



# GREENWORKS

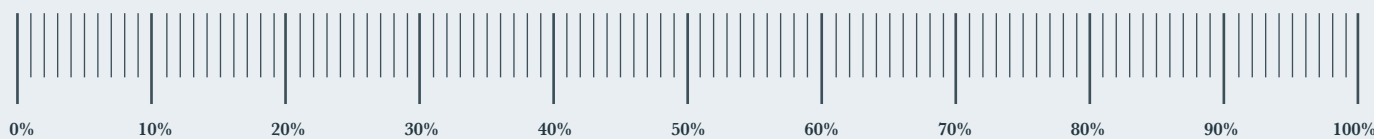
PHILADELPHIA





**METHODOLOGY.** With this report, we are charting our progress over the first year of a six-year plan. For each initiative outlined in *Greenworks*, we assigned a value on a progress bar of zero through five (see pages 11 through 17). For each target, the percent progress toward completion represents an average across all initiatives under that target. For example, Target 1 includes 14 initiatives, and the sum of their progress bar values is 33, which is 47% of the 70 possible progress points for 14 initiatives. Note that some completed initiatives (a 5 on the progress bar), are also marked as “ongoing.” In these instances, we have achieved the stated goal, but work on the initiatives continues. *Greenworks* is a living document. In year one, we added and realigned initiatives, and we anticipate additional changes in year two. This summer we will be launching the *Greenworks* database, which will increase our capacity to track detailed metrics and capture project updates. We will regularly share this information with the public on our website and will publish a comprehensive progress report each spring.

YEAR ONE  
TARGET PROGRESS



## My Fellow Philadelphians:

One year ago, I unveiled *Greenworks Philadelphia*, an exciting and ambitious plan to transform Philadelphia into the greenest city in the United States of America. This landmark effort draws on the collective talents and expertise of dozens of government departments, nonprofits, neighborhood organizations, utility companies, and the private sector—along with the commitment of people who live and work in Philadelphia.

*Greenworks* sets 15 targets for improving our city’s environment, reducing our energy use, creating jobs, and enhancing our quality of life. We promised that we would report back every year on our progress toward these goals, and I’m pleased to present the first annual *Greenworks Progress Report*. Inside you’ll learn about our accomplishments this year, what we’re currently working on, and what’s still on the drawing board.

We’ve been recognized at the national level for the progress that we’ve made, recently receiving an award from the U.S. Chamber of Commerce for being America’s top sustainable city. Washington is taking notice, too. Just last month Philadelphia was awarded a \$25 million grant from the Department of Energy to invest in energy efficiency and conservation—one of only 25 recipients across the country. Other major cities are paying attention to our example just as we are looking to them for model programs and novel ideas we can bring back to Philadelphia.

We hope you’re enjoying benefits from some of our first year’s work by exploring our new bike lanes and riverfront paths, enrolling in Recycling Rewards, riding a hybrid SEPTA bus, or recycling on the go in one of our new street corner recycling bins. Our progress in other areas is less visible but just as vital. We’re studying where to locate 500 new acres of open space by 2015 and requiring new construction of City buildings to achieve LEED Silver certification.

The progress that we’ve made so far is a credit to the dedication and commitment of so many individuals and organizations throughout Philadelphia. As a result of your work we’re reaching our recycling goals, homeowners are saving money on their energy bills, people have found work in the new green economy, small businesses have received funding to make energy efficiency improvements to their properties, and City government is saving money that can be invested in further improvements and public services. Thank you.

When I said in my inaugural address that Philadelphia will be the number one green city in America, I’m sure many felt the goal was too bold, too ambitious, perhaps unachievable. Now, looking back on the first year of *Greenworks*, I am more confident than ever that we will be successful. Together we can build on our momentum, realize the benefits of sustainability for all of our citizens, and establish Philadelphia as a city on the cutting edge of innovation in the 21st Century.

Mayor Michael A. Nutter  
CITY OF PHILADELPHIA

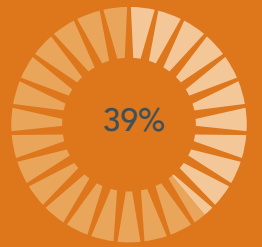




# E N E R G Y

GOAL: PHILADELPHIA REDUCES ITS VULNERABILITY TO RISING ENERGY PRICES

OVERALL GOAL PROGRESS



**TARGET 1**

**LOWER CITY GOVERNMENT ENERGY CONSUMPTION BY 30 PERCENT**

City Government Lays the Groundwork for Energy Conservation

Even during the budget crisis, the City of Philadelphia was able to build capacity to change our energy management practices in 2009 and 2010 with funding from the U.S. Department of Energy's innovative Energy Efficiency and Conservation Block Grant (EECBG). The City hired a new Energy Manager to focus on energy policy and procurement and an Energy Conservation Coordinator to promote awareness of energy use and conservation among City employees and help each department lower its energy use by 10 percent during Fiscal Year 2011. With EECBG funds the City was also able to purchase an energy-management database that allows departments to monitor energy use online and track their progress toward reduction targets.

To show citizens that Philadelphia is committed to reducing energy usage, the City government is leading by example. The City has selected a company to perform an Investment Grade Audit of our four main office buildings and to suggest improvements that will help the City move toward our target of a 30 percent reduction in energy use. In January 2010, Mayor Nutter signed legislation, introduced by Councilwoman Blondell Reynolds Brown, requiring all new construction and major renovations of large City government buildings to meet Silver Certification in the Leadership in Energy and Environmental Design (LEED) rating system of the U.S. Green Building Council. These actions exemplify the City's new approach to energy use which carefully considers life-cycle costs of procurement choices and payback on investments in energy infrastructure.

**TARGET 2**

**REDUCE CITYWIDE BUILDING ENERGY CONSUMPTION BY 10 PERCENT**

Public/Private Partnerships and New Law Reduce Energy Consumption

At a time when access to capital is constrained, the City of Philadelphia created the *Greenworks Loan* and *Rebate Fund* in partnership with the Philadelphia Industrial Development Corporation and The Reinvestment Fund (TRF) to help businesses finance energy-efficient building practices, materials, and equipment for major renovations and new construction projects. The *Greenworks Loan Fund* began with \$9 million in capital, blending funds from the City's Energy Efficiency and Conservation Block Grant (EECBG) formula funding and public and private dollars through TRF.

In April 2010, Philadelphia was one of 25 communities to be awarded a competitive EECBG Retrofit Ramp-up grant from the U.S. Department of Energy. The City and our partners will receive \$25 million to transform the energy efficiency retrofit market in the Philadelphia area. Funding from the *Greenworks Loan Fund* and *Keystone HELP* will provide capital for energy efficiency improvements to both homeowners and businesses in the five-county region.

In May 2010, Mayor Nutter signed legislation, introduced by Councilman James Kenney, requiring all new construction in the City to use highly reflective roofing materials that meet or exceed Energy Star cool roof standards. Cool roofs are constructed or coated with a reflective material that deflects the sun's light and heat, reducing indoor temperature on hot days, extending the life of the roof, and reducing the outdoor air temperature of the surrounding area. Cool roofs have installation costs similar to traditional roofs, but ultimately lower building maintenance costs by extending the life of the roof and by reducing cooling expenses by up to 20 percent. The cool roof law is a key first step toward the City's anticipated adoption of green building standards.

**TARGET 3**

**RETROFIT 15 PERCENT OF HOUSING STOCK WITH INSULATION, AIR SEALING AND COOL ROOFS**

Recovery Act Supports Weatherization and Contest Inspires Homeowners

Last fall, Philadelphia's Weatherization Assistance Program received nearly \$30 million through the American Recovery and Reinvestment Act of 2009. The City is deploying funds through the Philadelphia Housing Development Corporation and the Energy Coordinating Agency (ECA). During the first year of *Greenworks*, the funding supported weatherization of over 550 Philadelphia homes. Eligible low-income homeowners received an energy-use audit, an air leak test, and upgrades to make their homes tighter and more energy-efficient.

The City also sponsored a neighborhood competition to reduce energy demand. The RetroFIT Philly "Coolest Block" contest was a first-of-its-kind, public-private partnership among the City of Philadelphia, ECA, and The Dow Chemical Company. Seventy-four blocks entered the contest to win cool roofs, air sealing, and insulation upgrades. To enter, each homeowner on a block had to participate, a requirement that encouraged neighbor-to-neighbor outreach and discussion about energy usage among community members. Given the enthusiastic response from residents, the City is looking for funds to hold additional contests.

Over the summer, each resident on the winning block will receive a whole-home energy audit and installation of energy-saving materials. The project organizers will track reductions in energy demand. "We are planning to work with the utility companies to know what kind of savings the homes get," said Catherine Hunt, Ph.D., Director of External Science and Technology at Dow Chemical Company. "Data will help people see that this really does work. This competition has the potential to be a model in other cities nationwide and even worldwide," Hunt adds. "If we can set the standard here in Philadelphia—that is truly exciting."



**TARGET 4**

**PURCHASE AND GENERATE 20 PERCENT OF ELECTRICITY USED IN PHILADELPHIA FROM ALTERNATIVE ENERGY SOURCES**

Philadelphia Focuses on Solar PV Projects

As the cost of energy produced from fossil fuel rises while the price of solar technology drops, Philadelphia is encouraging residents and businesses to install solar panels and is planning to build a number of large-scale solar arrays on City-owned land.

With funding from the U.S. Department of Energy's Solar America Cities Program, the City is collaborating with Villanova and Philadelphia University graduate students to create tutorials on solar power that will be posted on the Mayor's Office of Sustainability website. The City is also writing a guidebook for solar industry professionals that outlines how to plan and install solar projects in Philadelphia. The guidebook provides information on site design criteria, the permitting process, and the PECO approval process. The Solar America Cities partners are designing a two-day training course for Philadelphia electrical inspectors to teach them how to assure that solar installations in the City are safe and responsible.

The City is collaborating on plans for three large-scale solar installations which together will provide enough electricity to power over 600 homes. The City and our partners strategically considered many sites before choosing the Navy Yard, the Philadelphia Water Department's (PWD) Southeast Wastewater Pollution Control Plant, and PWD's Baxter Water Treatment Facility. The planned installations will provide cost competitive renewable energy for decades. The City is optimistic that large-scale market transformation will make additional ambitious solar projects more feasible in the future.

**PLANNED SOLAR INSTALLATIONS**

LOCATION	PV SYSTEM SIZE	FUNDING MECHANISM
Navy Yard	1.5 MW	Exelon & Pennsylvania Economic Development
PWD Southeast Wastewater Pollution Control Plant	250 kW	Energy Efficiency and Conservation Block Grant & PWD
PWD Baxter Water Treatment Facility	2-5 MW	Power purchase agreement, requiring no upfront City capital

**TARGET 2**

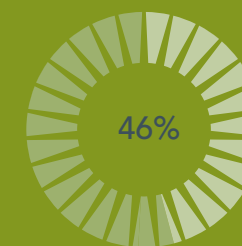
The *Greenworks Loan Fund* will make loans ranging from \$100,000 to \$1 million at below-market interest rates. The *Greenworks Rebate Program* ensures that small businesses have access to capital to improve their energy efficiency by refunding up to 50 percent of the cost of energy retrofits up to \$10,000. The program also offers free energy audits to qualifying businesses.



# ENVIRONMENT

GOAL: PHILADELPHIA REDUCES ITS ENVIRONMENTAL FOOTPRINT

OVERALL GOAL PROGRESS



## TARGET 5

### REDUCE GREENHOUSE GAS EMISSIONS BY 20 PERCENT

Emissions Inventory Will Chart Future Progress

Since the introduction of *Greenworks* in May 2009, the City of Philadelphia has been working diligently with partners to refine and update a greenhouse gas emissions inventory that will serve as a benchmarking tool for reduction goals. In 2009, the Philadelphia International Airport completed an inventory of greenhouse gas emissions from its facilities. The City is gathering information from local utility companies and calculating vehicle miles traveled to develop a city-wide and regional greenhouse gas tracking and measurement system, and to identify additional opportunities for reducing emissions.

“There are very few initiatives in *Greenworks* that are not related to this target,” said Rob Graff, manager of the Office of Energy and Climate Change Initiatives at the Delaware Valley Regional Planning Commission (DVRPC). He points out that managing energy use in government buildings, planting trees, and using alternative energy sources to power wastewater treatment plants all reduce greenhouse gas emissions.

“Emissions are good to measure, but measurements alone rarely motivate large actions unless there are other benefits, such as saving money and improving people’s lives,” said Graff. “That is a strength of *Greenworks*.”

“DVRPC is taking *Greenworks* with us as an example when we go out to the region as a whole,” Graff added. “The City can be a model both regionally and nationally for moving ahead on policies from small to large that make an impact on greenhouse gas emissions.”

## TARGET 6

### IMPROVE AIR QUALITY TOWARD ATTAINMENT OF FEDERAL STANDARDS

Public Transit Fleet Upgrades and Anti-Idling Enforcement Improve Air Quality

In 2010, SEPTA put its 260th hybrid bus in service, passing the halfway point in reaching the ambitious goal of having 440 hybrid buses among its total fleet of 1,400 by the end of 2011. Forty of those hybrids were purchased with \$17.8 million in federal grants under the American Recovery and Reinvestment Act (ARRA) of 2009.

Hybrid buses are cleaner-burning and up to 29 percent more fuel-efficient than standard diesel buses. Hybrids are also quieter, which is better not only for bus operators and riders but also for residents living along SEPTA bus routes. “By the end of 2011 more than one out of every three buses will be hybrid,” said Marion Coker, Manager of Strategic Business Planning and Sustainability at SEPTA. “The Philadelphia region will have the largest ratio of hybrids to diesel buses within an existing fleet nationwide.”

Because diesel emissions are a significant contributing factor to health risks from toxic emissions, the Philadelphia Department of Public Health Air Management Services (AMS) strongly promotes voluntary emissions reductions from diesel vehicles. AMS also convenes the Philadelphia Diesel Difference Working Group, a coalition that works to reduce air pollutants from diesel-powered engines in the greater Philadelphia area.

To promote air quality awareness, Mayor Nutter signed a proclamation declaring April 2010 “IdleFreePhilly Month.” The Clean Air Council (CAC), Philadelphia Parking Authority (PPA), and the City’s 311 Contact Center are taking reports of vehicles idling for longer than five minutes by phone and at [www.idle-freephilly.org](http://www.idle-freephilly.org). Both AMS and PPA can now issue fines to vehicles breaking Philadelphia’s anti-idling law.

## TARGET 7

### DIVERT 70 PERCENT OF SOLID WASTE FROM LANDFILL

Philadelphia Recycling Experiences a Strong and Sustained Rise

Since Mayor Nutter took office in 2008, the recycling rate in Philadelphia has nearly tripled, thanks largely to progressive work by the Philadelphia Streets Department, which runs the largest single stream curbside recycling program east of the Mississippi.

To further increase residential participation in recycling, the City launched Philadelphia Recycling Rewards, an innovative partnership with RecycleBank. The program records the amount of material a community recycles and rewards residents RecycleBank Points that can be redeemed for discounts, gift cards, or charitable contributions at participating merchants and nonprofits. The program began in February 2010 and by the summer will be available city-wide.

In July 2009, the Streets Department replaced 700 wire trash baskets throughout Center City with 470 Big Bellies, 210 of which have recycling receptacles attached, allowing people to recycle on the go for the first time in Philadelphia. The City collects 14 to 18 tons of recycling from the street containers every month. The Big Belly solar-powered trash compactors have another benefit; they can be emptied only one time a day instead of three, which has reduced the number of trucks on the streets. During the spring and summer of 2010, the Streets Department will install nearly 500 more Big Belly trash compactors and 200 recycling units across the City.

The City is also working to improve commercial recycling rates. In fall 2009, the Streets Department began requiring Philadelphia businesses to submit their recycling plans to an online registration system. Streets Department staffers in the field can now connect to the recycling plan database and write tickets if businesses are not following their approved plans.



## PROJECT PROFILE

### *The Hope Garden, Growing in Philadelphia*

In 2009, Weavers Way Community Programs (WWCP) started the Hope Garden, a community garden on a 1/3-acre plot at Mt. Airy Stenton Family Manor, a homeless shelter for families that is part of the Transitional Housing program run by the City of Philadelphia Office of Supportive Housing. The garden serves many purposes. It teaches residents how to grow food in an urban setting, provides fresh, healthy ingredients for meals served at the shelter, serves as a gathering place for residents, provides affordable produce to people in the neighborhood, and teaches the entrepreneurial skills necessary to run a small commercial farm.

Over the summer, the Hope Garden was part of the Stenton Family Manor summer camp for fifty-five children residing at the shelter. The children learned planting, weeding, and harvesting skills, and celebrated the end of the summer with a harvest party showcasing the food, art, and dance they created during camp. After a successful first season, WWCP is planning to expand its educational offerings at the Hope Garden by building a cob oven and increasing the area of land under production.

In April 2010, the Streets Department launched a new anti-litter campaign, UnLitter Us, which features local spoken word artists performing original poems encouraging residents to take care of Philadelphia by recycling and throwing away garbage. The campaign uses social networking sites and YouTube videos to inspire people and works with neighborhood organizations to stop litter. UnLitter Us reminds Philadelphians that keeping the City clean is an important part of making the City green.





# EQUITY

GOAL: PHILADELPHIA DELIVERS MORE EQUITABLE ACCESS TO HEALTHY NEIGHBORHOODS

OVERALL  
GOAL PROGRESS

44%

## TARGET 8

### MANAGE STORMWATER TO MEET FEDERAL STANDARDS

*Green City, Clean Waters: A New Approach to Stormwater Management*

In September 2009, the Philadelphia Water Department (PWD) released *Green City, Clean Waters*, a plan to meet federal regulatory obligations while revitalizing the City. The plan commits Philadelphia to manage stormwater with green infrastructure, soil and plant systems that intercept stormwater, infiltrate it into the ground, and evaporate it into the air. By 2029, PWD plans to replace at least one third of the City's impervious surfaces with these systems. The change, in addition to managing stormwater, will increase recreational opportunities, provide jobs, and improve air quality. *Green City, Clean Waters* is the largest and most ambitious green stormwater management plan in the country.

"We asked, 'What can we do to make our rivers and streams fishable, swimmable, safe, attractive, and accessible?'" explained Howard Neukrug, the Director of PWD's Office of Watersheds. "Our biggest problem is that the sewer system doesn't have sufficient capacity to handle the rain," he said. "When faced with this, most cities in the United States build bigger sewers, bigger tanks, bigger pipes. We're looking at the problem in a completely different way."

In 2009, the Pennsylvania Infrastructure Investment Authority (PennVest) issued PWD more than \$150 million, including \$30 million for green infrastructure, in 1 percent 30 year loans to upgrade its sewer system. With part of this funding PWD and the Streets Department built two demonstration green streets with trees, vegetated bump-outs, and permeable pavers to reduce stormwater runoff.

PWD also changed its commercial billing, separating stormwater charges from sewer bills and basing charges on the amount of impervious surface in a parcel. Customers can reduce their stormwater fees if they install green stormwater infrastructure. PWD is using stormwater management requirements as a catalyst to make the City greener in many areas beyond water. Their progressive approach will help Philadelphia meet *Greenworks* goals related to open space, economic development, and air quality.

## TARGET 9

### PROVIDE PARK AND RECREATION RESOURCES WITHIN 10 MINUTES OF 75 PERCENT OF RESIDENTS

Thoughtful Planning to Locate New Open Space

To meet the *Greenworks* goal of providing park and recreation amenities within 10 minutes of 75 percent of residents by 2015, the Parks and Recreation Department is leading a project, *Green2015: An Action Plan for 500 New Acres of Public Open Space*, in coordination with the City Planning Commission's comprehensive planning process. Grants from the William Penn Foundation and Lenfest Foundation are funding work on the project by PennPraxis, the Pennsylvania Horticultural Society, and the Penn Project for Civic Engagement. The report will be based on an inventory of previous planning efforts, data gathering and analysis, case studies, and civic input. It will suggest specific parcels appropriate for use as open space and help the City develop criteria to use when considering options that arise in the future.

A reasoned and equitable open space plan will help achieve many City goals. Open space can help the Philadelphia Department of Public Health prevent obesity and promote physical activity. The Philadelphia Water Department benefits when open space absorbs stormwater. Understanding which neighborhoods lack open space will help the Planning Commission as they rewrite the comprehensive plan and the Zoning Commission as they edit the City's land use maps.

Parks and Recreation Commissioner Michael DiBeradinis and Deputy Mayor for Planning and Economic Development Alan Greenberger convened an advisory group including City agency leaders, local nonprofit representatives, City Council members, and park advocates to give feedback on the project. PennPraxis will hold six civic engagement sessions during summer 2010 to get public input on the process. *Green2015* will be completed by the end of the year. For more information, please visit [www.planphilly.com/green2015](http://www.planphilly.com/green2015).



PHOTO BY SHAWN WILSON

## TARGET 10

### BRING LOCAL FOOD WITHIN 10 MINUTES OF 75 PERCENT OF RESIDENTS

Supporting Local, Healthy Food



To advance Philadelphia toward achieving the *Greenworks* goals of locating local food within 10 minutes of 75 percent of residents, the City is using a multifaceted approach. Fairmount Park is partnering with the Pennsylvania Horticultural Society to develop green resource centers throughout the Park. The centers will provide seedlings, materials, and technical assistance to residents who want to grow their own produce.

In 2009 and 2010, the Department of Parks and Recreation expanded local agriculture on its land. Seeds for Learning received another half-acre to add to its 1/3-acre farm in Awbury Park, where Martin Luther King High School students grow fresh produce and run a farm stand. In March 2010, Teens4Good, a youth entrepreneurship program, broke ground for a new farm at the Carousel House Recreation Center in West Fairmount Park. The local ShopRite will sell the farm's fruits and vegetables. Both farms provide produce to neighborhoods with historically poor access to fresh food. The Department is also exploring how parkland can best support chemical-free, commercial farming to help Philadelphians earn supplemental income.

Recognizing the complexity of gaining access to City-owned land, the Mayor's Office of Sustainability is coordinating with the Redevelopment Authority (RDA), the Department of Public Property, and the City Planning Commission to inventory land holdings and analyze which parcels are appropriate for growing food. In 2009, the RDA commissioned a consulting firm to study the best use for its parcels, and Public Property published a list on its website of all the lots it owns. The Mayor's Office of Sustainability is designing a page on our website to disseminate information about how to access available technical assistance and City-owned land for growing food.

## TARGET 11

### INCREASE TREE COVERAGE TOWARD 30 PERCENT IN ALL NEIGHBORHOODS BY 2025

Tree Canopy Assessment Will Guide Major Planting Campaign

The City of Philadelphia is creating a strategic and comprehensive plan to reach the *Greenworks* goal of planting 300,000 trees by 2015. With funds from the United States Forest Service, the City is conducting an urban tree canopy assessment. Using satellite imagery that is accurate to within one meter and LiDAR technology that can measure tree height, the survey will include virtually every tree in Philadelphia and identify the best opportunities for planting. In the meantime, the City is working to find nursery stock for the ambitious planting schedule and to revise the City's zoning code to encourage tree planting.

In April 2010, the Department of Parks and Recreation kicked off "Green Philly, Grow Philly," the first phase of a comprehensive tree-planting campaign. To achieve the *Greenworks* tree coverage goal, the City will build on existing partnerships among Parks and Recreation, the Philadelphia Water Department, and the Pennsylvania Horticultural Society by working side-by-side with private organizations, nonprofits, neighborhoods, and individual residents. The University of Pennsylvania has signed on as the first institutional partner for the campaign, and Parks and Recreation is working with other institutions to create additional partnerships.

"Street trees and forest trees aren't enough. To achieve our aggressive goal, we need everyone in Philadelphia to contribute," said Joan Blaustein, Director of Environment, Stewardship, and Education for Fairmount Park. "Street trees, parks, recreational areas, schoolyards, libraries, businesses, residences—our campaign will encompass all of these areas."

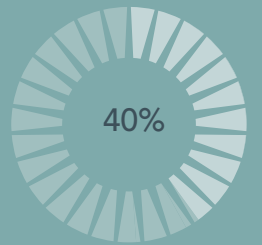




# ECONOMY

GOAL: PHILADELPHIA CREATES A COMPETITIVE ADVANTAGE FROM SUSTAINABILITY

OVERALL GOAL PROGRESS



TARGET 12

**REDUCE VEHICLE MILES TRAVELED BY 10 PERCENT**

Bike Lanes and Trail Improvements Pave the Way for More Cyclists

During the first year of *Greenworks*, numerous partners collaborated to make Philadelphia more accessible to pedestrians and bikers. The most visible change was the addition of two new bike lanes on Spruce and Pine Streets, which create a much-demanded east-west corridor for biking. The successful pilot project began in September 2009 and is paving the way for more bike lanes throughout the City.

In February 2010, with the support of the Bicycle Coalition of Greater Philadelphia and the Pennsylvania Environmental Council, the City of Philadelphia received \$17.2 million to fill critical gaps in the City's bicycle and pedestrian trail network. The funds are from the U.S. Department of Transportation's highly competitive Transportation Investment Generating Economic Recovery (TIGER) Discretionary Grants Program.

"This truly was a collective effort," said Alex Doty, Executive Director of the Bicycle Coalition of Greater Philadelphia. "It shows how the City and outside groups are working together to achieve sustainability goals. The TIGER grant depended on local groups being on board and the City making clear that the project was a priority."

The City is also working to make bike parking easier. Since Mayor Nutter took office, the Streets Department has installed over 1,400 bike racks as part of the Adopt-a-Rack program. The program provides a City-installed bike rack to groups and individuals that accept maintenance responsibility. The Streets Department plans to install 500 new racks in 2010. Additionally, as the City switches over from individual parking meters to centralized parking payment kiosks, we plan to convert roughly 1,800 former meters into bike parking by replacing meter heads with metal rings.

TARGET 13

**INCREASE THE STATE OF GOOD REPAIR IN RESILIENT INFRASTRUCTURE**

Philadelphia Secures Funds for Infrastructure Repair and Upgrade

In 2009, Philadelphia repaved more than 1,275 city blocks. The staff of the Streets Department, Water Department, and Division of Aviation worked long hours to have projects ready for American Recovery and Reinvestment Act (ARRA) funding. The Streets Department and Division of Aviation are set to receive \$70 million in grants to invest in our aging infrastructure. The funds will repave hundreds of blocks, convert every traffic signal in the City to energy efficient LED bulbs, deploy thousands of bike racks, reconstruct Philadelphia International Airport's longest runway, install state of the art baggage screening at the airport, and bring Big Belly solar compactor trash cans to South, North, and West Philadelphia.

The Philadelphia Water Department will receive \$200 million in low-interest ARRA loans to replace 34 total miles of water mains, a 75 percent increase over its baseline annual replacement rate. The ARRA loans will fund rehabilitation of our water treatment facilities, and PWD will also receive non-recovery low-interest loans to install new sewer piping and green infrastructure.



TARGET 14

**DOUBLE THE NUMBER OF LOW- AND HIGH-SKILL GREEN JOBS**

Training Workers and Identifying Opportunities for Green Jobs Growth

In 2009 and 2010, efforts to train workers for green jobs benefited tremendously from economic recovery grants. City of Philadelphia partners received over \$5.28 million in U.S. Department of Labor Pathways Out of Poverty grants for green job training programs including the Community College of Philadelphia's *Job Ready Training Program*, the Metropolitan Career Center's *STRIVE for Green Program*, and the Green Jobs Readiness Partnership's *Job Opportunity Investment Network*. In addition to these competitive awards, the City of Philadelphia received over \$14 million in workforce formula recovery funding. The City identified the green industry as a target industry and used part of the recovery funds for significant new investments in green jobs and training.

To meet the growing demand for workers with expertise in weatherization, energy efficiency, and solar technology, the Energy Coordinating Agency opened the John S. and James L. Knight Green Jobs Training Center in spring 2010. The Center features three classrooms and a large laboratory facility that gives trainees hands-on experience performing energy audits and using the equipment and techniques they will employ in the field. In the first months of the Center's operation, about 85 percent of workers who completed ECA's training programs found jobs.

The City of Philadelphia and the Philadelphia Industrial Development Corporation have been working with the Greek company HelioSphera to bring its newest thin-film solar panel factory to the Philadelphia Navy Yard. The company's current plans call for a factory which would employ up to 500 Philadelphians.

*"In 2009 and 2010, efforts to train workers for green jobs benefited tremendously from economic recovery grants."*



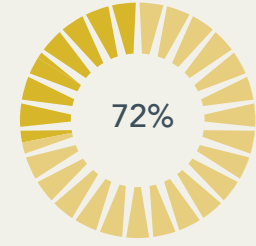
TARGET 12

In 2008, among the nation's ten largest cities, **Philadelphia had the highest percentage of commuters using bikes: 1.6 percent**, or twice the national average of .55 percent. **More than 7 percent of the City's workforce walks to work each day.** Currently, the City has 205 miles of bike lanes and 32.1 miles of multi-use trails.

# ENGAGEMENT

GOAL: PHILADELPHIANS UNITE TO BUILD A SUSTAINABLE FUTURE

OVERALL GOAL PROGRESS



Dear Friends,

As you've seen in this report, the Mayor's Office of Sustainability and our partners have spent the past year building the systems, programs, and partnerships we need to implement *Greenworks*. We're excited to continue collaborating with many of you during the second year of *Greenworks* as we work toward our ambitious goals.

During our first year of implementation, Philadelphians showed their commitment to *Greenworks*. In an impressive display of cooperation, leaders from numerous City agencies as varied as the Streets Department, the Zoning Code Commission, and the Department of Health, came together in our Sustainability Working Group and committed to being champions of sustainability across City government.

In the coming year, we will focus on increasing our community outreach and education efforts to make sure that *Greenworks* brings value to residents and businesses throughout Philadelphia. This summer we're collaborating on a series of events showcasing the great green work already underway in the City, and we're planning to offer resources and expertise to neighborhood groups interested in making their communities more sustainable. To help you understand what we're doing and why, we recently upgraded our website and created a YouTube channel. Who knows, you may even find us tweeting in the near future.

We're thrilled with the momentum *Greenworks* generated in its first year. It's truly a plan that has energized Philadelphia, and we couldn't have progressed this far without your involvement and support. We look forward to continuing and strengthening our partnerships, and we want to hear from you. Be in touch. Visit us online at [www.phila.gov/green](http://www.phila.gov/green) or email us at [mos@phila.gov](mailto:mos@phila.gov). And thanks again for all you do to make Philadelphia a sustainable city!

**Katherine Gajewski**  
DIRECTOR OF SUSTAINABILITY  
CITY OF PHILADELPHIA

Initiative	Underway	Progress To Date	Timeline	Progress Bar
<b>TARGET 1: LOWER CITY GOVERNMENT ENERGY CONSUMPTION BY 30 PERCENT</b>				
Energy-Efficient Capital Investments	●	Selected ESCO to perform Investment Grade Audit of Tri-plex and City Hall facilities. Municipal Energy Efficiency Fund in development to support Target Energy Budget initiative.	Launch 2010/Ongoing	●●●●●
Implement Target Energy Budgets	●	City's first Energy Conservation Coordinator hired spring 2010. Transitioning departments to Target Energy Budgets July 1, 2010. Utility bill management database coming online summer 2010.	Launch 2010/Ongoing	●●●●●
Encourage Conservation Among Employees	●	Secured funding for employee energy conservation campaign, to roll out summer 2010. Mayor's Office of Sustainability hired Energy Conservation Coordinator spring 2010.	Launch 2010/Ongoing	●●●●●
Install New Lighting	●	Using Recovery funds, a full conversion of traffic signals will begin spring 2010 and be complete in 2011. The design phase of a pilot Recreation Center lighting project for 6 sites is in process.	Launch 2010/Ongoing	●●●●●
Include Energy Conservation in Future Building Maintenance Contracts	●	Future Initiative.		●●●●●
Identify Less-Expensive and Alternative Electrical Sources	●	Electricity rate caps come off January 2011. The City is currently developing a purchase plan which will include a green energy purchase component.	Target 2011/Ongoing	●●●●●
Develop Energy Load/Demand Management Practices	●	As part of the PJM Demand Response Program, 13 City facilities have committed to mandated reductions totaling 10MW in summer 2010.	Launch 2010/Ongoing	●●●●●
Implement Capital Budget Energy Guidelines	●	Future Initiative.		●●●●●
Use Future Energy Costs to Help Inform Building Acquisition/Expansion Decisions	●	Future Initiative.		●●●●●
City Car Management Plan	●	Office of Fleet Management reduced fleet by 403 cars in 2009. 70% of Police fleet replaced with more fuel efficient vehicles. Over 440 City employees enrolled in car share program, the largest municipal program in the country. Gas usage data to be shared with departments June 2010.	Launch 2009/Ongoing	●●●●●
Investigate Conversion of City Buildings from Steam Loop to Natural Gas	●	Feasibility research underway.	Ongoing	●●●●●
Five-year Strategic Energy Plan (Water Department)	●	Plan in development, to be released summer 2010.	Launch 2010/Ongoing	●●●●●
LEED Legislation for City Buildings	●	Bill No. 080025 signed into law January 2010.	2010	●●●●●
Adopt Integrated Utility Bill Management System	●	Using Recovery funds, the City has acquired a sophisticated, user-friendly utility bill management system.	2010	●●●●●
<b>TARGET 2: REDUCE CITYWIDE BUILDING ENERGY CONSUMPTION BY 10 PERCENT</b>				
Develop Energy-Efficiency Building Guidelines	●	Internal working group established, guidelines in development.	Target 2010/Ongoing	●●●●●
Grant Floor-Area Ratio Bonuses	●	Under consideration for inclusion in new zoning code.	2011	●●●●●
Fast Track LEED-Certified and Energy-Efficient Buildings	●	L&I staff to receive green building training spring/summer 2010. Electronic plan review development in progress.	Target 2011	●●●●●
Explore Possibility of Disclosing Energy Use During Real-Estate Transactions	●	Future Initiative		●●●●●
Create a Sustainable Energy Authority	●	Future Initiative.		●●●●●
Reposition the Philadelphia Home Improvement Loan Program	●	Program continues to assist homeowners obtain financing for home improvements. Exploring possibility of targeted promotion for energy efficiency improvements.	Launch 2010/Ongoing	●●●●●



Initiative	Underway	Progress To Date	Timeline	Progress Bar
Create a Revolving Loan Fund for Businesses	●	Established Greenworks Loan Fund January 2010.	Launch 2010/ Ongoing	●●●●●
Pursue Competitive Energy Efficiency and Conservation Block Grant funding through U.S. Department of Energy	●	City selected as one of 25 recipients of nationwide Department of Energy competitive "Retrofit Ramp-Up" grant. Awarded \$25 million in April 2010. Program to launch in June 2010.	2010	●●●●●
Establish Power Purchase Pools for Small Businesses	●	Request for Information release anticipated 2010.	Target 2011	●●●●●
Install Smart Meters	●	PECO received a \$200 million Department of Energy grant for smart meters in 2009. Anticipated to save \$1.5 billion in costs and create 4,300 jobs over ten years.	Launch 2010/ Ongoing	●●●●●
Include Feedback on Utility Bills	●	Future Initiative.	Launch 2010/ Ongoing	●●●●●
Create Neighborhood Competitions	●	RetroFIT Philly Cool Roof competition launched February 2010. Plan to build on success of pilot competition and seek future opportunities for community-based contests.	Launch 2010/ Ongoing	●●●●●
Develop a Citywide Energy-Efficiency Marketing Campaign	●	Funding secured through Retrofit Ramp-Up grant, planning in process.	Launch 2010/ Ongoing	●●●●●
Explore Financing Options to Further Help Citizens (Non Commercial) Access to Capital for Retrofits	●	The City's "Retrofit Ramp-Up" grant will leverage and build upon the State's Keystone HELP program, a national residential retrofit financing model, for projects within the 5 county region.	Launch 2010/ Ongoing	●●●●●
Develop Cool Roof Code	●	Bill No. 090023 signed into law May 2010.	2010	●●●●●
Consider Adoption of Green Building Code	●	Exploring options for incorporating energy efficiency and sustainable design into existing building code. I&I code officials will vote to approve publication of the International Green Building Code.	Target 2012	●●●●●
<b>TARGET 3: RETROFIT 15 PERCENT OF HOUSING STOCK WITH INSULATION, AIR SEALING AND COOL ROOFS</b>				
Expand Current Low-Income Housing Weatherization Efforts	●	With \$30 million in Recovery funds administered by ECA and PHDC, program expanded in fall 2009. Over 550 houses weatherized and nearly 600 more currently in production.	Launch 2010/ Ongoing	●●●●●
Use the Sustainable Energy Authority to Create a Scalable Weatherization Program	●	Future Initiative.		●●●●●
Expand Scope of PGW's Weatherization Program and Increase Size	●	In fall 2009 PGW proposed a \$54 million program over 5 years, with projected savings of \$104 million. Expansion pending Pennsylvania Utility Commission approval in fall 2010.	Target 2010/ Ongoing	●●●●●
Build Energy Efficiency Guidelines/Requirements into Public and Low-Income Housing	●	Future Initiative.	Target 2011	●●●●●
<b>TARGET 4: PURCHASE AND GENERATE 20 PERCENT OF ELECTRICITY USED IN PHILADELPHIA FROM ALTERNATIVE ENERGY SOURCES</b>				
Promote Renewable Power Purchase Agreements for Public Buildings	●	RFP for Power Purchase Agreement for large-scale solar project at PWD facility due out summer 2010.	Launch 2010/ Ongoing	●●●●●
Reduce Regulatory Barriers to Solar Installation	●	Working to expedite electrical and building permit process. Zoning code re-write proposes solar collectors and small wind turbines as accessory structures permitted in residential and commercial districts.	2010	●●●●●
Write a Guide for Solar Development	●	Solar Guidebook to be released June 2010.	2010	●●●●●
Report Solar Financing Options	●	Financing options published on website.	Ongoing	●●●●●
Develop Solar Land Use Plan	●	Future Initiative.		●●●●●
Explore Vertical Axis Wind Turbines for Public Roofs	●	Future Initiative.		●●●●●
Create Biogas Cogeneration Facility at Northeast Wastewater Treatment Plant	●	PWD bid specs for cogeneration facility due out in June 2010, construction contingent on funding.	2011	●●●●●
Recycle Deicing Fluid	●	Airport deicing fluid converted to biogas for heat by PWD, which is looking to maximize this with completion of gas pipeline to biosolids facility in the coming year.	Ongoing	●●●●●
Purchase and generate 10% renewable energy of overall energy use at Philadelphia Airport	●	Currently purchasing 8% wind power. PV rooftop installations being considered for Terminal A-West and parking garages (may support 4-7MW capacity system).	Ongoing	●●●●●

ENERGY

Install Geothermal System at Sewer Maintenance Facility	●	Design underway, contingent on funding.	2011	●●●●●
Explore Ways to Capture Water at Fairmount Park and Flat Rock Dams	●	Exploring options for hydroelectric power generation.		●●●●●
<b>TARGET 5: REDUCE GREENHOUSE GAS EMISSIONS BY 20 PERCENT</b>				
Advocate for Federal Climate Legislation	●	Mayor Nutter testified before the U.S. Senate Environment and Public Works Committee in support of the "Clean Energy Jobs and American Power Act" in October of 2009. City continues to be vocal proponent for federal climate legislation.	Ongoing	●●●●●
Maintain Greenhouse Gas Emissions Inventory for the City	●	Initial inventory developed.	Launch 2009/ Ongoing	●●●●●
Conduct Greenhouse Gas Inventory for Philadelphia International Airport	●	Inventory completed 2009, monitoring continues.	Launch 2009/ Ongoing	●●●●●
<b>TARGET 6: IMPROVE AIR QUALITY TOWARD ATTAINMENT OF FEDERAL STANDARDS</b>				
Retrofit Diesel Vehicles Replace filters and add diesel oxidation catalyst equipment on all City diesel vehicles	●	Filters replaced on 1,680 of 2,400 diesel vehicles in 2009.	Launch 2009/ Ongoing	●●●●●
Increase the Use of Biodiesel Fuel in the City Fleet Purchase 420,000 gallons of biodiesel and increase by 5% every year	●	Purchased 906,497 gallons of biodiesel in 2009. Five active bio-diesel stations, 676 biodiesel vehicles, nearly 14% of the fleet using bio-diesel fuel.	Launch 2009/ Ongoing	●●●●●
Increase the City Fleet's Gas Mileage	●	70% of Police fleet replaced with better MPG vehicles. Program slowed due to budget.	Launch 2009/ Ongoing	●●●●●
Develop a Compressed Natural Gas Facility	●	Future Initiative.	Target 2009	●●●●●
Purchase Hybrid Diesel Buses SEPTA purchases 440 hybrid diesel buses	●	SEPTA purchased 472 hybrid diesel buses with Recovery funds, exceeding goal.	Target 2009	●●●●●
Facilitate Use of Electric Vehicles	●	Future Initiative.		●●●●●
Increase the Number of Hybrid or CNG Taxis	●	Future Initiative.		●●●●●
Congestion Reduction Better enforce anti-idling and double-parking regulations Expand Center City loading areas	●	Anti-idling enforcement by Air Management Services and the Philadelphia Parking Authority underway. Loading zones expanded in key Center City business districts in 2010.	Launch 2010/ Ongoing	●●●●●
Parking Policies Find price point to discourage driving.	●	Future Initiative.		●●●●●
Increase Parking Options for Bicycles and Motor Scooters	●	2,000 new bike racks to be installed in 2010.	Launch 2010/ Ongoing	●●●●●
Develop Green Ports Plan	●	The City is supportive of the Delaware River Port Authority's Green Ports Initiative, which seeks to make responsible, sustainable improvements to administrative, operations, and maintenance facilities.	Launch 2010/ Ongoing	●●●●●
Airport Green Plan	●	Comprehensive greening plan developed, implementation underway.	Launch 2010/ Ongoing	●●●●●
<b>TARGET 7: DIVERT 70 PERCENT OF SOLID WASTE FROM LANDFILL</b>				
Develop an Incentive-based Recycling Plan	●	Philadelphia Recycling Rewards program launched December 2009.	Launch 2009/ Ongoing	●●●●●
Expand Plastics Recycling	●	City continues to monitor plastics markets; looking for long-term sustainable markets.		●●●●●
Increase Recycling at City Facilities	●	2008 recycling for City facilities was 1,100 tons in 35 buildings; programs are being enhanced and expanded in 2010 for all City facilities.	Ongoing	●●●●●
Increase Oversight of Recycling in Commercial Buildings	●	Plans underway for full education and enforcement in 2010, including SWEEP deployment. Information sent out to 70,000 businesses in 2009.	Launch 2009/ Ongoing	●●●●●
Continue/Expand Public Space Recycling	●	City collects 14-18 tons of recycling from public bins each month. 210 Big Belly curbside solar compactors outfitted with recycling kiosks for public recycling.	Ongoing	●●●●●
Continue Event Recycling	●	Working to enhance event permitting process to include clear direction for event organizers on trash and recycling issues.	Ongoing	●●●●●

ENVIRONMENT



Initiative	Underway	Progress To Date	Timeline	Progress Bar
<b>Expand Recycling at Transit Stations</b> Immediate SEPTA goal = comply with City ordinance (by July 2010)	●	SEPTA working with Streets Department towards 100% compliance.	Ongoing	●●●●●
<b>Expand and Improve Recycling at Airports to Achieve 10% Diversion Rate</b>	●	Phase I and II of plan complete. Implementing curbside recycling, including Big Belly compactors at strategic locations.	Ongoing	●●●●●
<b>Construction and Demolition (C&amp;D) Waste Management Program</b>	●	City exploring expansion of existing requirements for contractors to file recycling plans on large construction jobs. Currently assessing options for expansion of existing C&D recycling.	Ongoing	●●●●●
<b>Electronic Recycling</b>	●	The City has expanded residential e-scraps recycling to be part of its Convenience Center drop-off program at all three centers. Computers, monitors, TVs and more are accepted.	Ongoing	●●●●●
<b>Composting</b> Encourage household composting	●	Fairmount Park composting underway, commercial composting feasibility evaluation underway. City encouraging backyard and small-scale neighborhood composting.	Ongoing	●●●●●
<b>Saving Money and Reducing Trash (SMART)</b>	●	Future Initiative.		●●●●●
<b>Other Waste-Minimization Efforts</b> Impose a small fee on/ban plastic bags Ban styrofoam containers	●	Future Initiative.		●●●●●
<b>Anti-Littering Campaign</b>	●	Streets Department launched UnLitter Us Campaign in spring 2010.	Launch 2010/ Ongoing	●●●●●
<b>Paperless Office</b> Place more public records, plans and documents online	●	Paperless office initiative will include state of the art e-repository for public records. This will reduce paper use by City agencies and increase efficiency. Implementation will begin in 2011.	Launch 2010/ Ongoing	●●●●●
<b>Institute Sustainable Procurement Policy</b>	●	Planning underway.	Launch 2011/ Ongoing	●●●●●
<b>Study Energy-from-Waste Alternatives</b>	●	Future Initiative.		●●●●●
<b>Include Sustainability Criteria in Solid Waste Contracts</b>	●	Future Initiative.		●●●●●

**TARGET 8: MANAGE STORMWATER TO MEET FEDERAL STANDARDS**

<b>Maintain Recent Stormwater Regulatory Changes</b>	●	Over 120 million gallons in flow reduction achieved to date in 2010. Approved over 1,200 acres (roughly 1.2 billion gallons per year reduction) of development under the new stormwater regulations.	Launch 2010/ Ongoing	●●●●●
<b>Implement New Stormwater Fees &amp; Credits</b>	●	Phase I of parcel-based billing begins July 2010.	Launch 2010/ Ongoing	●●●●●
<b>Increase the Number of Green Roofs</b>	●	38 new green roofs constructed as of May 2010 (353,337 square feet/8.11 acres). Over 5.7 new acres planned on 12 additional buildings for 2010. Tied for 3rd in the country with NYC in total square footage of green roofs.	Launch 2009/ Ongoing	●●●●●
<b>Create Green Streets</b> Use green infrastructure methods on City streets Model neighborhoods demonstration projects	●	PWD Green Streets approved for \$30 million in funding to be spent over next two years. Construction begins summer 2010. Neighborhood projects currently under construction on Lancaster Avenue and Passyunk Avenue.	Launch 2010/ Ongoing	●●●●●
<b>Transform Vacant Land</b> Increase amount of green, open space (see Target 9)	●	The Department of Parks & Recreation is working with PennPraxis to research and write an action plan for meeting the Greenworks goal of 500 new acres of public open space.	Ongoing	●●●●●
<b>Create Wetlands</b> Create new tidal/non-tidal wetlands along Delaware and Schuylkill Rivers	●	Wises Mill and Cathedral Run wetland initiatives to begin construction May 2010. Urban wetlands registry project underway.	Launch 2010/ Ongoing	●●●●●
<b>Restore Waterways</b> Restore at least one mile of creeks and streams per year Upgrade sections of Cobbs, Mill and Tacony Creeks for recreational use	●	Planning, designing, and bidding underway for numerous restoration projects. Bells Mill, Wises Mill, St. Martin's Bridge, and Redd Rambler Run in progress. Long range plan in place for Cobbs, Mill, and Tacony Creeks.	Launch 2009/ Ongoing	●●●●●
<b>Green Surface Parking Lots</b> Allow the use of pervious pavement Change Zoning Code to require more tree screening	●	65 projects covering 25.7 acres approved for pervious pavement. Tree-screening under review in zoning code re-write. Zoning code recommendations include more robust tree planting requirements, landscaping, and other natural resource protections.	Launch 2010 Target 2011	●●●●●

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<b>Expand the Rain Barrel Programs</b>	●	Over 1,600 rain barrels distributed by PWD to date.	Launch 2009/ Ongoing	●●●●●
<b>Control Pollution and Trash on the Rivers</b>	●	658 tons of debris removed, and 28.1 tons skimmed from waterways in 2009.	Ongoing	●●●●●
<b>Improve Stormwater Management at City Airport Facilities</b> Pilot green roof project for train platforms Stormwater infiltration program at new cell phone lot	●	Rain barrel pilot on SEPTA platform in progress. Stormwater bioswales constructed in cell phone lot, plantings to be installed. PNE Native meadows in monitoring phase.	2011 2010 2011	●●●●●
<b>Develop Sustainable Stormwater Management Plan</b>	●	Submitted Green City, Clean Waters plan to EPA. Plan is the leading sustainable stormwater management plan in the country.	Launch 2010/ Ongoing	●●●●●

**TARGET 9: PROVIDE PARK AND RECREATION RESOURCES WITHIN 10 MINUTES OF 75 PERCENT OF RESIDENTS**

<b>Explore the Use of Innovative Financing for Open Space Development</b>	●	The Department of Parks & Recreation is working with PennPraxis to research and write an action plan for meeting the Greenworks goal of 500 new acres of public open space.	Ongoing	●●●●●
<b>Prioritize New Green Space Creation Within Low-Served Neighborhoods</b>	●	The above plan will focus particular attention on equitable distribution and access to open space across the City.	Ongoing	●●●●●
<b>Develop Parkland and Open Space Connections Along the City's Creeks and Rivers</b>	●	Lardner's Point Park created. City awarded competitive \$17.2 million TIGER grant in February 2010. Grant will partially fund the construction of seven bicycle/pedestrian trail projects along the Schuylkill River Trail and East Coast Greenway.	Launch 2010/Ongoing	●●●●●
<b>Increase Stability of Fairmount Park Ecosystem</b>	●	City secured competitive \$11.8 million Wildland Fire Management grant from U.S. Department of Agriculture. Grant funds will support a more stable, functional, and sustainable ecosystem in Fairmount Park.	Ongoing	●●●●●

**TARGET 10: BRING LOCAL FOOD WITHIN 10 MINUTES OF 75 PERCENT OF RESIDENTS**

<b>Expand the Number of Neighborhood Farmers Markets</b>	●	The Department of Public Health received \$15 million in competitive grants from the Centers for Disease Control for obesity prevention. Funding from the grant will support the creation of 10 new farmers markets in underserved locations. This year, The Food Trust and Farm to City will each open 2 new markets.	Launch 2010/ Ongoing	●●●●●
<b>Publicize Local Food-Source Efforts</b>	●	GPTMC received funding for publicity campaign for local food in Philadelphia. The City will improve information and communications efforts in 2010/2011.	Launch 2010/ Ongoing	●●●●●
<b>Provide Technical Assistance to Community Gardeners and Urban Farmers</b>	●	Pennsylvania Horticultural Society received a USDA grant to support the Community Growers Alliance. Will create 3 neighborhood Green Centers and support over 60 entrepreneurial growers.	Launch 2010/ Ongoing	●●●●●
<b>Leverage Vacant Land</b>	●	Department of Public Property created on-line list of available city-owned lots. City agencies are reviewing garden agreement process.	Ongoing	●●●●●
<b>Foster School-Based Efforts</b>	●	CDC grant supports creation of school councils that will address food issues. The Food Trust Farm to School program links four schools to local food.	Launch 2010/ Ongoing	●●●●●
<b>Foster Commercial Farming</b>	●	Parks & Recreation exploring opportunities for commercial farming on Fairmount Park land.	Launch 2010	●●●●●
<b>Encourage Distribution of Healthy Food in Neighborhood Stores</b>	●	CDC grant supports creation of 1,000 healthy corner stores in partnership with The Food Trust.	Launch 2010/ Ongoing	●●●●●
<b>Support Expansion of Food Co-ops</b>	●	City worked in 2010 to support expansion of Weaver's Way Co-op.	Launch 2009/ Ongoing	●●●●●
<b>Create an Urban Agriculture Workforce Strategy to Grow Green Jobs</b>	●	Future initiative.		●●●●●
<b>Support Green Kitchen Development</b>	●	City is supporting the Enterprise Center CDC development of Center for Culinary Enterprise and Philly Kitchen Share, as well as Overbrook Environmental Center kitchen.	Launch 2011	●●●●●
<b>Integrate Anti-Hunger Efforts into Food and Urban Agriculture Goals</b>	●	CDC grant will fund coupon for \$2 off the next visit for food stamp recipients who spend \$5 at a farmers market.	Ongoing	●●●●●

**E O U I T Y**

**TARGET 11: INCREASE TREE COVERAGE TOWARD 30 PERCENT IN ALL NEIGHBORHOODS BY 2025**

<b>Change Street Tree Rules Involving Property-Owner Permission</b>	●	Parks & Recreation working with the Law Department, Risk Management, and external partners to review legal liability and ownership issues with the goal of removing existing barriers.	Target 2010	●●●●●
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Initiative	Underway	Progress To Date	Timeline	Progress Bar
Prioritize Tree Planting in Low-Canopy, High-Crime Districts	●	Parks & Recreation studying canopy cover and targeting plantings.	Ongoing	●●●●●
Target Empty Tree Pits	●	Parks & Recreation reviewing empty tree pits across the City and focusing planting on areas of greatest need.	Ongoing	●●●●●
Strengthen and Increase Public-Private Maintenance Partnerships	●	City is working with PHS Tree Tenders and community groups.	Ongoing	●●●●●
Fully Stock Street Trees Adjacent to All City Facilities	●	Planting adjacent to recreation centers and analyzing other City facilities such as libraries and health centers for planting opportunities.	Ongoing	●●●●●
Revise the Zoning Code Regarding Trees for Surface Parking Lots	●	City Planning Commission released Design Guidelines for Off-Street Parking, which Zoning Code Commission will incorporate into new zoning code.	Target 2011	●●●●●
Decrease the Cost of Tree Planting	●	In addition to planting street trees, promoting lower cost planting options such as planting in yards, private land, and parks.	Ongoing	●●●●●
Establish City-wide Public Tree Planting Campaign	●	Green Philly, Grow Philly tree planting campaign kicked-off in April 2010.	Launch 2010	●●●●●
Create Urban Tree Forest Management Program	●	During 2010 Parks & Recreation merger, Division of Urban Forestry and Ecosystem Management was created and charged with urban forest management.	Launch 2010	●●●●●
Initiate City-Based Growing Green the Schools	●	Searching for appropriate sites and partners.	Target 2011	●●●●●
Launch Local Carbon Offset Market	●	Establishing a schoolyard greening initiative in partnership with the School District of Philadelphia. A notable example is Greenfield Elementary School, which completed the first phase of greening during the summer of 2009 and will proceed with the second phase in summer 2010.	Ongoing	●●●●●
<b>TARGET 12: REDUCE VEHICLE MILES TRAVELED BY 10 PERCENT</b>				
Develop New Fare Card Technologies	●	Project moving forward to vendor selection.	2012/2013	●●●●●
Further Improve Service and Safety	●	1.3% safety improvement over 2009 in first half of 2010, based on an indexed measure of five safety & security indicators.	Ongoing	●●●●●
Invest in Current Transit Infrastructure	●	\$191 million in recovery-related capital investment partially offset recent loss of \$110 million in annual capital funds from PennDOT.	Ongoing	●●●●●
Ensure Sustained Transit Funding	●	Extensive lobbying underway to replace lost Act 44 solvency.	Ongoing	●●●●●
Plan for an Expanded System	●	Evaluating transit services connecting Center City with the Delaware Waterfront.	Ongoing	●●●●●
Make Transit-Oriented Development Investments	●	Secured State funding for streetscaping around Temple Regional Rail station.	Ongoing	●●●●●
Upgrade Commercial Corridors	●	Projects underway across many Philadelphia neighborhoods.	Ongoing	●●●●●
Develop a Pedestrian and Bicycle Master Plan	●	The City Planning Commission is working with City agencies and external partners to develop a Pedestrian and Bicycle Plan for the City of Philadelphia.	Target 2012	●●●●●
Build an East-West Bicycle Corridor	●	Successful pilot East-West corridor along Spruce and Pine Streets completed 2009.	2009	●●●●●
Develop More Off-Road Bike Trails	●	Secured \$17.2 million competitive U.S. Department of Transportation grant to fill critical gaps in the City's walking and biking trail network.	Ongoing	●●●●●
Explore the Creation of a Bicycle-Sharing Program	●	Future Initiative.		●●●●●
Expand the Number of Bike Racks	●	2,000 new bike racks being installed, 1,800 of which will be converting decommissioned parking meter poles.	2010	●●●●●
Create Bike Parking Stations	●	Future Initiative.		●●●●●
Design and Implement Complete Streets	●	Mayor Nutter signed Executive Order on Complete Streets in 2009. The order requires consideration of the safety and convenience of pedestrians, bicyclists, public transit users, and motor vehicle drivers. Complete Streets Handbook in development 2010.	Launch 2009/ Ongoing	●●●●●
Increase traffic calming measures	●	Future Initiative.		●●●●●
Change Tax Classification for Car Share Programs	●	Future Initiative.		●●●●●
Reduce Parking Ratios for Buildings with Designated Bike and Car Share Spots	●	Zoning code recommendations include a review of parking requirements aimed at reductions, consideration of required bicycle and shared parking facilities, and other incentives and requirements to reduce vehicle miles travelled.	Target 2011	●●●●●

Implement Airport Bicycle Access Plan	●	Center City to Airport bicycle access plan completed 2009. Bicycle Access Plan brochures are currently being distributed regionally.	2010	●●●●●
<b>TARGET 13: INCREASE THE STATE OF GOOD REPAIR IN RESILIENT INFRASTRUCTURE</b>				
Investment in Public Property Management Systems	●	Future Initiative.		●●●●●
Improve Road Maintenance and Upgrade Bridges	●	Recovery funds secured to assist with repaving 90 miles of streets as well as the longest airport runway. Secured \$200 million in low interest loans for PWD infrastructure improvements. South Street bridge construction to conclude 2010.	Ongoing	●●●●●
Acknowledge Climate Change in Infrastructure Planning	●	The Streets Department, Airport, and SEPTA are all addressing this issue in their long-range planning processes.	Ongoing	●●●●●
<b>TARGET 14: DOUBLE THE NUMBER OF LOW- AND HIGH-SKILL GREEN JOBS</b>				
Conduct a Market Analysis	●	Keystone Research Center conducting a green jobs study for Mayor's Office of Sustainability. Additionally, Phase II of a market analysis focused on start-up businesses and technology transfer underway, funded by Living Cities Foundation.	Target 2010	●●●●●
Create a Green Economy Stakeholder Task Force	●	Future Initiative.		●●●●●
Raise Awareness About Green Jobs	●	Mayor and City officials publicly advocating and supporting green jobs and green workforce expansion.	Ongoing	●●●●●
Re-brand Philadelphia for Business Development Efforts	●	The Philadelphia Industrial Development Corporation is aggressively promoting sustainable business development at the Navy Yard. Working with Ben Franklin Technology Partners to continue the development of the Clean Energy Campus.	Launch 2010/ Ongoing	●●●●●
Support and Connect Energy Research and Academia	●	Penn State, the Wharton Small Business Development Center at the University of Pennsylvania, the Philadelphia Industrial Development Corporation, and the Delaware Valley Industrial Resource Center co-applied for a Department of Energy "Energy Regional Innovation Cluster" grant for \$130 million to fund energy-efficient building systems research in May 2010.	Ongoing	●●●●●
Make Strategic Programmatic Investments to Increase Market Demand	●	Utilized Recovery funds to develop training programs in high-growth green industries and place workers in green jobs. Philadelphia received more Pathways Out of Poverty grants than any other city in the country.	Launch 2009/ Ongoing	●●●●●
Diversify the Green Workforce	●	Opportunities in the green workforce being actively promoted by a broad network of community, non-profit and workforce development organizations.	Ongoing	●●●●●
Create a Regional Green Jobs Training Center	●	The Energy Coordinating Agency opened the John S. and James L. Knight Green Jobs Training Center in 2010. This 18,000 square foot facility was renovated to the LEED Gold standard, and provides entry through senior level green job training and certification.	Complete 2010	●●●●●
Create a Green Job Corps	●	Future Initiative.		●●●●●
<b>TARGET 15: PHILADELPHIA IS THE GREENEST CITY IN AMERICA</b>				
Reach Out to Stakeholders	●	Internal and external working groups regularly convened.	Ongoing	●●●●●
Develop Social Marketing and Public Education Campaigns	●	Using website, Facebook, and e-newsletter to promote MOS initiatives. UnLitter Us campaign launched 2010. Energy Efficiency campaign to launch summer 2010. Other specific marketing campaigns under consideration.	Ongoing	●●●●●
Use Data to Measure Results	●	Greenworks Project Management Database to come online June 2010. Metrics tracking and reporting to occur regularly.	Launch 2010/ Ongoing	●●●●●
Publish Annual Report	●	First annual report released May 2010.	Launch 2010/ Ongoing	●●●●●
Regularly Update Website	●	New website to launch spring 2010. Content to be updated frequently.	Ongoing	●●●●●