agriculture is healing, it produces healthy and low-cost food, and it can provide a path to self-reliance and determination. Check out our tips on how to garden safely in Philadelphia!

Photos by Ali Mendelson.



1

Use Raised Beds

Much of Philly's land has been used for industrial or commercial operations. That means the soil may be contaminated with heavy metals like lead. Plant in raised beds to avoid contact with contaminated soil. Consider lining the raised bed with a barrier like landscaping fabric or cloth. This helps control weeds and keeps plant roots from growing into the ground soil.



These photos are from a series of workdays held at five community gardens throughout the city in 2016. The project was supported by the Philadelphia Department of Public Health, Philadelphia Food Policy Advisory Council, Philadelphia Land Bank, and Philadelphia Department of Parks and Recreation. Throughout the project, close to 500 people learned about soil safety, built raised beds, and took steps to limit soil contamination in the following gardens:

- HANNAH HOUSE GARDEN (911-25 W. Auburn St.)
- PENN KNOX GARDEN (5335 Green St.)
- 5 LOAVES AND 2 FISHES GARDEN (55th St and Jefferson Ave.)
- 25TH AND TASKER GARDEN
- SMITH-BARRICK PLAY GARDEN (2046-52 E. Hagert St.)
- HANSBERRY GARDEN (5150 Wayne Ave.)

2

Use Compost

Adding compost to your soil reduces the concentration of contaminants that might be in the soil. Compost also helps grow healthier plants because it is full of nutrients.



3

Cover Soil

Cover walkways and common areas to limit contact with soil dust. Soil dust may contain harmful contaminants like lead. Use materials like mulch, wood chips, landscape fabrics, or stones. You can also plant grass or other ground covering plants to prevent tracking contaminated soil into your home.

Cover the area around your plants to reduce soil contamination. Salt hay is a good material because it helps keep the soil moist.



ACTIVITY

4

Wash Hands and Wear Gloves

Always wash your hands after working in soil and make sure to wear gloves. This prevents soil from getting on your hands and then into your mouth. Make sure to use soap and water, not hand sanitizer.



5

Leave Soil in the Garden

Leave tools, boots, and gloves outside. Clean off or take off dirty clothes and shoes before going inside. Soil can turn into soil dust, which is then breathed into your body.



Wash and Peel Produce

Wash all produce before eating it. This is especially important for leafy vegetables like lettuce, collards, spinach, and kale. You can also remove the outer leaves before washing.

Peel all root vegetables like potatoes, turnips, and beets. They grow deep in the soil so washing and peeling these vegetables after harvest will prevent you from accidentally eating soil.



Know What to Grow

Avoid growing root vegetables and leafy greens in contaminated soil. Fruiting plants like tomatoes, cucumbers, squash, apples, and peppers are less likely to be affected by contaminated soil.

Keep an Eye on Children

Children can follow this guide too! Children are still growing and developing so contaminants like lead are especially harmful. Children are also more likely to put their hands in their mouths and may accidentally eat soil.



Create a Garden for All to Enjoy

Consider building your raised beds at different heights. A height of 20 inches is good for small children. A height of 24 inches is good for someone seated in a wheelchair. A height of 30 inches is good for someone who prefers to stand. Consider creating wider garden paths for wheelchair and walker accessibility.

**WANT TO STAY UP
TO DATE ON URBAN
AGRICULTURE IN
PHILLY?** Check out
phillyagplan.co/roots
to learn more!

Food Policy Advisory Council



What is FPAC?

Food policy councils bring together residents and local government to make decisions about food related issues. Started in 2011, the Philadelphia Food Policy Advisory Council (FPAC) is led by 30 mayoral appointees. Philly's FPAC members have worked to protect funding for SNAP, provided policy recommendations on healthy food access in Philadelphia schools, and developed the Guide to Fair Labor for Good Food Businesses, which helps local food industry employers to implement fair labor practices.

Like food policy councils across the country, FPAC has historically catered to people working professionally in the food system, such as City officials, nonprofit workers, business owners, and academics. While their contributions are necessary and valuable, this bias makes invisible the people who are enacting community-based solutions to food inequities and struggling with food systems challenges, such as a family experiencing food insecurity or a food worker who doesn't make a livable wage.

FPAC Subcommittees

- Anti-Hunger
- Food & Health
- Good Food Procurement
- Urban Agriculture
- Workforce & Economic Development
- Zero Waste
- Communications & Outreach
- Governance & Membership

Looking back

Four hundred years after the first enslaved Africans were brought to this country to work the land and more than 70 years since red lines were drawn across our city declaring which neighborhoods were worthy of investment, we are still suffering from the effects of this deep history of racist policies. This history still determines which communities are more likely to experience hunger, suffer from diet-related diseases, grow and cook our food, and which communities are more likely to control land and have a voice in political processes. **What role can a local food policy advisory council play to make amends for this history?**

For generations, Philadelphia's most marginalized communities have worked to preserve their culture, heal their people, and feed their communities. From growing nourishing foods in backyard gardens and community farms to serving up free breakfasts through faith-based and neighborhood centers, Philadelphia's immigrants, refugees, working people, and people of color have provided innovative solutions to our city's food problems. **How can a food policy council learn from and amplify this wisdom?**

Looking ahead

In 2020, FPAC will host community conversations with Philadelphia residents who are most burdened and marginalized by our food system, historically and currently. FPAC will listen to them, compensate them for their time, provide childcare and delicious food, and follow their lead.

With this wisdom, FPAC will transform its day-to-day operations to reflect what residents and communities need to affect policy change and influence City government. FPAC doesn't yet know where this journey will take it, but it does know that a Philadelphia with food policy crafted by people who have the most at stake in changing a system often referred to as "food apartheid" will result in a more just, delicious, and nourishing place for all!

FPAC is not alone in this work. Concurrently Philadelphia Parks and Recreation, Soil Generation, and Interface Studios are working with our city's gardeners and growers to create Growing from the Root—Philadelphia's first urban agriculture plan. To get involved, find out more, and share your ideas, visit www.phillyagplan.co/roots. 🌱

We hope you will join us as we strive to transform the root causes of food inequities and democratize our food system.

Get Involved!

All FPAC subcommittee, general, and executive meetings are open to the public. Learn more at www.phillyfpac.org/getinvolved/

- Join FPAC's mailing list
- Follow @PhillyFPAC on social media
- Attend a general meeting
- Attend an executive meeting
- Join a subcommittee
- Nominate yourself or someone else for FPAC



FPAC welcomes questions, comments, feedback, and suggestions. Get in touch by emailing fpac@phila.gov.

COMMUNITY GROUPS:

Small grants
to help keep
your block
beautiful.



Soak It Up
Adoption

Check eligibility at:
water.phila.gov/adoption

PHILADELPHIA
WATER
DEPARTMENT

NEIGH-
BORHOOD
GEM

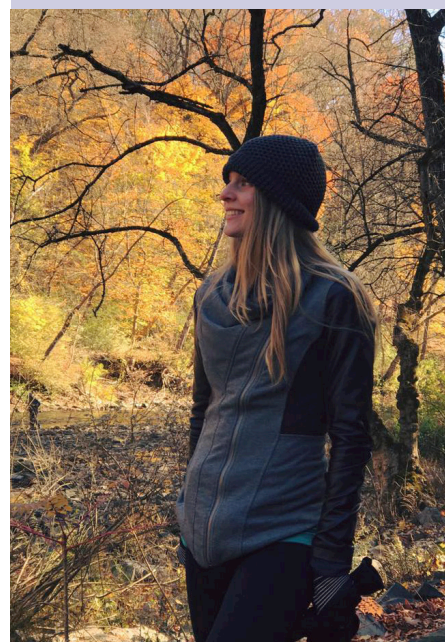
Nicole Matthesen

NEIGHBORHOOD

Old City

DELAWARE RIVER WATERFRONT CORPORATION

My neighborhood gem is the redeveloped piers along the Delaware River and the plans to transform more piers and vacant areas into ecological parks that support the environment, wildlife, and people. All along the Delaware River, there's a beautiful opportunity to create connections and provide public spaces for enjoyment. It's important for the future of our city as we expand and grow and work to fight climate change.



ART AND ACTIVISM

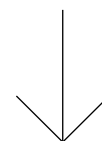


As Above, So Below

SHASTA BADY is an artist living and working in Philadelphia. As a Philly native, her work often documents life in the city. *As Above, So Below* is her most recent project. It highlights the interconnectedness of Philadelphians using public transportation through portrait photography.

"Time after time, I ask myself: Why is it important to be on SEPTA? Why is it important to take these portraits? Why are other voices important? SEPTA is a civic space and sharing these stories is important."

[READ THE FOLLOWING
PAGES TO LEARN MORE ABOUT
SHASTA BADY'S WORK!](#)



Q: Why are you interested in portrait photography? A: Photography presents a meditative stillness that I find rejuvenating. It has always proven itself as a historic tool for documentation, memories, and interpretation. Photography is the perfect time capsule and a powerful catalyst for reflection. I want my photographs to capture the integrity of the human spirit.

Q: What drew you to public transit for the *As Above, So Below* series? A: After a transformative car accident, I was forced to be a passenger. No longer in the driver's seat of my own vehicle, I started using public transportation and quickly experienced the erratic nature of public transportation. I used it to navigate within the city of Philadelphia and enjoyed the unpredictability of all my different encounters. Each day traveling on public transportation was a different experience filled with complex conversations, genuine connections, and undoubted dynamics. Those moments on public transportation showed the humor, trauma, and resilience of the passengers.

Q: What kind of impact did you want to make with your *As Above, So Below* series? A: Public transportation fosters relationships that aren't always defined by norms around gender, race, and class. People can simply be themselves. It is important for people to see themselves in their cities. My goal as a photographer is to celebrate different forms of beauty and continuously question the traditional, fixed idea of beauty—a narrative that is always changing. I created *As Above, So Below* to celebrate the depth of our connectedness and commonalities and wanted the series to invite people to see the art in our everyday environments.

Q: Why is public transit an important part of a thriving city? A: Public Transportation is a bridge that connects communities, cultures, and daily traditions. Riding transportation in different communities show disparities in poverty, reveals privilege, and everything in between. It creates a space where people meet in unpredictable ways. Public transportation

opens opportunities for new relationships and unexpected dialogue. These encounters are short-lived but have the power to form more lasting bonds. Overall, it is a means of uniting people through travel.

Q: You describe yourself as an aspiring scientist, visual artist, and sporadic papermaker. What got you into these mediums? A: Encompassing the art, authenticity, depths of all parts of life come very naturally to me, I gravitate to science as it teaches me different methods of being solutions-oriented and authentic reasoning to the most complex elements of life. Papermaking is moving meditation in the water while photography's art form allows me to focus more on the depths of capturing the moment. Each of these is different but essentially requires the same thought process. These artistic mediums help me to be completely submerged in the practice and tactile. 🌟







How Well Do You Know Philly's Transit System?

If you're a Philadelphia resident, you've probably spent time on public transit in our city. Although many of us know how to use our city's trains, subways, and buses, how well do you really know the history and features of transit?

Fill out this quiz and check out page 47 for the answers. Then share it with a friend and compare your scores!

Question 1

How many transit agencies service the City of Philadelphia?

Question 2

What year were tokens introduced as a payment option for Philadelphia transit?

Question 3

Which SEPTA line carries the largest number of passengers? The Market-Frankford line or the Broad Street Line?

Question 4

Which SEPTA mode carries the largest number of passengers? The Regional Rail, Subway/Elevated Line, Trolley, or Bus?

Question 5

Where does SEPTA rank in terms of total ridership among U.S. transit agencies?

Question 6

What is one SEPTA bus route that runs 24 hours a day?

Question 7

How much does one ride on SEPTA cost with SEPTA Key?

Question 8

When was the Broad Street Line completed?

Question 9

How many electric buses does SEPTA operate?

Question 10

How many metric tons of carbon dioxide does Philadelphia avoid collectively thanks to transit riders?

QUESTION:

What else is happening with Philly transit?

ANSWER:

Lots! Here are a few other things you may not know:



FREE OR REDUCED TRANSIT FARES

SEPTA, PATCO, and NJ Transit all provide discounted fares for some riders, including students, older riders, and riders with disabilities.



PERKS FOR SEPTA KEY USERS

Want to get free admission to a museum or discount on your next ice cream cone? Visit www.iseptaphilly.com/perks to learn how your SEPTA Key can get you there!



CHANGES ARE COMING

In 2019, SEPTA completed the redesign of 15th Street Station, making one of the city's busiest transit hubs accessible to residents and visitors with disabilities for the first time. More changes are on the way in 2020 and beyond:

- **MFL CHANGES:** The Market-Frankford Line is SEPTA's busiest line, and it just got easier to get on board. Starting this spring, all MFL trains stop at all stations, and more trains will run during rush hour.
- **FRANKLIN SQUARE STATION:** If you've ever taken the PATCO Speedline from Camden into Center City, you may have noticed the train passing by a stop called "Franklin Square." PATCO has received a federal grant to begin planning the re-opening of this station in Chinatown and expects to launch the effort later in 2020.
- **BUS NETWORK REMAPPING:** Some of SEPTA's bus routes date back to the era of horse-drawn trolleys. SEPTA and the City want to find out how Philadelphia's bus network can work best for riders in the 21st century. Stay tuned for more information on how you can get involved!

To learn more, contact SEPTA Customer Service at 215-580-7800.

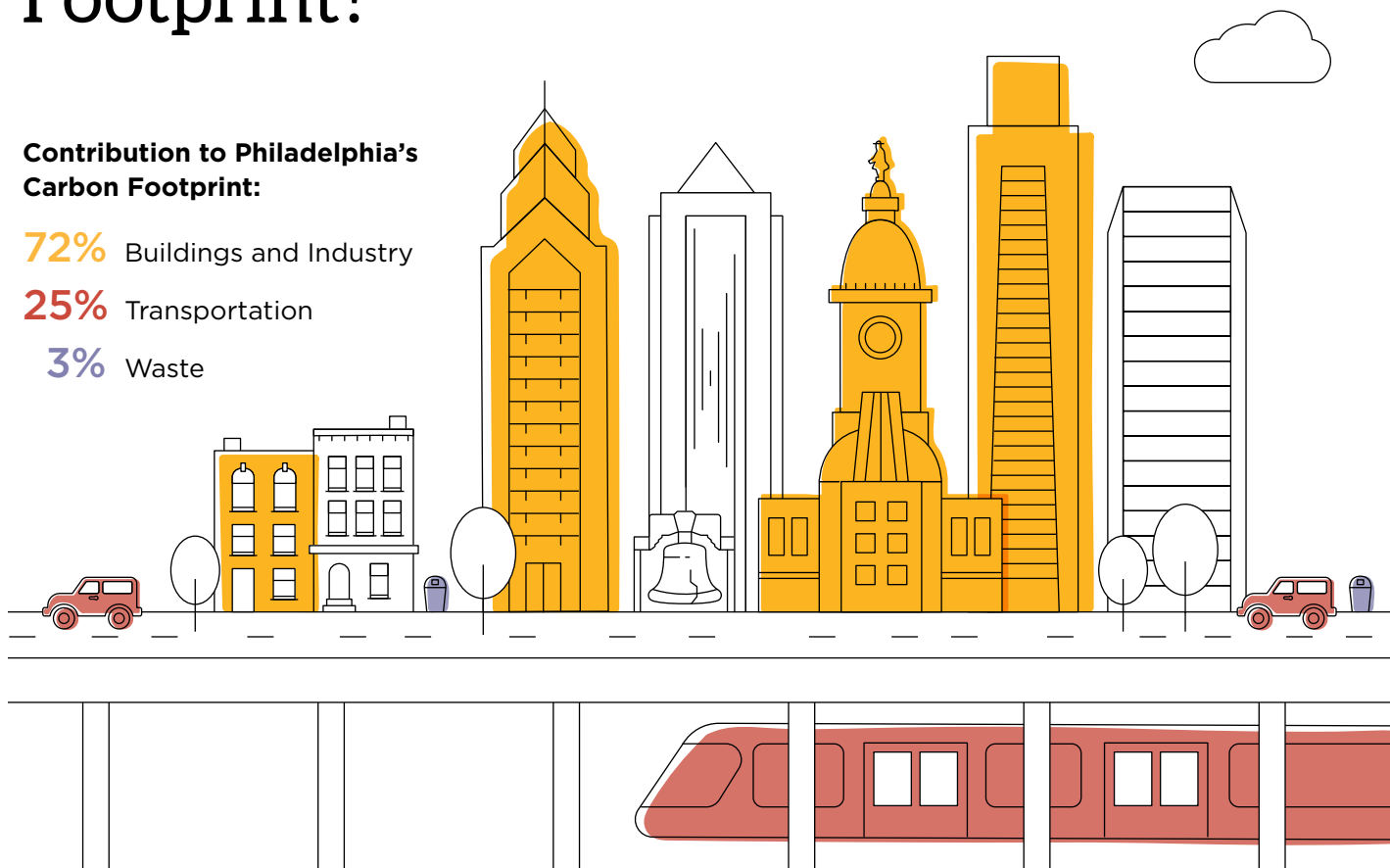
What Shapes Philadelphia's Carbon Footprint?

Contribution to Philadelphia's Carbon Footprint:

72% Buildings and Industry

25% Transportation

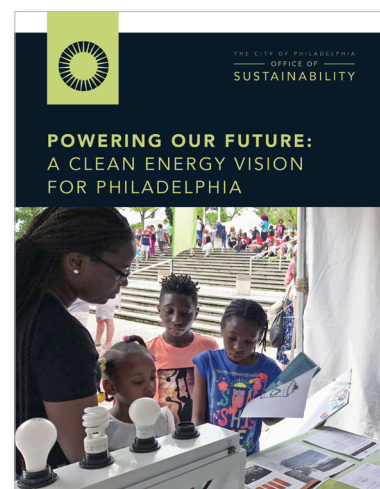
3% Waste



Throughout the *Greenworks Review*, you'll find references to climate change. Climate change is a global problem facing Philadelphia and elsewhere throughout the world. It is caused by human activity that releases carbon dioxide and other "greenhouse gases" that warm our atmosphere and leads to higher global temperatures. We are already experiencing the impacts of climate change today, through heat waves, severe storms, and flooding.

We know that every step we take to limit the release of greenhouse gases today will help leave a better world for Philadelphians tomorrow. In Philadelphia, most of our "carbon footprint" (a measure of the release of greenhouse gases) comes from our buildings and industry. Transportation and waste also contribute to our carbon footprint.

To learn more about climate change and what the City of Philadelphia can do about it, check out the report to the right. *Powering Our Future: A Clean Energy Vision for Philadelphia* provides a roadmap to achieving Mayor Kenney's goal of reducing carbon emissions 80% by 2050. It highlights actions you can take at the local, state, and federal levels.



POWERING OUR FUTURE
bit.ly/EnergyVisionPHL

City of Philadelphia Tracks Progress on Key Energy Programs

To do our part to limit the worst impacts of global climate change, Philadelphia needs to reduce the amount of carbon dioxide and other heat trapping gases released into the atmosphere. These gases contribute to the climate emergency, and in our city, most of it comes from the energy used in our homes and businesses. The City of Philadelphia has been working to cut those emissions through programs and policies aimed at both City-owned buildings and the largest privately owned buildings, the largest contributors to carbon emissions. Read on to learn more about updates to two carbon cutting programs in Philadelphia!

City Government Makes Strides toward a Clean Energy Future

The *Municipal Energy Master Plan 2020* update shares the City's progress towards meeting its four goals to reduce energy use, expand renewable energy, lower carbon pollution, and reduce energy costs in municipal operations.

The report provides updates on the City's progress towards meeting its goals around energy and climate. Some of the highlights of the report include:



Preliminary emissions inventory shows a 33% decrease in carbon emissions from the 2006 baseline. This means the City is on track to meet its goal of reducing climate change causing carbon pollution in City facilities and street lighting 50% by 2030.



The multi-million-dollar energy efficiency project at the Philadelphia Museum of Art is near completion. It is on track to exceed its targets for energy reduction, job creation, and inclusion of diverse businesses like those owned by women, minorities, and people with disabilities.



The Office of Sustainability continues to partner with departments throughout City government to deliver energy reducing technologies, enhanced designs and employee education campaigns.

"This report highlights the progress that City departments have made towards our aggressive climate mitigation goals and shows how the City continues to lead on climate," said Mayor Jim Kenney. "Projects like LED street lighting will sustain our progress while providing all Philadelphians with safer streets and better service."

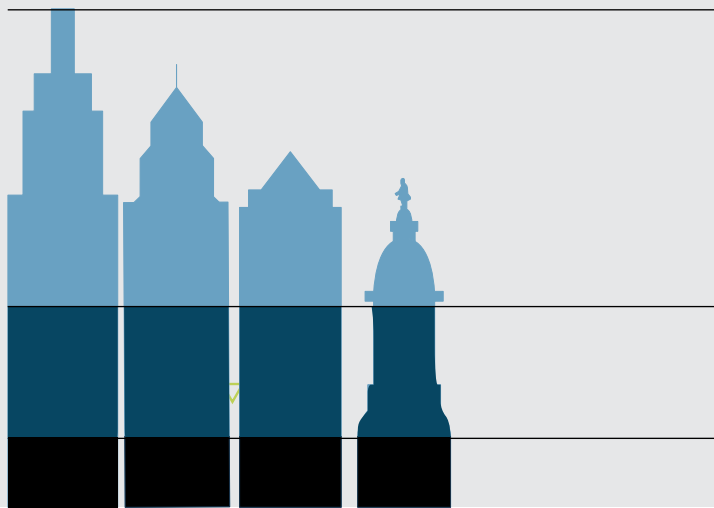


Workers outside the Philadelphia Museum of Art lift a new, high-efficiency chiller off the delivery truck.

The City's Energy Office will continue to focus on implementing the energy master plan in the year ahead by completing the Philadelphia Museum of Art project, breaking ground on a new solar installation in Central Pennsylvania that will provide 22% of the City's electricity, and leading an engagement process around citywide LED street lighting.

Join our newsletter at www.phila.gov/green to stay up-to-date on these initiatives and other progress toward a more sustainable Philadelphia 🌱

Carbon Emissions of Philadelphia's Benchmarked Buildings



Total Citywide Carbon Emissions

70% Carbon Emissions from Buildings and Industry in 2016

15% Carbon Emissions from Buildings benchmarked in 2016

Philadelphia's Biggest Buildings Lead on Cutting Energy Waste

Since 2013, Philadelphia's largest buildings have been required to report their energy and water usage and carbon emissions to the City of Philadelphia, which makes the data available to the public. This process, called building energy benchmarking, helps building owners and managers compare energy performance with similar buildings, set goals, and commit to making improvements in their facilities.

This information is important because it also helps the City plan to fight climate change. Although the city's largest buildings make up a fraction of the total number of buildings in Philadelphia, the largest buildings in the city are responsible for 15% of citywide carbon emissions. Programs that promote energy efficiency and cut carbon emissions, such as building energy benchmarking and the recently passed Building Energy Performance policy (see page 4), are essential in reaching Mayor Kenney's goal to reduce citywide carbon emissions by at least 80% by 2050.

To share progress from this program, the Office of Sustainability published a progress report in fall 2019. Some of the key findings of the report include:

- Buildings that have been participating in the benchmarking program since 2013 have collectively cut carbon pollution 12%.
- Philadelphia's benchmarked buildings have demonstrated a 5% reduction in overall energy use. More than half of all buildings that report every year have achieved energy savings.
- The average building in Philadelphia outperforms similar buildings across the nation by five points on a one-to-100 scale. 🌟

ENERGY BENCHMARKING SUPPORTS SEVERAL GREENWORKS VISIONS:



Use clean, efficient, affordable energy

Benchmarking identifies opportunities for building owners and tenants to reduce energy use and save money on their utility bills.



Breathe healthy air inside and outside

People spend nearly 90% of their time indoors. Benchmarking helps owners identify opportunities to improve resident comfort and indoor air quality.



Benefit from sustainability education, employment, and business opportunities

Benchmarking provides free technical assistance to help building owners and managers use energy management software and understand the results of their building metrics. The publicly-disclosed data can also help tenants, brokers, and other stakeholders make more informed decisions in the marketplace.

There are still many opportunities to reduce energy and carbon emissions in Philadelphia's largest buildings but Philadelphia is headed in the right direction. Interested in seeing how a big building in Philadelphia stacks up? Benchmarking data is publicly available at www.visualization.phillybuildingbenchmarking.com. Check it out!

Curbside 101

HOW TO SET YOUR TRASH OUT

LIDDED
TRASH CAN

BULK
TRASH ITEM
UP TO 2
PER WEEK

RECYCLING
BIN

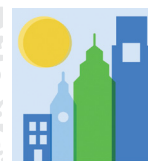
TAKE
ELECTRONICS
TO YOUR SANITATION
CONVENIENCE CENTER

TIE
YOUR BAGS

PLASTIC CONTAINER
ONLY

Find your **SANITATION
CONVENIENCE CENTER**
on page 36.

www.phila.gov/recycle #CleanPHL



CLEAN
PHL

Philly Recycling Guide

Recycling must be put out in hard-sided bins labeled **RECYCLING**.



EVERYTHING THAT CAN
AND CAN'T GO INTO YOUR
RECYCLING BIN!

✓ PUT THESE IN

PAPER

**Remove from plastic sleeves/
bags**

Newspapers and Inserts
Magazines, Brochures, and
Catalogs
Junk Mail, Envelopes, Writing
Paper
Scrap Paper
Paper Bags
Phone Books
Paperback Books
(no hardbacks)
Greeting Cards, Gift Wrap
(non-metallic)



PLASTICS

Emptied & rinsed, lids & caps on

All Food and Beverage Containers
Hard Plastic Takeout Containers
Detergent and Shampoo Bottles
Pump and Spray Bottles
Plastic Bottles & Jugs #1, #2 & #5



METALS

Emptied & rinsed, lids & caps on

Aluminum, Steel, and Tin Cans
Empty Paint Cans
Empty Aerosol Cans
Aluminum or Steel Baking Trays/Dishes
Jar Lids and Bottle Caps on Empty
Containers



CARTONS

Emptied & rinsed

Milk
Juice
Wine
Soup



CARDBOARD

Flattened & free of grease & food

Corrugated Cardboard Shipping
Boxes
Clean (not greasy) Pizza Boxes
Paper Towel Rolls
Egg Cartons (cardboard only)
Dry Food Boxes



GLASS

Emptied & rinsed, lids & caps on

All Bottles and Jars



✗ KEEP THESE OUT

Food & Food-Soiled Materials

**Disposable Plates, Cups &
Takeout Containers**

**Greasy or Food-Soiled Paper &
Cardboard**

Styrofoam™

Batteries & Electronics

Needles & Syringes

Clothing Hangers

Tissues, Paper Towels & Napkins

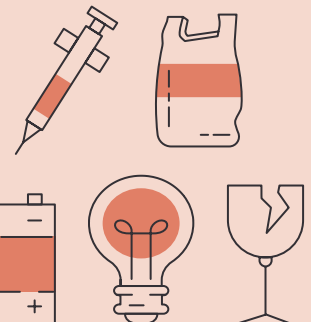
Pots, Pans & Ceramics

Aluminum Foil

Wood

Plastic Bags

Shredded Paper



For information on how to dispose of other waste, check out page 36 or visit www.philadelphiastreet.com.

Need a recycling bin or materials for your garden or yard? Want to dispose of something responsibly? Here's your guide to...

PHILLY TRASH AND TREASURES

SANITATION CONVENIENCE CENTERS

Northeast Philadelphia Convenience Center
STATE RD. & ASHBURNER STREET

Northwest Philadelphia Convenience Center
DOMINO LANE & UMBRIA STREET

Port Richmond Convenience Center
3901 DELAWARE AVENUE

Southwest Philadelphia Convenience Center
3303 S. 63RD STREET

Strawberry Mansion Convenience Center
2601 W. GLENWOOD AVENUE

West Philadelphia Convenience Center
5100 GRAYS AVENUE

NORTHEAST

Councilman Brian J. O'Neill
1701 BOWLER STREET

Frankford CDC
4667 PAUL STREET

Gambrel Recreation Center
1900 WAKELING STREET

Jardel Recreation Center
1400 COTTMAN AVENUE

New Kensington CDC
2515 FRANKFORD AVENUE

Picariello Recreation Center
10801 CALERA ROAD

South Kensington Community Partners
1301 N. 2ND STREET

State Representative Jared Solomon
7012 CASTOR AVENUE

State Representative Kevin Boyle
7420 FRANKFORD AVENUE

State Representative. Angel Cruz
3503 NORTH B STREET

State Senator John P. Sabatina
12361 ACADEMY RD.

NORTHWEST

Awbury Recreation Center
6101 ARDLEIGH STREET

Councilman Bobby Henon
6730 TORRESDALE AVENUE

Councilwoman Cherelle Parker
1538 E. WADSWORTH AVENUE

Gustine Recreation Center
4863 RIDGE AVENUE

Mt. Airy USA
6703 GERMANTOWN AVENUE

State Representative Chris Rabb
7216 GERMANTOWN AVENUE

NORTH

Asociación Puertorriqueños en Marcha (APM)
600 W. DIAMOND STREET

Councilman Darryl Clarke
2815 RIDGE AVENUE

Councilwoman Cindy Bass
4439 GERMANTOWN AVENUE

Councilwoman Maria Quiñones Sánchez
3150 MASCHER STREET

Esperanza
4261 N. 5TH STREET

Greater Philadelphia Asian Social Services (GPASS)
4943 N. 5TH STREET

HACE
2708 N. 5TH STREET

Nicetown CDC
4300 GERMANTOWN AVENUE

Olney Recreation Center
100 E. GODFREY AVENUE

State Representative Donna Bullock
2835 W. GIRARD AVENUE

SOUTH

Diversified Community Services
1529 S. 22ND STREET

Gray Ferry Council
1501 S. 29TH STREET

Queen Village Neighbors Association
415 QUEEN STREET

South of South Neighborhood Association
1901 CHRISTIAN STREET

State Senator Larry Farnese
1802 S. BROAD STREET

Whitman Council
2455 S. 3RD STREET

SOUTHWEST

Councilman Kenyatta Johnson
5803 KINGSESSING AVENUE

Eastwick Recreation Center
80TH AND MARS PLACE

Southwest CDC
6328 PASCHALL AVENUE

WEST

ACHIEVEability
59 N. 60TH STREET

Christy Recreation Center
728 S. 55TH STREET

Councilman Curtis Jones
5300 WYNNEFIELD AVENUE

Lee Cultural Center Recreation Center
4328 HAVERFORD AVENUE

Parkside Evans Recreation Center
5300 PARKSIDE AVENUE

CENTER CITY

Councilman Mark Squilla
1400 JOHN F. KENNEDY BLVD. CITY HALL, ROOM 332

FAIRMOUNT PARK ORGANIC RECYCLING CENTER

3850 FORD ROAD

PICK UP

Compost
Mulch
Manure

DROP OFF

Leaves
Grass Clippings
Wood Chips
Brush
Herbivore Manure

SANITATION CONVENIENCE CENTERS

These six sanitation centers accept:

Automotive tires

Appliances

Christmas trees

Collectible rubbish

Recyclable materials

Mattresses and box springs (unwrapped)

Yard waste in paper bags

Latex or water-based paint cans that are partially full can be solidified by adding an absorbent material such as kitty litter or newspaper prior to disposal

E-waste, including computers, monitors, televisions, and other computer-related equipment

RECYCLING BIN PICKUP LOCATIONS

Get a bin from any sanitation convenience center or from these community partners that offer neighborhood locations to pick up a bin.

For more information visit www.philadelphiastreets.com

ACTIVITY

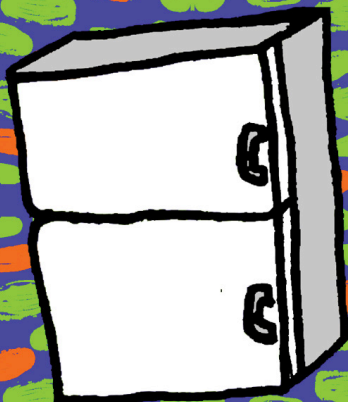
City-wide Litter Index

When mobilizing against the issue of litter and illegal dumping, identifying the most commonly littered items is a great first step. That's why the Citywide Litter Index was created. It helps us understand the how, why, where, and what of litter in Philadelphia. Local groups like Trash Academy are already working to understand and address the issue of trash. They create fun yet informative games. We've borrowed their illustrations to create our own game based on the Litter Index. **Can you rank these items from most-to-least common in Philadelphia?**

DIRECTIONS

Cut on the dotted lines then sort the cards from most-to-least common in Philadelphia.

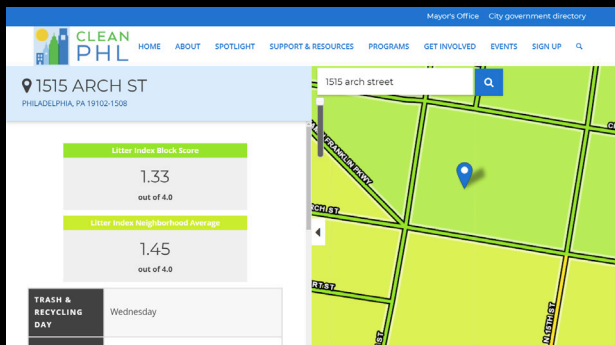
Each card has an image on the front and a fun fact on the back.



TRASH ACADEMY is a project of Mural Arts Philadelphia's Restored Spaces Initiative. The group uses art and creativity to transform communities and shift perspectives. Trash issues are often seen as behavioral issues but Trash Academy works to reveal systemic injustice. Following the principles of environmental justice, the intergenerational group supports those most impacted by environmental challenges to be at the forefront of crafting solutions.

Learn more about Trash Academy at www.trashacademy.org.

ACTIVITY



Litter Index

Last year the Zero Waste and Litter Cabinet released its 2019 Litter Index Report. As part of the report, over 36,000 blocks in Philadelphia were surveyed, including streets, parks, recreation sites, public schools, SEPTA property, and more. According to the Litter Index, single-use disposables like paper, bottles, cans, and plastic bags are the most common across the city, while oversized materials like construction debris and furniture tend to be concentrated in certain areas.

Check out the Litter Index and find out how you can help keep Philadelphia on its path to becoming litter free!

TAKEOUT CONTAINERS OR DISPOSABLE PLATES/BOWLS

22%

Takeout containers are often made of Styrofoam, which is not recyclable. Plastic takeout containers are also no longer recyclable in Philadelphia.

DRINK BOTTLE OR CAN

22%

Bottles and cans are single-use and are recyclable curbside. Consider getting a reusable bottle to cut down on waste!

PAPER OR CARDBOARD

25%

Non-glossy paper and cardboard are recyclable curbside and can also be composted.

PLASTIC BAGS

13%

Philadelphia residents and visitors use one billion plastic bags each year. Plastic bags are not recyclable.

SNACK BAGS OR WRAPPERS

16%

The shiny lining in snack bags and candy bar wrappers is made of aluminum or mixed plastic, making these items not recyclable curbside.

DISPOSABLE CUPS, LIDS, OR STRAWS

21%

About 1% of all disposable cups, lids or straws are not recycled because most are lined with plastic. Get reusable cups, straws, and cutlery to cut down on waste!

Visit
www.cleanphl.org
to get started!

THANK YOU TO



FOOD WASTE

2%

Food waste is most common at SEPTA sites, green stormwater infrastructure assets maintained by PWD, and public shorelines.

CONSTRUCTION DEBRIS

9%

Construction debris is more common on blocks with the most trash and litter. It can be? a sign of illegal dumping.

ACTIVITY

How to Regrow Vegetables

An estimated 30-40% of the food supply in the United States goes to waste. This is caused by many reasons and can occur during harvest, processing, shipping, storage, retail, or once the food reaches the consumer. You can reduce your food waste by buying only what you know you'll use, donating unwanted packaged goods, and composting. Check out the guide below to learn how you can grow vegetables using food scraps!

— Avocado —






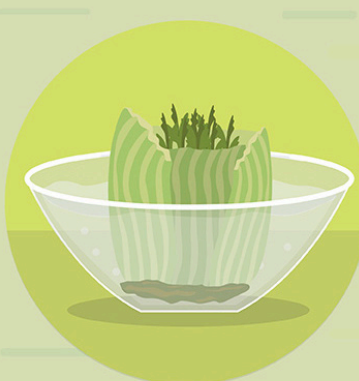
Use toothpicks to balance pit, root side down, in small jar of water

Place in sunlit area

Change water every day

When tree is seven to eight inches tall plant in 10-inch pot

— Celery —







Place celery base in small bowl with water, stalks facing upright

Place bowl in sunny area

Change water every other day

After five to seven days, move base to planter or garden and cover with soil up to leaf tips

— Green Onions, Leeks & Scallions —



Place greens in jar with water

Put jar on windowsill

Change water every other day

— Cilantro —



Place stems in jar of water

Place in sunny area

Change water every day

When roots grow, plant stems in a pot

— Basil —



Strip leaves from ¾ of stems



Place stems in jar of water



Place in sunny, but not too hot, area



Change water every other day



When roots grow to about 2 inches, plant stems in 4-inch pot

— Romaine Lettuce —



Place bottom of romaine hearts in a bowl with a ½ inch of water



Change water every day



Keep bowl in a sunny area



Once lettuce sprouts, plant hearts in garden

— Potatoes —



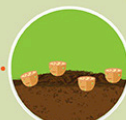
Cut potatoes into two pieces



Make sure each half has at least 1-2 eyes



Let pieces sit at room temperature overnight until they are dry to the touch

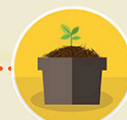


Plant about one foot apart in 8 inches of soil

— Tomatoes —



Rinse tomato seeds and allow to dry

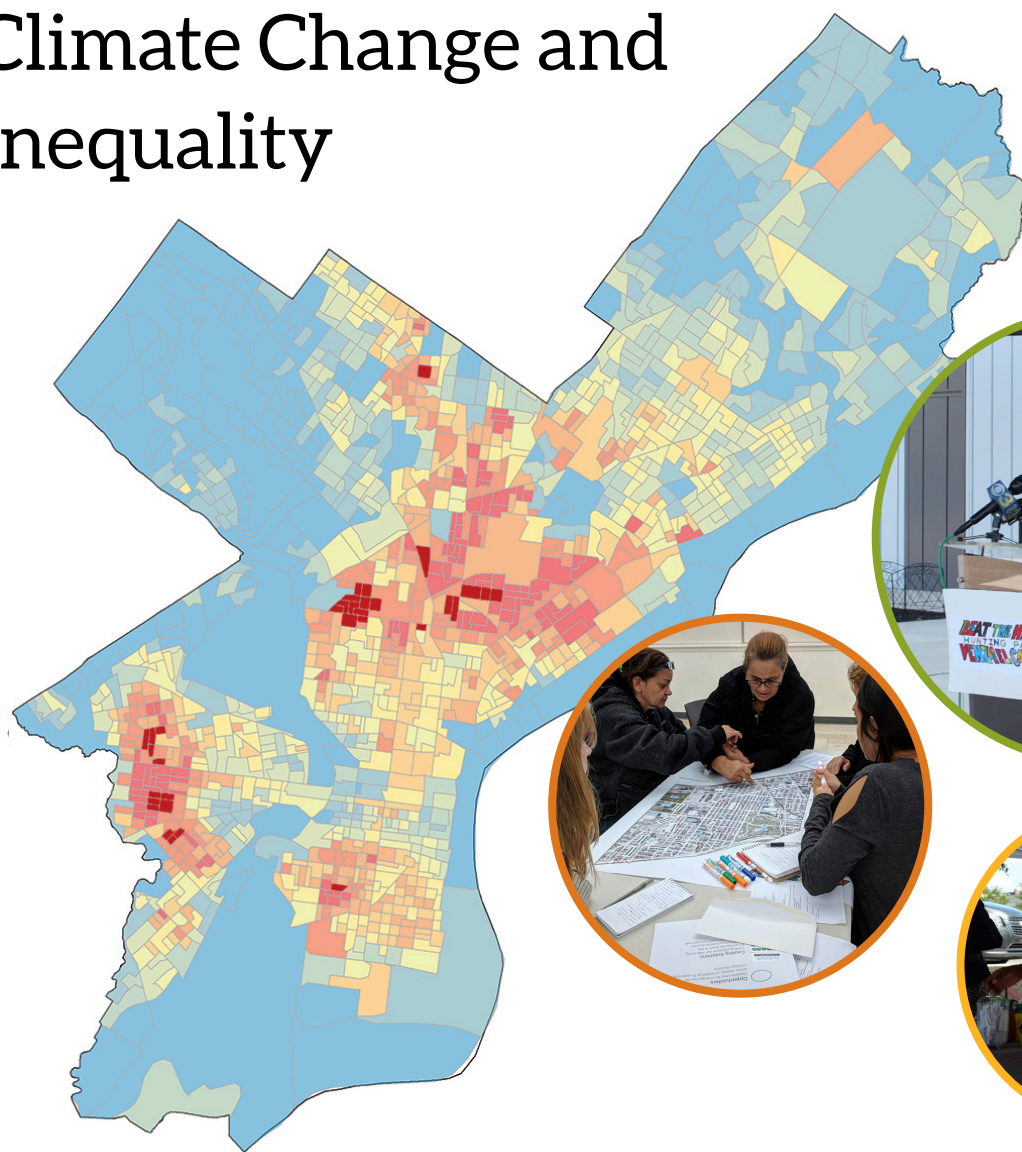


Plant in pot with soil



Once sprouts are a few inches tall, transplant them outdoors

Climate Change and Inequality



In 2019, Philadelphia and the rest of the world experienced the hottest July on record. Five days of the month were declared Heat Health Emergencies that required the activation of emergency services citywide to keep Philadelphians safe. That same summer, nine Heat Cautions were issued when the temperature rose above 95 degrees Fahrenheit for three or more days in a row.

As a public health issue and an environmental issue, extreme heat is a top concern. But, did you know that temperatures throughout the city will vary? In the summertime, some Philadelphia neighborhoods can be as much as 22 degrees warmer than other neighborhoods. Neighborhoods like Cobbs Creek, Point Breeze, Strawberry Mansion, and Hunting Park are among the hottest and most heat vulnerable neighborhoods in Philadelphia.

Hotter neighborhoods are more likely to have fewer trees and green spaces with more exposed asphalt and dark surfaces like black rooftops. The history of redlining and disinvestment in these neighborhoods means that the houses are more likely to be older and draftier which makes it harder to keep cool in the summer and warm in the winter. Low-income and communities of color are more likely to live in these hotter neighborhoods. This pattern of unequal exposure to risk tells us that climate change is not only a public health issue but also an issue of racial inequity.

As climate projections show hotter days to come, it is important to support residents as they work to make their communities more sustainable. For this reason, the City launched Beat the Heat, an initiative focused on communities that are most exposed to environmental stressors, especially extreme heat.

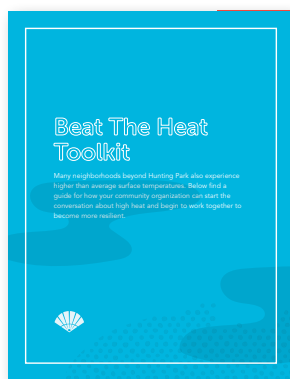
Beat the Heat HUNTING PARK

Hunting Park is a heat vulnerable neighborhood in North Philadelphia with an active environmental advocacy community. The Office of Sustainability teamed up with neighborhood organizations, including Esperanza, Hunting Park Neighborhood Advisory Committee, Hunting Park United, Lenfest Center, and North10 Philadelphia. By working together, the group engaged over 600 residents in an eight-month, community engagement process. Using lessons learned from community events, 530 survey responses, and the insights of over 40 residents who participated in a community design workshop, Philadelphia's first ever neighborhood heat plan was created. The plan was released in July 2019 to inform residents about what causes extreme heat. It also charts a pathway forward to short- and long-term solutions powered by residents. Recommendations from the plan are grouped into three priority areas:

STAYING
COOL AND SAFE
AT HOME

STAYING COOL
AND SAFE IN
PUBLIC SPACES

GREENING
AND TREE
PLANTING



bit.ly/HeatToolkit

Interested in helping your community be more resilient to heat? Check out the Beat the Heat Toolkit to learn how you can beat the heat!

WHAT'S NEXT?

Beat the Heat project partners received a grant from the federal Environmental Protection Agency to develop the Heat Relief Network—a network of people, places, and resources that already exist in the neighborhood to keep residents cool. One of the core drivers of the plan is the effort to increase community cohesion; a close-knit community is a major part of climate resilience as it can leverage community assets in a crisis, which is exactly what the heat relief network is designed to do.

WHAT YOU CAN DO TO STAY



IN PHILLY



STAY COOL

Avoid direct sunlight

Stay in air-conditioned buildings

Wear light, loose-fitting clothing



STAY HYDRATED

Drink plenty of water—don't wait until you're thirsty

Avoid alcohol, caffeine and sugary drinks (they can dehydrate you)



STAY INFORMED

Stay updated on local weather

Know the signs of heat-related illness



LOOK OUT FOR OTHERS

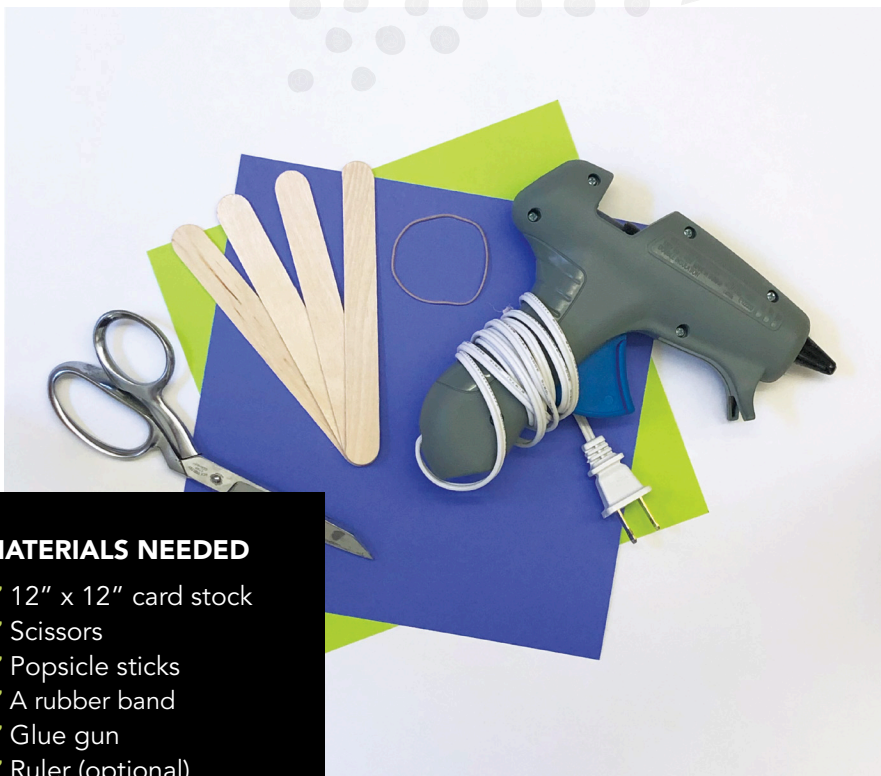
Check on elderly and homebound neighbors

NEVER leave people or pets in a parked car on a hot day

If you see someone experiencing homelessness who needs help, call 215-232-1984

If you think someone is having a medical emergency, call 911

How to Build a Hand Fan



MATERIALS NEEDED

- ✓ 12" x 12" card stock
- ✓ Scissors
- ✓ Popsicle sticks
- ✓ A rubber band
- ✓ Glue gun
- ✓ Ruler (optional)

01



— Fold and cut card stock into 4 equal pieces

— Fold first piece in 1/2-inch accordion-style pleats

Tip: Measure and score the card stock before folding for near-perfect pleats

— Trim any uneven ends

02

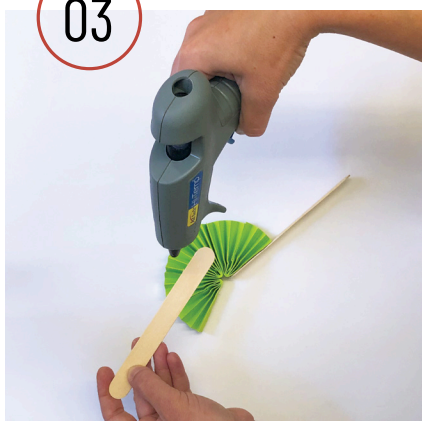


— Pinch the paper in the center and fold in half

— Glue ends together (Repeat x3)

— Glue folded pieces together

03



— Glue Popsicle sticks to the fan ends

04



— Tie popsicle sticks together with a rubber band

Free Resources

From fun, to cleaning and greening—Philadelphians have access to many free resources. Check out our guide to learn more.

CLEANING & GREENING

COMMUNITY LIFE IMPROVEMENT PROGRAM (CLIP)

☎ 311

✉ PHILLY311@PHILA.GOV

COMMUNITY PARTNERSHIP PROGRAM

Community groups, businesses, homeowners, and renters can schedule trash pickup and borrow supplies for cleanups.

bit.ly/CLIPprogram

VACANT LOT PROGRAM

Request a vacant-lot cleanup.

bit.ly/VacantLotPHL

FAIRMOUNT PARK ORGANIC RECYCLING CENTER

☎ 215-685-0108

PICKUP ORGANIC MATERIALS

Residents can get up to 30 gallons of free leaf compost, mulch, or woodchips.

bit.ly/OrganicRecycling

DISPOSE OF ORGANIC MATERIALS

Landscapers, garden centers, and contractors can purchase and dispose of organic materials.

bit.ly/OrganicRecycling

TREE PHILLY

☎ 215-683-0217

✉ TREEPHILLY@PHILA.GOV

YARD TREE

Request a free tree for your front, back, or side yard.

bit.ly/YardTree

HOST A YARD TREE GIVEAWAY

Become a community partner to get more trees planted in your neighborhood.

bit.ly/TreePhillyPartner

PARKS & RECREATION'S STREET TREE MANAGEMENT DIVISION

☎ 215-685-4363 OR 215-685-4362

✉ STREETTREE.INFO@PHILA.GOV

STREET TREE

Request a free street tree.

bit.ly/StreetTreePHL

STREET TREE MAINTENANCE

Request pruning and removal of dead and hazardous street trees and trees in neighborhood parks, recreation centers, and playgrounds owned by the City of Philadelphia.

bit.ly/StreetTreeHelp

PHILADELPHIA WATER DEPARTMENT

RAINCHECK PROGRAM

Get a free rain barrel and discounts on other green storm water infrastructure tools RainCheck@pennhort.org, 215-988-8767.

bit.ly/RainCheckPHL

SOAK IT UP ADOPTION GRANT

Community groups can get funding to implement, maintain, and share information about green stormwater infrastructure tools in their neighborhood. 215-683-3405.

bit.ly/GSIgrant

COMMUNITY RESOURCES

PHILADELPHIA ACTIVITIES FUND GRANT

Between March 1 - May 1, nonprofits can apply for \$500 - \$1,000 for things like supplies, materials, and other program costs. 215-683-8448, pafgrant@phila.gov

bit.ly/ActivityGrant

CIVIC ENGAGEMENT LEARNING SERIES

Participate in monthly workshops.

bit.ly/CivicWorkshops

PHILLY KEYSPOOT

Fifty free neighborhood computer labs located all over the city. Find a KEYSPOOT near you to browse the internet and get access to computer skills and job training. 215-686-5250.

bit.ly/KEYSPOT

PHL CITY ID

The Philadelphia Municipal ID is available for free for seniors. It is accepted by all City services and City-funded programs. Call 311 or visit the 311 walk-in center in Room 167 of City Hall.

bit.ly/PhillyID

FOR ELDER

PCA HELPLINE

Philadelphia Corporation for Aging connects seniors to services and resources. 215-765-9040 or TDD 215-765-9041.

bit.ly/PCAHelp


CENTRAL SENIOR SERVICES

The Parkway Central Library helps elders maintain healthy and active lifestyles by providing programs like estate planning, Medicare filing, book clubs, and more. 215-686-5331.

bit.ly/LibrarySeniorService

FUN & EDUCATION

FREE LIBRARY OF PHILADELPHIA

 **215-686-5322**

LIBRARY CARD

People that live, work, pay taxes, or go to school in Philadelphia can get free access to books, movies, music, and magazines.

bit.ly/LibraryCardPHL

EXPERIENCE PASS

Residents ages 18+ can get free access to local attractions like museums, historical sites, gardens, and more.


bit.ly/ExperiencePassPHL

CLASSES

The Free Libraries offer resources for English Language Learning (ELL), college prep, business, early literacy, cooking, sign language, and more.

bit.ly/LibraryProgramsPHL

PARKS & RECREATION

 **215-683-3600**

 **PARKSANDRECREATION@PHILA.GOV**

SWIM AT A NEIGHBORHOOD POOL

Visit an indoor or outdoor pool for free.

bit.ly/NeighborhoodPools

LEARN HOW TO SWIM

Take a swim class or participate in other activities with Swim Philly.


bit.ly/SwimPhilly

FIND A PARK OR ACTIVITY

Use the Parks & Recreation Finder to get involved in your local park.

bit.ly/ActivityFinderPHL

FAIRMOUNT PARK CONSERVANCY

 **215-988-9334**

 **INFO@MYPHILLYPARK.ORG**

EXPLORE FAIRMOUNT PARK AND MORE

Use the Philly Parks map to explore historic sites, watershed parks, walking trails, picnic sites, and more.

bit.ly/PhillyParksMap

SAFETY

SMOKE DETECTOR

Request a free smoke detector and smoke detector installation through Philly311. Call 311 or visit the 311 Walk-in Center in Room 167 of City Hall.

bit.ly/SmokeAlarmPHL

UTILITIES

BASIC SYSTEMS REPAIR PROGRAM

Free repairs for electrical, plumbing, heating, structural, and roofing emergencies in eligible owner-occupied homes. 215-568-7190.

bit.ly/HomeBasicRepair

EMERGENCY HEATER REPAIR HOTLINE

Emergency repairs to home heating systems. 215-568-7190.

bit.ly/EmergencyHeaterRepair

HELP

Zero interest loans for Philadelphia Water Department customers to make repairs to or replace lead service lines. 215-685-4901.

bit.ly/PWDHelp

LIHEAP

Federal grants to help pay home heating bills. 1-866-857-7095.

bit.ly/LiHEAPhelp

NEIGHBORHOOD ENERGY CENTERS

Apply for bill payment assistance, learn how to conserve water, gas, and electricity, and get energy counseling. 215-609-1000.

bit.ly/NeighborhoodEnergy

WATER QUALITY TEST

Philadelphia Water Department customers can request a free water-quality test. 215-685-6300.

bit.ly/WaterTestPHL

PECO CUSTOMER ASSISTANCE PROGRAM (CAP)

Get discounts on your monthly PECO bill. 1-800-774-7040.

bit.ly/PECOCAP

PECO SMART IDEAS PROGRAM

Rebates, incentives, and programs to help cut energy waste. 1-888-5-PECOSAVE.

bit.ly/SmartIdeaPECO

PGW ENERGYSENSE PROGRAM

Get support to improve efficiency and comfort in your home. 877-749-7658.

bit.ly/PGWEnergysense

CUSTOMER ASSISTANCE REFERRAL EVALUATION PROGRAM (CARES)

PGW provides payment assistance to residential customers with special circumstances like medical emergencies, unemployment, and other hardships. 215-235-1000.

bit.ly/PGWCustomerHelp

WATER BILL CUSTOMER ASSISTANCE

Issues paying your water bill? All water assistance programs, including TAP, now use one application. 215-685-6300.

bit.ly/PWDCustomerHelp

What are Natural Lands?

Philadelphia's forests, waterways, and meadows make up our natural lands. The City of Philadelphia has almost 6,000 acres of natural lands spread throughout our watershed parks (Fairmount Park, Wissahickon Valley Park, Pennypack Creek Park, Tacony Creek Park, Cobbs Creek Park, Poquessing Creek Park), and other parks like FDR Park. These areas make up 60% of our city's 10,200 acres of parkland.

The Natural Lands team is a very small but dedicated group within Philadelphia Parks & Recreation and the Fairmount Park Conservancy. They work to restore and protect our natural lands by planting native species and removing non-native and invasive species.

Get Involved!

01

To see a forest restoration project in process, head to the Fairmount Park Horticulture Center in West Fairmount Park. You'll find trails that meander through the forest and along the grounds.

02

Volunteer with the Natural Lands team by lending a hand at a cleanup on the second Saturday of every month. Volunteers help remove debris and invasive species, plant trees, and more.

www.volunteerphillyparks.ticketleap.com

03

Do you Love Your Park? Participate in Love Your Park cleanup days in May and November. Thousands of volunteers come out to clean, green, and celebrate more than 100 Philly parks each year.

loveyourpark.org

To learn more, visit myphillypark.org.

NATURAL LANDS

The Natural Lands team works all throughout the city. They even have their own nursery in West Fairmount Park called Greenland Nursery. Each year, thousands of native plants and shrubs are propagated from seeds, then eventually planted all throughout Philadelphia's parks.

Natural lands have a huge impact on the city. They not only provide habitat for wildlife, but they create an opportunity for Philadelphians to escape into nature. Natural lands prevent erosion, provide us with clean water, purify the air we breathe, and help combat climate change.

FOREST RESTORATION AT FAIRMOUNT PARK HORTICULTURE CENTER

The Natural Lands team recently **planted more than 5,000 native trees and shrubs** as part of a multi-year forest restoration project in West Fairmount Park. At the start of the project, this 30-acre forest was filled with invasive and non-native trees and plants that provided few, if any, ecological benefits to the site. The forests and Lansdowne and Montgomery creeks were also heavily degraded due to deer, erosion, and illegal dumping.

The first phase of the project involved the removal of thousands of non-native and invasive species, such as Norway Maple, Devil's Walking Stick, and invasive vines such as porcelain berry. Virtually no insects and other wildlife benefited from these species as they slowly took over the forest.

The team then planted the area with thousands of native trees and shrubs, such as oak and hickory, beech, ironwood, hornbeam, and holly, just to name a few. Not only are these species native to the area, but they're much more beneficial to insects, birds, and mammals than the non-native plants.

Connect the Native Plant to an Animal it Supports

Did you know that native plants provide much-needed habitat to birds, mammals, and other organisms? The following native plant species can be found at the Forest Restoration site at the Fairmount Park Horticulture Center. Can you connect the native plant to the animal it supports?

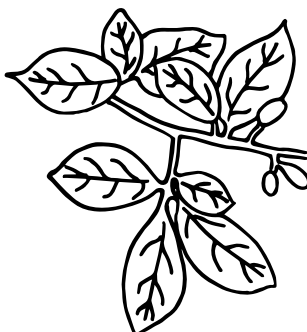
DIRECTIONS

Draw a line to connect the native plant to the bird or mammal it sustains.

Eastern Red Cedar
(*Juniperus virginiana*)



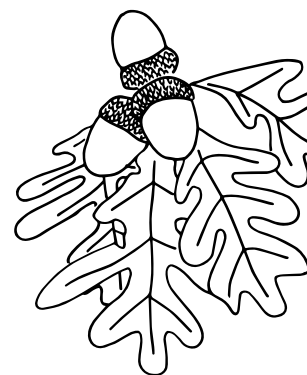
Spicebush
(*Lindera benzoin*)



Staghorn Sumac
(*Rhus typhina*)



White Oak
(*Quercus alba*)



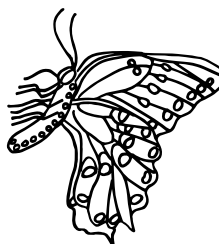
Eastern Chipmunk
(*Tamias striatus*)



Eastern Bluebirds
(*Sialia sialis*)



Spicebush Swallowtail
(*Papilio troilus*)



Cedar Waxwings
(*Bombycilla cedrorum*)



HINT!

Sometimes the name of the species can help you make the match.

ANSWERS 1. Staghorn Sumac (*Rhus typhina*) and Eastern Bluebirds (*Sialia sialis*) 2. Eastern Red Cedar (*Juniperus virginiana*) and Cedar Waxwings (*Bombycilla cedrorum*) 3. Spicebush (*Lindera benzoin*) and Spicebush Swallowtail (*Papilio troilus*) 4. White Oak (*Quercus alba*) and Eastern Chipmunk (*Tamias striatus*)

ANSWERS TO THE QUIZ ON PAGE 30 **Question 1:** Three! SEPTA, New Jersey Transit, and PATCO. **Question 2:** 1968. **Question 3:** The Market-Frankford line. **Question 4:** Bus. **Question 5:** 6th **Question 6:** SEPTA bus routes running 24 hours a day are called Night Owl bus routes. Night Owl bus routes are Route 6, 14, 17, 20, 23, 33, 37, 42, 47, 52, 56, 60, 66, 73, 79, 108, 109, G, and R. **Question 7:** With a SEPTA Key, one ride costs \$2. If paying in cash the fare increases to \$2.50 unless you have a weekly or monthly pass. **Question 8:** Although service on the northern half of the Broad Street Line (BSL) began in 1928, the BSL reached its current length in 1973 with the opening of Pattison Station (now NRG Station) in South Philly. **Question 9:** SEPTA currently operates 25 electric buses, with at least 10 more on the way later this year. **Question 10:** SEPTA has estimated that transit usage in Philadelphia cuts our carbon footprint one million metric tons, the equivalent of taking more than 200,000 passenger vehicles off the road in a year.



Did you know that there are countless ways to get informed about the impacts of climate change?

Whether locally or globally, check out the resources below to learn more!



Image courtesy of Liz Jelsomine

TEMPESTRY AT THE SCHUYLKILL CENTER FOR ENVIRONMENTAL EDUCATION

The Tempestry Project uses colorful knitted tapestries to show how daily temperature highs have changed over time. The project uses publicly available temperature data from the National Oceanic & Atmospheric Administration (NOAA). Forty knitters in the Philadelphia area contributed to the project. Together, the Tempestries show how Philadelphia's climate has changed from 1875 to 2018. To read the Tempestries, start at the bottom and read up for daily high temperature from January to December. Blue represents cooler temperatures and red represents hotter temperatures.

📍 8480 Hagys Mill Rd, Philadelphia, PA 19128 📞 215-482-7300
bit.ly/Tempestry



CHANGING EARTH AT THE FRANKLIN INSTITUTE

The Earth is always changing. In this exhibit you can learn how forces like volcanoes, storms, precipitation, and human activity shape our planet. Calculate your carbon footprint, find solutions to reduce carbon emissions, build a structure that can withstand an earthquake, deliver your own weather forecast, and more! The Franklin Institute also offers an annual climate and sustainability teacher training. Reach out to rvalletta@fi.edu to learn more!

📍 222 North 20th St, Philadelphia PA 19103 📞 215.448.1200
bit.ly/ChangingEarth

READ

CITIES OF SALT

BY ABDUL RAHMAN MUNIF

Originally written in Arabic, this book is the first of five books in a series. It discusses the transformation of the Arabian Peninsula and the discovery of oil.

GUN ISLAND

BY AMITOV GHOSH

This book discusses climate change, pollution, and migration. The Sundarbans, a threatened wetland between India and Bangladesh, is a focal point.

I'M NOT A PLASTIC BAG

BY RACHEL HOPE ALLISON

Using the Great Pacific Garbage Patch as a starting point, this graphic novel shows the impact everyday items have on the world around us.

PARABLE OF THE SOWER

BY OCTAVIA BUTLER

Set in the 2020s, this book details the impacts of climate change, wealth inequality, and corporate greed. It focuses on a young woman and her new belief system called Earthseed.

WATCH

KOYAANISQATSI: LIFE OUT OF BALANCE

The first of three movies in a series, this film strings together images and videos to show the relationships between nature and humanity.

TAMBIEN LA LLUEVIA (EVEN THE RAIN)

Locals challenge the privatization of their water supply by a multinational corporation in Cochabamba, Bolivia.

WB SAUL MEDIA ON YOUTUBE

Mr. Smith, one of the Natural Resource Management teachers at W.B. Saul High School of Agricultural Sciences, works with his students to create media and communications projects on environmental issues. Topics include deforestation, composting, and social justice.

bit.ly/SaulVideos

WHATSPOPPIN ON YOUTUBE

POPPYN stands for Presenting our Perspective on Philly Youth News. High School Students collaborate with college students to produce short films and more. Watch them live on PhillyCAM on Thursdays at 5:30.

bit.ly/PHLYouthNews

Image courtesy of Bartram's Garden



LISTEN

CITY RISING

City Rising is a podcast by Green Philly. It shares how cities are creating climate solutions

bit.ly/CityRisingPHL

EcoWURD RADIO

EcoWURD is an environmental justice journalism initiative produced by WURD Digital. It explores the "Green Divide" and the ways Black communities are impacted at the intersections of race, income, and the environment.

<https://ecowurd.com/>

ENERGY POLICY NOW

Energy Policy Now is a podcast series from the Kleinman Center for Energy Policy. It covers policy issues related to energy and their impact on society and the environment.

bit.ly/EnergyPolicyPodcast

PLANET PHILADELPHIA

Planet Philadelphia is a weekly environmental radio show on Germantown Community Radio. The show creates a platform for listeners to learn about and discuss environmental issues.

bit.ly/PlanetPhila

PHILLY TALKS CLIMATE

Philly Talks Climate is a radio show about the climate crisis and how it affects Philadelphia.

bit.ly/TalkClimatePHL

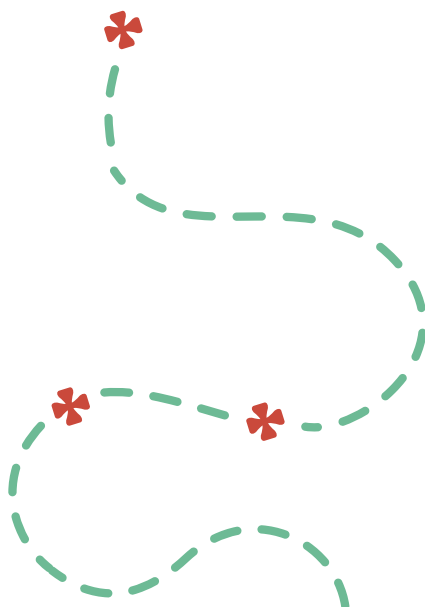
STORIES FROM HOME: LIVING THE JUST TRANSITION

The first podcast series by the Climate Justice Alliance, it focuses on the valuable climate justice work of everyday people.

<http://bit.ly/CJApodcast>

PHILLY ENVIRONMENTAL CENTERS & FARMS

1. **Bartram's Garden**
5400 Lindbergh Blvd
Philadelphia, PA 19143
2. **Cobbs Creek Community Environmental Center**
700 Cobbs Creek Parkway
Philadelphia, PA 19143
3. **The Discovery Center**
3401 Reservoir Drive
Philadelphia, PA 19121
4. **Fairmount Park Horticultural Center**
100 N Horticultural Drive
Philadelphia, PA 19131
5. **Fairmount Water Works**
640 Waterworks Drive
Philadelphia, PA 19130
6. **John Heinz National Wildlife Refuge at Tinicum**
8601 Lindbergh Boulevard
Philadelphia, PA 19153
7. **One Art Community Center**
1431-39 N. 52nd Street
Philadelphia, PA 19131
8. **Overbrook Environmental Education Center**
134 Lancaster Avenue
Philadelphia, PA 19151
9. **Urban Creator's Life Do Grow Farm**
2315 N. 11th Street
Philadelphia, PA 19133
10. **Wissahickon Environmental Center**
300 W. Northwestern Avenue
Philadelphia, PA 19128





www.phila.gov/green



[@greenworksphila](https://www.instagram.com/greenworksphila)

PHILLY
TRANSIT
STORY

Amy Hopf

NEIGHBORHOOD

Bella Vista

My favorite Philly transit memory was when I wanted to go to the final Parks on Tap at the Strawberry Mansion Bridge after work. I needed to find an easy way there and realized the 61 bus runs all the way up Ridge and would get me there pretty directly! I love taking the bus. I got on and realized my SEPTA Key didn't have enough money on it. Luckily a super kind passenger gave me a token (old school!) I offered him the only dollar I had on me but he was persistent that I should just take his token. It was a memorable ride!



Photography by Shasta Bady.



RESIDENTS:

Free
Rain Barrel!
Protect local
waterways.



Sign up for a workshop:
pwdraincheck.org

PHILADELPHIA
WATER
— DEPARTMENT —