

# GOING GREEN DOWNTOWN

## A SUSTAINABILITY GUIDE FOR MARYLAND'S MAIN STREETS



*Brought to you through a partnership of the  
Maryland Department of Housing and Community Development  
and the Maryland Department of Natural Resources*

# CONTENTS



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GOING GREEN DOWNTOWN.....	2
WHAT IT MEANS TO BE GREEN: VIBRANT COMMUNITIES AND BUSINESSES .....	3
BUILD IT GREEN.....	4
HISTORIC PRESERVATION IS GREEN.....	6
GREEN DOWNTOWNS: LESS IS MORE.....	8
ENHANCING DOWNTOWN WITH GREEN SPACES .....	12
STORMWATER: SLOW IT DOWN, SPREAD IT OUT, SOAK IT IN.....	15
SUSTAINABLE TRANSPORTATION: LINKING IT ALL TOGETHER.....	17
RALLY 'ROUND THE DOWNTOWN.....	20
READY, SET, GREEN! .....	24

# SMART, GREEN AND GROWING

## MESSAGE FROM THE GOVERNOR

**M**aryland's dynamic Main Street communities allow us to celebrate and build upon the State's rich history. Collectively, they define what is unique about our State, from the majestic Allegany Mountains to the gateways of the Eastern Shore. They are the village squares, the historic buildings, and the unique family destinations that provide opportunities to eat, shop and learn about the incredible legacy we have inherited as Marylanders.

Increasingly, chronic over development threatens not only the economic survival and character of these communities, but also our treasured Chesapeake Bay. Over the past 30 years, Maryland's population has increased by 30 percent while our consumption of land has increased by 100 percent — pulling vital resources and people away from traditional business districts.

Today Maryland's *Smart, Green & Growing* initiative is providing businesses, governments and residents the tools they need to get started, get involved and contribute to protecting our natural resources, revitalizing our cities and towns, and enhancing our economic well-being. Through strategies like Main Street Maryland's *Clean, Safe and Green*, citizens are able to reinvest in historic downtowns through projects and programs that use less energy and water resources, minimize waste, and help support the local economy.

By choosing to grow in a smarter, greener, more sustainable manner, we can preserve our natural resources, protect our environment, and enhance our quality of life, all while growing our economy and saving money in infrastructure and personal expenses. Working together as One Maryland, we are strengthening our vital downtowns and neighborhoods to make lasting progress for Maryland families of today and tomorrow.



Martin O'Malley





# GOING GREEN DOWNTOWN

## MAKING MARYLAND'S DOWNTOWNS MORE SUSTAINABLE



Sam Kittner Photographer

From Oakland to Ocean City, Maryland's citizens share the same goal of living in healthy, vibrant communities where they can live, work and prosper. As a result, communities have a major investment in the infrastructure — streetscapes, schools, water/sewer lines — of their traditional downtowns and neighborhoods. These communities are also faced with the challenges of the coming decades including an increasing population, rising energy costs, limited resources, water and air pollution, and climate change.

This guide, a collaboration between the Maryland Department of Housing and Community Development (DHCD) and the Maryland Department of Natural Resources (DNR), is designed to address those challenges, giving communities throughout Maryland an important set of principles, guidelines, and examples of how to pursue and implement sustainable practices. Sustainability emphasizes the

balance between economic, social and environmental resources needed for today with preserving those same resources for future generations. In order to maintain and even expand those resources, there needs to be a focus on best practices such as compact mixed use development, rehabilitation and reuse, and pedestrian orientated design — all major characteristics found in Maryland's historic Main Street communities.

Since 1998, DHCD's Main Street Maryland program has strived to improve the economy, appearance and image of the State's traditional business districts, utilizing the National Main Street Center's Four-Point Approach™. In addition to the Four Points, DHCD has initiated a **Clean, Safe and Green** strategy to increase sustainability in Maryland's designated Main Street communities. With a commitment to adopting green strategies that impact and benefit businesses, residents and visitors, Main Street Maryland communities provide some best practices that can be implemented in downtowns across the State. There is a strong connection between how we treat the built environment and the quality of our natural environment—this guide brings that connection into focus.



Sam Kittner Photographer

We can reshape our communities by reinvesting in older areas, reducing waste and improving energy efficiency. Making Maryland's downtowns more sustainable ensures that communities will be **Smart, Green and Growing** for generations to come.

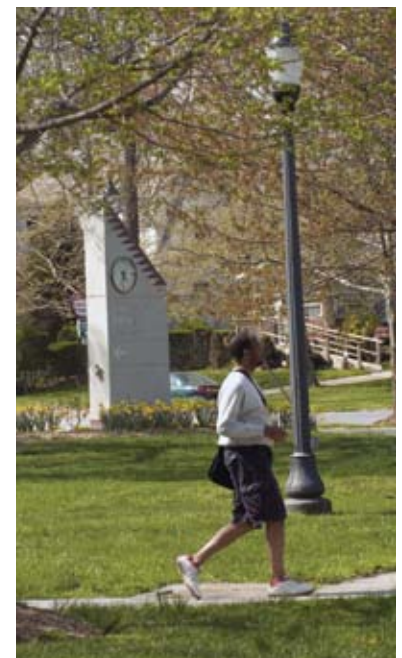
# WHAT IT MEANS TO BE GREEN

## *Vibrant Communities and Businesses*

Sustainable and “green” communities seek to conserve resources; provide open spaces and parks for recreation and cultivation; offer multiple options for transportation; use natural and cultural resources wisely to conserve for future generations and consider the social and economic needs of all residents. A “green community” strives to have a strong economy, serve residents and visitors alike, as well as minimize environmental impacts.

When thinking about ways your community can implement green or more sustainable practices the following strategies should be considered and are looked at more closely throughout this guide:

- CREATING GREEN SPACES
- BUILDING USE AND EFFICIENCY
- WATER CONSERVATION
- LAND USE AND PLANNING
- RECYCLING



Photos by Sam Kittner Photographer

# BUILD IT GREEN

## Green Communities in Action: Montgomery Park

Numerous green roofs are already in place in Maryland's downtowns. One prominent example is Montgomery Park, a former Montgomery Ward warehouse in Baltimore City's Washington Village Main Street that was renovated to become a mixed use property. Tenants include the Maryland Department of the Environment and other retail and office uses. The building's 30,000 square foot green roof features alpine plants, which thrive in extreme temperatures, winds, and drought, while requiring minimal soil depth.

**B**uildings define the character of a Main Street or traditional business district, and are also large components of the downtown's environmental impact or "carbon footprint". In the United States, buildings consume approximately 40% of all energy and emit approximately 40% of all carbon dioxide. Making buildings green or more efficient can reduce energy use and costs and minimize pollution. Sustainable building practices can preserve and enhance the community's overall appearance, especially when existing buildings are re-used and renovated with energy- and resource-saving appliances, fixtures, and materials. Green buildings can also have economic benefits, generating higher rental and sale prices, as well as higher occupancy rates.<sup>1</sup>

Green building features extend beyond design and building materials<sup>2</sup>. Buildings can encourage sustainability by including a mix of uses (for example, residential units above ground-floor retail space). The provision of affordable housing is also a green building technique, since it promotes economic sustainability for the community's residents, helping everyone live close to where they work. Locating a building in a walkable, transit-served location—such as Main Street—reduces automobile reliance and encourages social connections between residents, business owners, and visitors.

## BENEFITS OF A GREEN BUILDING

- Lower costs for energy, water, and sewer service;
- Increased asset value and return on investment, especially through LEED or equivalent accreditation;
- Qualification for tax rebates and other incentives;
- Reputation as a "green" business can facilitate employee and client recruitment/retention;
- Improved productivity and reduced health care costs for employees; and
- Reduced impact on the community's air, water, and biological resources.

## GREEN TOOLKIT: TOP IT OFF WITH A GREEN ROOF

Encouraging the replacement of standard roofing materials with "green" or vegetated roofs can have several long-term benefits. Vegetation retains rainwater, returning a portion to the atmosphere through evaporation and transpiration and thereby cooling rather than heating a building in warm weather, and minimizing heat loss in winter. Other benefits of green roofs include improved air quality, longevity of roofing materials, habitat for wildlife, competitive lifecycle costs, and cleaner stormwater runoff. Green roofs can also help to reduce temperatures in urban areas, which are often several degrees warmer during the summer—a phenomenon known as the "urban heat island effect."



Montgomery Park in  
Baltimore City

## LINKS TO TECHNICAL AND FUNDING ASSISTANCE

US Green Building Council LEED Rating Systems

[www.usgbc.org/DisplayPage.aspx?CMSPageID=222](http://www.usgbc.org/DisplayPage.aspx?CMSPageID=222)

Directory of LEED Accredited Professionals

[www.gbci.org/LEED/AP/ViewAll.aspx?CMSPageID=59](http://www.gbci.org/LEED/AP/ViewAll.aspx?CMSPageID=59)

The Playbook for Green Buildings and Neighborhoods

[www.greenplaybook.org](http://www.greenplaybook.org)



## “LEED” YOUR COMMUNITY TO BETTER BUILDINGS

One of the best known green building initiatives is the US Green Building Council’s (USGBC) Leadership in Energy and Environmental Design (LEED) rating systems for buildings and neighborhoods. LEED certification for buildings is determined based on scores related to water conservation, energy use, air pollution, solid waste, and indoor air quality. Accreditation confirms that a building’s owners and managers have minimized the building’s environmental impacts in these areas. In Maryland, Montgomery County, Howard County, and Baltimore City have either passed or have pending legislation requiring LEED certification for new commercial buildings that exceed a minimum square footage threshold.

LEED certification is not a requirement for a building or community to be considered sustainable or “green”. Instead, emphasizing a few key components of LEED in Main Street buildings can go a long way toward making the downtown more sustainable. In particular, communities and building owners can focus on water conservation and efficiency (particularly in landscaping), energy-efficient appliances and lighting, and careful choices regarding building materials. *(See page 8 for more details related to conserving resources.)*

### GREEN TOOLKIT: CERTIFICATION FOR NEIGHBORHOODS

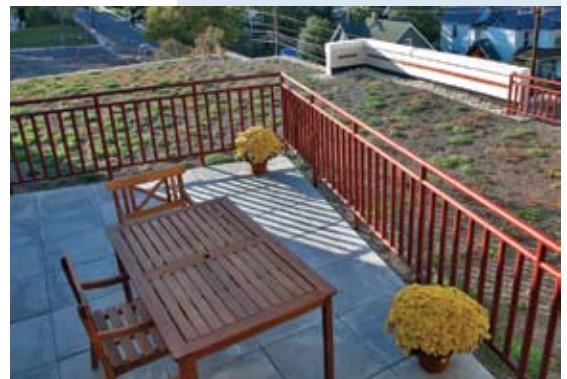
The LEED rating system is best known as applicable to individual buildings. However, the USGBC is also developing a rating system for entire communities and neighborhoods. The LEED for Neighborhood Development (LEED-ND) system is intended to guide the location and design of communities to promote smart growth, enhance community health, and protect the natural environment. The LEED-ND system strongly encourages:

- Sites close to existing town and city centers;
- Areas with good transit access;
- Infill sites;
- Previously developed sites; and
- Sites adjacent to existing development

Five communities in Maryland are part of the LEED-ND pilot study. These communities are Aventiene/Crown Farm in Gaithersburg, Decker Walk in Baltimore, the East Baltimore Development Initiative, Glenmont Metrocenter in Silver Spring, and Twinbrook Commons in Rockville. More information can be found at [www.usgbc.org/LEED/ND/](http://www.usgbc.org/LEED/ND/).



The Renaissance Square building in Hyattsville provides moderate-income housing in a transit-accessible location. It also incorporates several sustainable features, such as green roofs.



### Green Communities in Action: Renaissance Square

Occupying the site of an abandoned office building, Renaissance Square includes affordably-priced artists’ housing, gallery space and a performance studio. As part of construction, environmental contamination from previous site uses was cleaned up, reducing the overall environmental impact of the project and turning a liability into a community asset. The project incorporates features that reduce impervious surfaces, conserve water and energy, improve indoor air quality, and reduce residents’ dependence on cars. Sustainable features include:

- A green roof that insulates the building’s living spaces and collects water for landscaping
- Indoor bicycle storage;
- High efficiency water fixtures and appliances;
- Enhanced insulation in the walls and roof reduce loss of heated/cooled air;
- Building materials with recycled content; and
- Proximity to the US 1 transit corridor.

More information can be found at [www.hiphomes.org/rent](http://www.hiphomes.org/rent)

Environmental Practices for Restaurants  
[www.greenrestaurants.org](http://www.greenrestaurants.org)

Federal Tax Credits for Energy Efficiency  
[www.energystar.gov/index.cfm?c=products.pr\\_tax\\_credits#s8](http://www.energystar.gov/index.cfm?c=products.pr_tax_credits#s8)

Maryland Income Tax Credit for Green Buildings  
[www.energy.state.md.us/incentives/business/greenbuilding/index.asp](http://www.energy.state.md.us/incentives/business/greenbuilding/index.asp)

LINKS TO  
TECHNICAL  
AND FUNDING  
ASSISTANCE

# HISTORIC PRESERVATION IS GREEN



In addition to the social and economic benefits offered by green buildings, the adaptive reuse of existing structures also helps to maintain and capitalize on the distinct historic character of Maryland's downtowns. Preservation maximizes the use of existing materials and infrastructure, reduces waste, and preserves the aesthetics of older cities and towns. Historic preservation is one of the earliest green activities! Indeed, commercial buildings constructed before 1920 are just as energy-efficient as modern buildings constructed since 2000.<sup>3</sup> There are many ways to reuse old structures, reinvest in historic communities, and renew historic buildings to successfully blend the past with the present, creating a dynamic place to live, work, or visit.

- **Reuse** existing buildings to reduce the amount of demolition and construction waste deposited in landfills, lessen the unnecessary demand for new energy and other natural resources needed to construct a new building, and conserve the energy originally expended to create the structures.
- **Reinvest** in older and historic communities. These communities tend to be centrally located, dense, walkable, and are often mass-transit accessible. Reinvestment in these communities also preserves the energy expended in creating the existing infrastructure, such as roads, water systems and sewer lines. Utilizing existing resources allows us to create sustainable communities by encouraging reinvestment in historic assets.
- **Retrofit** historic buildings to extend building life and better capture the energy savings available through newer technologies.

Local regulations and guidelines play an important role in the way that historic buildings are reused and retrofitted. Local Historic District Commissions or local governments often maintain specific design guidelines for renovations to historic properties. These guidelines can significantly influence adaptive reuse of historic buildings, and representatives from local government and/or Historic District Commissions should be involved in efforts to link historic resources with downtown sustainability. Additionally, the Maryland Building Rehabilitation Code encourages the rehabilitation and reuse of existing buildings, for more information visit [mdcodes.umbc.edu/dhcd2/rehab-new.htm](http://mdcodes.umbc.edu/dhcd2/rehab-new.htm).



Sam Kittner Photographer

Rehabilitation of historic buildings, such as these in Cumberland and Frostburg, helps to make the downtown more sustainable.



Sam Kittner Photographer

LINKS TO  
TECHNICAL  
AND FUNDING  
ASSISTANCE

National Trust for Historic Preservation: Preservation and Sustainability  
[www.preservationnation.org/issues/sustainability](http://www.preservationnation.org/issues/sustainability)

Preservation Maryland  
[www.preservationmaryland.org](http://www.preservationmaryland.org)

Traditional Building (Historic/Recycled Building Material Suppliers)  
[www.traditional-building.com](http://www.traditional-building.com)



## GREEN TOOLKIT: GREENING A HISTORIC BUILDING OR COMMUNITY

Historic properties are valuable, not only for the sense of authenticity they lend to an area, but also because their building materials are already in place. Some potential improvements to existing buildings include:

- Energy audits help property owners identify energy drains such as air leakage and inefficient mechanical systems.
- Adding insulation and weather-stripping are easy and inexpensive ways to improve a building's efficiency, while retaining important historic building materials.
- For more extensive projects consider obtaining a green building certification such as LEED.
- In some cases, it may be feasible to install a green roof.
- Plant appropriate trees to buffer winter winds and provide summer shade, but be careful not to plant too close to the building, which can cause moisture infiltration.
- Architectural research can help to identify not only the history of an area, but also the materials that were historically used. The past use and appearance of the building can be helpful in determining ways to incorporate this past into a new updated use.

On a community-wide level, conduct an analysis to evaluate viewsheds (views to accentuate and views to screen), pedestrian circulation, accessibility (ADA), and existing historic materials such as light fixtures, street furniture, paving and plantings. Historic travel patterns in towns focused on pedestrian activity. Re-configuring downtowns to favor pedestrians while minimizing the amount of land devoted to parking can also have environmental benefits without compromising economic health. *(See pages 17-19 for more recommendations related to transportation).*



Sam Kittner Photographer

Historic preservation and adaptive reuse have helped to spur downtown Frederick's economy.

### Green Communities in Action: *Integrating Green and Historic in Frederick*

Established in 1745, Frederick has deep roots in both Revolutionary and Civil War history. Downtown Frederick is home to an impressive collection of historic buildings that have been part of Downtown Frederick's ongoing revitalization. Practically all of Downtown Frederick's 2,500-plus historic properties have been renovated for modern use as residences, offices, restaurants, and shops.

By reusing and retrofitting its historic buildings, Frederick not only reduces waste but also realizes an economic benefit. The City reports that about 1.4 million visitors per year come to Downtown Frederick for its historic resources and character.

Frederick's downtown revitalization extends beyond historic buildings. A series of flood control and urban design projects have enabled the City to integrate Carroll Creek as a community amenity, rather than a potential flood liability for buildings and businesses.

Maryland Historical Trust Rehabilitation Tax Credits  
[www.marylandhistoricaltrust.net/taxcr.html](http://www.marylandhistoricaltrust.net/taxcr.html)

Federal Historic Preservation Tax Incentives  
[www.nps.gov/history/hps/TPS/tax/index.htm](http://www.nps.gov/history/hps/TPS/tax/index.htm)

The National Trust for Historic Preservation Loan Fund  
[www.preservationnation.org/resources/find-funding/loans/national-trust-loan-fund](http://www.preservationnation.org/resources/find-funding/loans/national-trust-loan-fund)

LINKS TO  
TECHNICAL  
AND FUNDING  
ASSISTANCE

# GREEN DOWNTOWNS

## Less is More



**G**reen buildings are not the only components of a sustainable community. A good community conservation plan includes ways to save energy, conserve water, and reduce the amount of solid waste generated. Downtown is a great place to start! One way for downtown businesses to be a part of a local conservation plan is through Maryland Green, a voluntary self-certification program of the State's Smart, Green, and Growing initiative. Maryland Green offers tips and resources to help businesses and other organizations set and meet their own sustainability goals. More information is available at [www.green.maryland.gov](http://www.green.maryland.gov).

### THE '3 R'S': REDUCE, REUSE, RECYCLE

Pollution prevention and recycling can be effective tools for reducing waste, minimizing landfill use, and reducing pollution. Such initiatives can also reduce costs to the downtown, leaving more money for other initiatives. The phrase, "reduce, reuse, recycle" is more than a motto, it's an important guideline for green communities.



**Reduce:** Reducing or preventing pollution can lower solid waste disposal and handling costs, conserve resources, and reduce pollution.

**Reuse:** Reusing items helps to reduce solid waste, while keeping our personal and community budgets healthy.

**Recycle:** Recycling reduces water pollution and the need for landfills and incinerators, and can create jobs and promote fiscal health. Jurisdictions can also profit by reselling recycled materials. Depending on your location, a wide variety of materials used in business districts can be recycled, such as cardboard, used computer components, and other electronic waste.

### GREEN TOOLKIT: PRACTICING THE THREE "R'S"

#### AT WORK

- Participate in your community's commercial recycling program, or help start one.
- Use office products that contain post-consumer recycled material.
- Provide reusable or biodegradable cups, plates, cutlery etc. to employees and restaurant patrons.
- Contribute edible but unsalable food to a food bank.

#### AT HOME

- Use non-toxic cleaning products, especially when working outside.
- Use rechargeable batteries for small appliances.
- To save paper, opt to receive e-bills, e-statements, and pay your bills online.
- Use cloth napkins and towels rather than paper towels and napkins.
- Start or participate in a community recycling program.

LINKS TO  
TECHNICAL  
AND FUNDING  
ASSISTANCE

Green Vendors (recycled products):

[www.thegreenoffice.com](http://www.thegreenoffice.com)  
[www.treecycle.com/catoffice.html](http://www.treecycle.com/catoffice.html)  
[www.recycledproducts.org](http://www.recycledproducts.org)  
[www.green-mary.com](http://www.green-mary.com)

The Freecycle Network  
[www.freecycle.org](http://www.freecycle.org)

## RECYCLING IN YOUR COMMUNITY

According to Maryland Department of the Environment (MDE), the average Maryland citizen disposes of more than seven pounds of trash per day. A successful recycling program involves local businesses, residents, neighborhood associations, civic organizations, schools, and local government. Since commercial and institutional operations are generally the source of the most recyclable waste, a community-wide recycling effort should have both a residential and non-residential component.

### FIRST STEPS

- Local government or business associations should take the lead in finding an agency or contractor to collect and haul recyclable materials to a local recycling facility on a regular schedule.
- Distribute recycling containers to businesses and residents. On Main Street, recycling containers should be placed alongside trash cans, to make it easy and convenient to recycle.
- Individual businesses with small recyclable outputs may wish to set up a cooperative recycling program with other nearby businesses, to help ensure regular pickup.

### KEEPING IT GOING

- Develop promotional and educational materials to inform residents, businesses, offices, and restaurants of the importance of recycling. Some local governments can conduct waste generation audits for their local business community.
- Individuals, businesses, and business or neighborhood associations can partner with Recycle Bank, which provides monetary incentives for individual household recycling ([www.recyclebank.com](http://www.recyclebank.com)).
- Schools can partner with the Green School Project, which pays schools and nonprofit organizations to recycle printer cartridges, cell phones, and PDA devices ([www.greenschoolproject.com](http://www.greenschoolproject.com)).
- Local government can establish regulatory incentives to encourage recycling and waste reduction. Some examples can include:
  - “Pay-as-you-throw” solid waste pricing, in which solid waste collection fees are based on the amount thrown away to reduce the amount of recyclable material sent to the landfill ([www.epa.gov/epawaste/conserves/tools/payt/index.htm](http://www.epa.gov/epawaste/conserves/tools/payt/index.htm)).
  - Recycling and disposal fees for hard-to-dispose items such as tires and batteries.



MDE educates communities on how recycling paper, plastic and cans can reduce waste from 7 lbs. to only four items reaching our landfills.

Annapolis recycling bin.

### Green Communities in Action: Commercial Recycling in Annapolis

Building on its successful residential recycling program, Annapolis has begun a commercial recycling initiative. In Annapolis' compact downtown, many buildings have limited areas for storing trash and recyclables. Recognizing these constraints, based on consultation with downtown businesses, the City encourages recycling and waste reduction by:

- Identifying space for common storage enclosures, shared by adjacent businesses, such as the corners of parking lots, and coordinating with businesses that do have adequate storage space for solid waste. This approach requires proper maintenance and sanitation.
- Requiring new owners or owners applying for renovation permits to provide an interior trash room to accommodate trash, recycling, and grease cans.
- Conducting waste audits for businesses, to show how much current waste is recyclable, and how much money can be saved (in solid waste collection fees) by diverting trash to recycling.

In addition to its commercial recycling efforts, Annapolis has also installed recycling bins in prominent places (including tourist areas) in the downtown. For more information, check out the City's website [www.ci.annapolis.md.us](http://www.ci.annapolis.md.us).



Photo credit: ERM

U.S. EPA “Pay-as-you-throw”:  
[www.epa.gov/epawaste/conserves/tools/payt/index.htm](http://www.epa.gov/epawaste/conserves/tools/payt/index.htm)

Partnership for Bar and Restaurant Recycling  
[www.partnership4recycling.org](http://www.partnership4recycling.org)

Maryland Recycles  
[www.mdrecycles.org](http://www.mdrecycles.org)

LINKS TO  
TECHNICAL  
AND FUNDING  
ASSISTANCE



## Green Communities in Action: Water Conservation in Mount Airy

Citizens for a Green Mount Airy and the Town held a Water Conservation Workshop to educate the public about effective water-saving techniques. The Mayor gave out free toilet tank banks, diverter valves, shower timers, faucet aerators and low flow showerheads.

Participants were given a presentation on high-efficiency washing machines and toilets. Tips for the installation and maintenance of rain barrels were provided and 20 free barrels were distributed to town residents.

In other efforts to conserve water and maintain quality, the Town has installed new water meters and updated their leak detection systems. The community group Citizens for a Green Mount Airy also makes rain barrels and dual flush toilets available at a reduced cost. See [www.greenmountairy.org](http://www.greenmountairy.org).

## THE WATER-CONSCIOUS DOWNTOWN

Water conservation on our Main Streets puts less strain on drinking water supplies, while also reducing wastewater discharges that pollute our streams, rivers, and the Chesapeake Bay. Conserving water can postpone or eliminate the need for making major investments in new water and sewer infrastructure. Conserving water waste also puts less of a strain on the community during droughts. Some strategies for conserving water in the business district include:

**Audits:** Conduct water use audits to provide information about how water is used and help identify potential conservation strategies.

**Building Systems:** Repair existing plumbing leaks and perform maintenance (such as corrosion control) on pipes to prevent leaking. Install water saving plumbing fixtures and water-efficient appliances, such as low-flow faucets, shower heads, and toilets.

**Business Practices:** Train employees to conserve water. For example, restaurants can adopt policies of serving water only when requested by a customer.

**Education and Information:** Encourage efficient water use and conservation through business associations, community newsletters and bulletin boards, and by individual example. A good educational program can be very effective in reducing consumer demand.

**Metering:** Contact your Department of Public Works to ask about updated water metering (or new metering if none exists). Installing and updating meters can reduce unmetered and/or unauthorized water use. Reporting broken pipes, open hydrants, and other significant water problems to the appropriate local government or utility can also help to minimize water loss.

**Water-Efficient Landscaping:** Divert water from roof and air conditioning runoff directly into planters or rain barrels for use in landscaping (see pages 15-16 for more information). Minimize outdoor watering through landscape design and species selection. Use native plants or species that are drought resistant and/or tolerant of urban conditions, and position downspouts into landscaped areas. Rain sensors can be distributed for irrigation systems, and daily watering guides can be posted on community websites. Set sprinklers to water the lawn or garden only – not the street or sidewalk and use soaker hoses or trickle irrigation systems for trees and shrubs. Sweep sidewalks instead of using a hose. Water during the coolest part of the day.

**Pricing:** Water pricing policies should encourage conservation. Progressive price structures, with higher prices for larger water volumes, are one option.

Sweeping sidewalks instead of hosing them down reduces runoff and conserves water.



Sam Kittner Photographer



Sam Kittner Photographer

## LINKS TO TECHNICAL AND FUNDING ASSISTANCE

MDE Water Conservation Tips for Businesses and Households

[www.mde.state.md.us/Programs/WaterPrograms/Water\\_Conervation/index.asp](http://www.mde.state.md.us/Programs/WaterPrograms/Water_Conervation/index.asp)

US EPA WaterSense

[www.epa.gov/watersense](http://www.epa.gov/watersense)

Low-Flow Plumbing Fixtures

[www.eartheasy.com/shop/water\\_save.htm](http://www.eartheasy.com/shop/water_save.htm)

## FIND YOUR ENERGY GROOVE: REDUCE YOUR USE

Energy-efficient buildings and practices reduce demand on the power grid and natural gas supplies, improve local air quality, save consumers money, and consume fewer natural resources. Choosing energy-efficient products—specifically those labeled as Energy Star—can save about 30% on energy bills, while reducing emissions of greenhouse gases.

### GREEN TOOLKIT: HOW TO CONSERVE ENERGY

A number of strategies can help conserve energy in the downtown and throughout the community.

#### WHAT LOCAL GOVERNMENT AND COMMUNITY GROUPS CAN DO

- Reduce excess energy use from street lights. Use compact fluorescent or light emitting diode (LED) bulbs in existing fixtures. Where feasible, replace older lampposts or external light fixtures with more energy efficient fixtures, such as low pressure sodium (LPS) systems.
- Encourage (or require, through zoning and other ordinances) businesses to use night lighting only when necessary for safety. Encourage or require businesses and residences to use motion sensors for outdoor lighting.
- Provide information to residents and businesses about the availability of Energy Star ([www.energystar.gov](http://www.energystar.gov)) and other energy-efficient appliances.
- Promote energy conservation through business associations, community newsletters and bulletin boards, and by individual example.

#### WHAT BUSINESSES AND RESIDENTS CAN DO

- Conserve electricity by turning off lights and unplugging appliances when not in use.
- Insulate your building, hot water heater, and pipes. Use caulking and weather stripping to plug air leaks around doors and windows
- Buy energy-efficient compact fluorescent bulbs for your most-used lights.
- Have leaky air conditioning and refrigeration systems repaired.
- Install a programmable thermostat and set it higher in the summer and lower in the winter. Each degree warmer (in the summer) or cooler (in the winter) can save as much as 1% of your annual heating and cooling costs.<sup>4</sup>
- Run dishwashers and clothes washers only when full and use the energy saving setting, if available.



An Energy Conservation Workshop in Mount Airy helped to educate citizens about ways to reduce energy use.

Photo credit: Citizens for a Green Mount Airy

### EmPOWER Maryland Sets State Efficiency Goals

Through the EmPOWER Maryland initiative State agencies are developing conservation measures to reduce energy consumption by 15% by 2015. Those measures include seven steps:

1. Improve building operations by replacing incandescent lights with compact fluorescent lights and asking each State employee to reduce energy use.
2. Expand energy performance contracting.
3. Increase the State Agency Loan Program, which funds energy-efficient lighting, controls, and HVAC.
4. Require all new State buildings larger than 20,000 square feet to be more energy efficient.
5. Purchase ENERGY STAR® products and environmentally friendly cleaning and maintenance products to save energy and reduce the State's environmental footprint.
6. Expand the Community Energy Loan Program, which provides low-interest revolving loans to local governments and nonprofit organizations to install energy efficiency improvements.
7. Ensure accountability by incorporating energy data into StateStat, the Maryland statistics-based government management process.

US Department of Energy – Energy Saving Tips  
[www.energy.gov/energysavingtips.htm](http://www.energy.gov/energysavingtips.htm)

Maryland Energy Administration, Tips for Offices  
[www.energy.state.md.us/energytipsforoffices.asp](http://www.energy.state.md.us/energytipsforoffices.asp)

Tax Incentives Assistance Project (TIAP)  
[www.energytaxincentives.org](http://www.energytaxincentives.org)

LINKS TO  
TECHNICAL  
AND FUNDING  
ASSISTANCE

# ENHANCING DOWNTOWN WITH GREEN SPACES



**W**hile the built environment is the most prominent part of our downtowns, green space is a strong factor in making our communities more livable, inviting, and aesthetically pleasing. Parks and public open spaces bring the community together and give us a place to relax or play on a nice day. Public parks are important community assets, but they aren't the only kind of space that can help to green the downtown. In the more constrained Main Street or downtown environment, an emphasis should also be placed on smaller-scale opportunities to add greenery.

## COMMUNITY GREEN SPACES

Green space can come in many forms in the downtown, ranging from small container gardens to larger community gardens and pocket parks (see page 14). Community gardens are public green spaces that offer residents the opportunity to plant their own fruits and vegetables. Pocket Parks are small parks accessible to the general public, and are generally created on small, irregular pieces of land or single vacant building lots. Some important considerations for successful green spaces include:

**Location:** Green spaces should occupy locations that will benefit from pedestrian traffic, while complementing adjacent businesses.

**Costs:** Major costs can include removal of existing hardscape and plantings, design costs, new hardscape and plantings, municipal services for the site, and new site amenities.

**Safety:** Well-designed and well-lit public open spaces can help to deter crime and increase public safety. Public open spaces should not have any hidden or permanently dark areas.

**Maintenance:** Once opened for public use, open space must be properly cared for, whether by local government or community volunteers. Without routine maintenance, an open space can quickly become an unused blight in the community.

**Light and Shade:** Having too much sun or too much shade can both make open space undesirable for use. Shade and sun should be balanced through the use of trees and building shadows.



A community green space in downtown Elkton.

Sam Kittner Photographer

LINKS TO  
TECHNICAL  
AND FUNDING  
ASSISTANCE

Maryland Community Crime Prevention Institute  
[www.dpscs.state.md.us/aboutdpscs/pct/ccpi](http://www.dpscs.state.md.us/aboutdpscs/pct/ccpi)

University of Maryland Home and Garden Information Center  
[www.hgic.umd.edu](http://www.hgic.umd.edu)

USDA Community Food Project Grant Information  
[www.csrees.usda.gov/fo/communityfoodprojects.cfm](http://www.csrees.usda.gov/fo/communityfoodprojects.cfm)



## TREES TO ENERGIZE THE DOWNTOWN

A tree-lined Main Street will create a pedestrian friendly and welcoming environment that can become an extension of community pride and spirit. Healthy street trees and plantings add aesthetic appeal and natural character to the downtown. They screen harsh scenery, provide privacy, and improve air and water quality. The State of Maryland is working in partnership with businesses, communities, and citizens to plant 1 million new trees by 2011 ([www.trees.maryland.gov](http://www.trees.maryland.gov)).

According to the National Arbor Day Foundation and the US Department of Agriculture, street trees can also contribute to the overall economic and social vitality of a community. To realize these benefits, the community must choose the right planting, and must commit to proper maintenance. Important maintenance considerations include:

**Maintenance:** Newly installed street trees are typically maintained by the landscape contractor for the first year. After that, the tree needs help from community-based volunteer groups, or individual business owners taking responsibility for mulching and watering the trees outside of their stores.

**Watering:** Plants receive much of their water from rainfall, but in the summer or during droughts, an external water source maybe required. Using water from roof drains collected in rain barrels can be a relatively low-cost solution, particularly in areas where public water supplies are limited. (See page 16 for more details on rain barrels).

**Drainage:** One of the biggest causes for decline of trees and other vegetation is “drowning” due to improper drainage. Design of drainage systems for tree pits/planters should address this problem.



Sam Kittner Photographer

**Fertilizing:** Fertilize after a soil test has been conducted, based on the soil analysis recommendations. Over-fertilizing can hurt the tree, degrade water quality, and waste money. Go to [www.hgic.umd.edu/content/documents/hg110\\_005.pdf](http://www.hgic.umd.edu/content/documents/hg110_005.pdf) for more information.

**Pruning:** In business districts, pruning the lower branches from the trees instead of pruning from the top down, or “topping off” a tree, is often preferred, since this encourages growth at a higher elevation and enhances the visibility of storefronts. Careful consideration of planting location and typical tree height can avoid future conflicts with overhead utilities. Tree removal, pruning, care, and/or planting of trees within the public right-of-way require a Roadside Tree Law Permit. See [www.dnr.state.md.us/download/rsregs.pdf](http://www.dnr.state.md.us/download/rsregs.pdf) for more information.

Pruning away the lower branches of trees promotes visibility of storefronts while also providing shade and comfort.

### Starter List of Recommended Street Trees in Maryland

Common Name	(Botanical name)
<b>Native to Maryland</b>	
Oak—various species	( <i>Quercus</i> sp.)
American Elm	( <i>Ulmus americana</i> )
<b>Compatible non-native</b>	
Honey Locust	( <i>Gleditsia triacanthos</i> )
London Plane tree	( <i>Platanus acerifolia</i> )
Japanese Zelkova	( <i>Zelkova serrata</i> )
Littleleaf Linden	( <i>Tilia cordata</i> )

Oak, locust, and elm trees are native to Maryland (native American Elms were all but wiped out by Dutch Elm Disease, but disease-resistant varieties are available). Other species listed above are not native, but are relatively common, and are generally appropriate for the climates in Maryland’s downtowns. Overall, the trees listed above are hardy, require little maintenance, and are complementary to nearby native species and plant communities. All are listed on the State’s Roadside Recommended Tree List [www.dnr.state.md.us/forests/download/Recommended%20Tree%20List.pdf](http://www.dnr.state.md.us/forests/download/Recommended%20Tree%20List.pdf) and trees are available for purchase from the online Nursery.



Courtesy of ERM.

Tree-Mendous Maryland Program in Baltimore County  
[www.baltimorecountymd.gov/Agencies/environment/education/ep\\_needtrees.html](http://www.baltimorecountymd.gov/Agencies/environment/education/ep_needtrees.html)  
 Maryland Urban Forest Committee Tree Planting Grant Application  
[www.dnr.state.md.us/forests/programs/urban/grantapp.pdf](http://www.dnr.state.md.us/forests/programs/urban/grantapp.pdf)  
 US Forest Service Urban and Community Forestry Challenge Cost Share Grant Program  
[www.fs.fed.us/ucf/nucfac](http://www.fs.fed.us/ucf/nucfac)

LINKS TO  
 TECHNICAL  
 AND FUNDING  
 ASSISTANCE

## Green Communities in Action: Frostburg and Oakland in Bloom

Frostburg First, the Foundation for Frostburg, and Frostburg's House and Garden Club are using Main Street Improvement Program funds for a beautification program on Main Street. One aspect of the beautification program is the repair and refurbishing of Frostburg's signature lampposts, which include garden baskets about midway on each post. In Oakland, garden baskets adorn parking meters and welcome visitors to downtown. Whether hung on lampposts and parking meters, or grown in containers at a store's entrance, garden baskets and other touches of green enhance the downtown and promote community pride.



## GREEN TOOLKIT: POCKET PARKS

Pocket parks provide a splash of greenery, a place to sit outdoors and socialize with neighbors, and children's play areas for local families and visitors. Because they're small, these parks can fit in a busy downtown. To establish a pocket park, consider these steps, as recommended by Keep Indiana Beautiful (*see link below*):

- Pick a site that is available and can be maintained.
- Secure the community's commitment.
- Plan your park, including site layout, funding, and maintenance.
- Identify partners to provide funds, labor, and materials.
- Convene a steering committee to guide the project.
- Secure funding (short-term for construction, and long-term for maintenance)
- Hold a community kickoff event to begin work on the park.
- Implement a maintenance plan.
- Stay involved with partners and community members to ensure long-term success.

## GREEN TOOLKIT: CONTAINER GARDENS

Container gardens, as well as window box planters or small garden plots in front of individual businesses and residences can add green to the downtown without major costs to the property owner or the community. For restaurants, a vegetable garden, either in a container or on the ground, can also provide an inexpensive, local source of food.

Container Gardening Associated ([www.container-gardens.com](http://www.container-gardens.com)) suggests the following steps to a successful garden:

- Decide how much space you want your garden to use, and where that space is.
- Decide what you want to grow (i.e., flowers or vegetables), taking into account the availability of sunlight and shade. Use locally grown plants wherever possible.
- Select containers to match your space and plant needs, and choose locally-produced baskets or containers if they are available.
- Choose a garden soil mixture that is best for your plants.
- Don't forget about making your garden look good with decorative planters and other accessories.
- Don't have a green thumb? Your local garden club can also be a great resource.



Container gardening  
in Oakland.

## LINKS TO TECHNICAL AND FUNDING ASSISTANCE

Guide to Container Gardening

[www.gardenguides.com/how-to/tipstechniques/containerindoor/container.asp](http://www.gardenguides.com/how-to/tipstechniques/containerindoor/container.asp)

Starting a Community Garden

[www.communitygarden.org/learn/starting-a-community-garden.php](http://www.communitygarden.org/learn/starting-a-community-garden.php)

Keep Indianapolis Beautiful (Pocket Parks)

[www.kibi.org/programs/greenspace/how\\_to\\_guide\\_greenspace\\_pocket\\_parks.htm](http://www.kibi.org/programs/greenspace/how_to_guide_greenspace_pocket_parks.htm)



# STORMWATER

## *Slow it Down, Spread it Out, Soak it In*

A sustainable community uses its water resources wisely, conserving valuable drinking water, and reducing pollution. Managing stormwater runoff is an ongoing issue in Maryland's downtowns. Stormwater contributes large amounts of pollution to local streams, rivers, and eventually the Chesapeake Bay. Fast-moving stormwater erodes stream banks, degrading natural habitats, harming fish, and threatening public water supplies.

Stormwater flows increase as natural forests and fields are replaced with impervious surfaces such as roofs, parking lots, driveways, and roads, which do not allow rainwater to filter into the ground. However, this runoff can be managed—even in urban environments—in a way that reduces pollutants and protects rivers and streams. Maryland's Stormwater Management Regulations are available online: [www.mde.state.md.us/assets/document/26.17.02.%202009.pdf](http://www.mde.state.md.us/assets/document/26.17.02.%202009.pdf).

### **SLOW IT DOWN: STORMWATER REGULATIONS AND RETROFITS**

Slowing the movement of stormwater reduces stream bank erosion and increases opportunities for on-site filtration and purification of stormwater. Maryland's newest stormwater regulations require that new construction manage stormwater through Environmental Site Design (ESD). In already-built areas, ESD stormwater retrofits can also reduce stormwater pollution. ESD is a menu of structural (physical construction) and nonstructural (landscaping, vegetation, and placement of buildings on the site) techniques to reduce the amount, speed, and pollutant content of stormwater that reaches streams.

Runoff can be slowed by using vegetation in place of impervious surfaces to slow the movement of water. "Micro-scale practices," such as green roofs, pervious pavement, and rain gardens are more compatible with downtowns than other land consumptive ESD techniques. Rain gardens—sometimes referred to as infiltration areas—are planted areas that capture stormwater runoff, allowing water to infiltrate into the soil, rather than running directly into nearby streams. New construction typically pays for stormwater management associated with the development project. The cost of stormwater retrofits—redesigning stormwater systems to fit into Main Street's existing character—is typically undertaken by the local jurisdiction (*see page 16 for funding suggestions*).



Rain gardens such as this one at the Centreville Library trap runoff and allow it to infiltrate.

### **Green Communities in Action: Rain Gardens and Rain Barrels**

Friends of Sligo Creek (FOSC) is a community group in Montgomery and Prince George's Counties that works to restore the health and vitality of Sligo Creek, a tributary of the Anacostia River. Among other efforts, they hold clean-up and clear-out events in the park, offer indoor programs for learning, and organize guided outdoor explorations.

FOSC has worked cooperatively with many communities. In Berwyn Heights, FOSC was part of a rain garden workshop that facilitated the installation of a rain barrel and two rain gardens at the Town Hall parking lot. In Takoma Park, FOSC worked with the City to install rain gardens at Forest Park in downtown. In Silver Spring, they worked with the Forest Estates Civic Association to help several homeowners build rain gardens in their yards. In return, the homeowners agreed to maintain the rain gardens and to use them to encourage their neighbors to install rain gardens and rain barrels. The FOSC rain gardens are also intended to educate the community at large about the problems of stormwater runoff and about simple solutions to the problem.



Pervious pavers can reduce impervious surface in developed areas.

US EPA "Reduce Runoff" Video

[www.epa.gov/owow/nps/lid/video.html](http://www.epa.gov/owow/nps/lid/video.html)

Prince George's County Rain Garden Guide

[www.princegeorgescountymd.gov/Government/AgencyIndex/DER/ESG/pdf/Garden.pdf](http://www.princegeorgescountymd.gov/Government/AgencyIndex/DER/ESG/pdf/Garden.pdf)

Natural Resources Defense Council – Information on Stormwater Utilities

[www.nrdc.org/water/pollution/storm/chap4.asp](http://www.nrdc.org/water/pollution/storm/chap4.asp)

LINKS TO  
TECHNICAL  
AND FUNDING  
ASSISTANCE



## Stormwater Management Funding

- Many community organizations will provide rain barrels and assistance at low or no cost.
- A stormwater management (SWM) utility fee or district can raise funds to pay for the operations, maintenance, and capital improvements of public SWM and stream restoration projects.
- Developer impact fees can be tied to the amount of impervious cover on a site.
- State and federal grants, loans, and fees, such as Maryland Department of the Environment's Water Quality Infrastructure Program. These can cover the costs of SWM structures and reduce erosion and sedimentation from new construction.

## SPREAD IT OUT: REDUCING STORMWATER VOLUMES

Stormwater management should aim to reduce the volume of runoff by evaporation, infiltration, and retention methods. Infiltration systems recharge groundwater, filter pollutants out of stormwater, and irrigate plants. Retention systems slow or eliminate the release of stormwater from a site.

### WHAT LOCAL GOVERNMENT AND COMMUNITY GROUPS CAN DO

- Encourage local and State governments to identify the downtown's biggest stormwater "hot spots," and to fund and install stormwater retrofits to address these problems.
- Install plates or use stencils with the message "Don't Dump, Drains to Bay" or "Don't Dump, Drains to River" on storm drains, to discourage dumping of antifreeze, oil, or other harmful materials. Visit [www.dnr.state.md.us/education/are/stencil.pdf](http://www.dnr.state.md.us/education/are/stencil.pdf) to order a stencil kit.

### WHAT BUSINESSES AND RESIDENTS CAN DO

- Install a rain barrel to harvest rainwater from downspouts. Rain barrels are simple, inexpensive systems that collect and store rainwater from roofs that would otherwise become runoff. [www.dnr.state.md.us/ed/rainbarrel.html](http://www.dnr.state.md.us/ed/rainbarrel.html).
- Plant a rain garden on your property (businesses and residents) or in public open space (government and community groups). [www.montgomerycountymd.gov/Content/DEP/Rainscapes/garden.htm](http://www.montgomerycountymd.gov/Content/DEP/Rainscapes/garden.htm).
- Keep your property litter-free: litter clogs drains and ends up as pollution in our waterways. Local government and community groups can also buy street sweeper machines or hire sweeping services.



## SOAK IT IN: REDUCING IMPERVIOUS SURFACE

According to the US Environmental Protection Agency, water quality in streams tends to decline as watersheds approach ten percent impervious coverage.<sup>5</sup> Most downtowns exceed this threshold, so it is important to find ways to reduce impervious surface. Some techniques that can be implemented include:

- Installing rain gardens, particularly along parking lots and roads, helps to collect rainwater before it becomes runoff.
- Container gardens, landscaped medians, and other elements of downtown green space (see pages 12-14) also help to collect stormwater.
- Installation of pervious, or permeable, pavement. Pervious pavement is designed to allow the infiltration of stormwater through the surface into the soil below where the water is naturally filtered and pollutants are removed. In contrast normal pavement is an impervious surface that sheds rainfall and associated surface pollutants forcing the water to run off paved surfaces directly into nearby storm drains and then into streams and lakes. <http://www.perviouspavement.org>

Stormwater from parking lots, roofs, and other impervious surface carries pollutants to the Chesapeake Bay and its tributaries.



Rain barrels can collect and save rooftop runoff.

## LINKS TO TECHNICAL AND FUNDING ASSISTANCE

Maryland Local Government Infrastructure Finance Program  
[www.neighborhoodrevitalization.org/Programs/LGIF/LGIF.aspx](http://www.neighborhoodrevitalization.org/Programs/LGIF/LGIF.aspx)

Maryland Department of the Environment Stormwater Retrofit Funding  
[www.mde.state.md.us/Programs/WaterPrograms/WQIP/wqip\\_stormwater.asp](http://www.mde.state.md.us/Programs/WaterPrograms/WQIP/wqip_stormwater.asp)

Maryland Department of the Environment Nonpoint Source Grants – Federal 319(h) Program  
[www.mde.state.md.us/Programs/WaterPrograms/319NPS/factsheet.asp](http://www.mde.state.md.us/Programs/WaterPrograms/319NPS/factsheet.asp)

# SUSTAINABLE TRANSPORTATION

## *Linking it All Together*

Transportation is a vital necessity for the economic health of Maryland's communities and business districts, and can be catalysts for revitalization. One component of a sustainable downtown is the availability of transportation alternatives. A walkable and bicycle-friendly community provides residents and visitors with safe and healthy alternatives to driving. Creating a balanced transportation system that responds to the needs of drivers, transit riders, pedestrians, and bicyclists, can make the community a more livable, vibrant, and social place to live and visit.

Sustainable transportation means reducing automobile vehicle miles traveled (VMT) by choosing other modes, such as walking, bicycling, car pooling, and mass transit. This helps to reduce traffic congestion, pollution, lower road maintenance costs, and improve safety. Encouraging walking throughout the downtown not only improves individual and public health, but can also improve the downtown's economic health, by encouraging more pedestrian traffic—and potential customers—to pass in front of downtown stores.

## CREATING WALKABLE COMMUNITIES

A walkable community is one that is easily navigated on foot and one that accommodates bicycle travel, too. However, walkability is about more than roads, bike lanes, and sidewalks; a walkable community is one whose businesses, homes, public spaces, and infrastructure all contribute to non-motorized travel. Town centers with diverse retail, commercial, and housing opportunities, safe and appealing public spaces, and interconnected streets and sidewalks all help to encourage walking.

Making Main Street more walkable can require major infrastructure changes, such as the Bel Air Streetscape project described on this page. Such initiatives are best implemented at the municipal or county level. However, individual business owners, employees, and residents can also have an impact. For example, installing bicycle racks in front of businesses can remove one of the major barriers to increased bicycle use. Assisting downtown businesses in creating carpools can reduce the number of cars on the road and make the downtown more pedestrian and bicycle-friendly. Organizations such as BikeWalk and Walkable Communities, Inc. offer walkability audits for communities and workshops to find practical solutions to transportation issues.



The streetscape project for Main Street in Bel Air accommodates vehicles and parking while upgrading sidewalks and street crossings for pedestrians.

Photo credit: The Town of Bel Air

## Green Communities in Action: Bel Air Main Street Improvements

Bel Air's half-mile long Main Street is the heart of downtown. Its businesses, restaurants, and shops are popular destinations and generate considerable pedestrian traffic. In 2007, the Maryland State Highway Administration began work to enhance Main Street's streetscape. The goal was to accommodate high traffic volumes while improving pedestrian safety and complying with requirements of the Americans with Disabilities Act. Improvements included:

- Better definition of on-street parking areas;
- Geometric changes to enhance road safety;
- Installation of brick sidewalks;
- Installation of a pedestrian island in the middle of Main Street; and
- Installation of amenities such as street trees, furniture, and pedestrian-scale lighting.

The Streetscape project was completed in September 2008; a milestone that the Town celebrated with a daylong celebration entitled "The Main Event."

For more information on the Maryland State Highway Administration's Transportation Enhancement Program visit: [www.sha.state.md.us/ImprovingOurCommunity/OPPE/tep.asp](http://www.sha.state.md.us/ImprovingOurCommunity/OPPE/tep.asp)

Walkability Checklist

[www.walkinginfo.org/library/details.cfm?id=12](http://www.walkinginfo.org/library/details.cfm?id=12)

Bikeability Checklist

[www.bicyclinginfo.org/library/details.cfm?id=3](http://www.bicyclinginfo.org/library/details.cfm?id=3)

Walkability Audit (Walkable Communities, Inc.)

[www.walkable.org/services.html](http://www.walkable.org/services.html)

LINKS TO  
TECHNICAL  
AND FUNDING  
ASSISTANCE

## Green Development Codes: *Bicycle Parking*

A simple way to encourage bicycling is to require bicycle parking facilities. When developing a code for bicycle parking, requirements and standards to consider include:

- The creation of a certain number of bicycle parking spaces when off-street automobile parking is developed;
- The development of storage and locking facilities for bicycles;
- Design consistency and incorporation between bicycle parking facilities and the surrounding buildings and streetscape; and
- Placement of bicycle parking in safe, convenient locations that do not inhibit pedestrian or vehicular movements.

Section 164-39.5.P of the City of Westminster's zoning code contains several bicycle provisions. The code can be found at [www.ecode360.com/?custId=WE0761](http://www.ecode360.com/?custId=WE0761).

## HOW TO DIVERSIFY YOUR TRANSPORTATION SYSTEM

The successful “greening” of a transportation system will involve many different parties, including neighborhood associations, civic organizations, the local transportation department, representatives from the county, Maryland Department of Transportation, and regional transportation/transit organizations, and local bike and pedestrian advocacy groups. However, there are many barriers to retrofitting the transportation system in existing downtowns, such as:

- Discontinuous or poorly maintained sidewalks and paths;
- A limited public transportation network; and
- A lack of bicycle lanes and parking (racks).

These barriers can be overcome with community-wide support, investment, and creative thinking. Investing in continuous, properly maintained sidewalks and bicycle facilities (including bike lanes, multi-use paths, and bicycle parking racks) will enable people to walk or bike to their destination, rather than drive. The development of carpooling and park-and-ride programs reduce miles driven daily to and from work. Creative parking pricing programs and accompanying public information encourage people to park the car once and run errands on foot, rather than driving from stop to stop.

Transportation initiatives often require substantial funding. Some potential funding sources include:

- Maryland State Highway Administration Transportation Enhancement Program Grants;
- Local funding initiatives such as impact fees and/or excise taxes (these require express approval from the Maryland General Assembly); and
- Other techniques, such as Tax Increment Financing (TIF).



*Photo credit: of ERM*

Installing bicycle racks is an easy way to encourage a pedestrian- and bicycle-friendly downtown.



Specially-designed bicycle racks can also help enhance the downtown's image.

## LINKS TO TECHNICAL AND FUNDING ASSISTANCE

Maryland Bicycle and Pedestrian Advisory Committee (MBPAC)

[www.mdot.state.md.us/Planning/Bicycle/MBPAC.html](http://www.mdot.state.md.us/Planning/Bicycle/MBPAC.html)

Montgomery County's "Renew Montgomery" Program

[www.montgomerycountymd.gov/dirtmpl.asp?url=/Content/DPWT/Dir/renew\\_mont.asp](http://www.montgomerycountymd.gov/dirtmpl.asp?url=/Content/DPWT/Dir/renew_mont.asp)



## PARKING MANAGEMENT

Parking is a valuable and important piece of a successful downtown's transportation infrastructure. Properly managed parking can attract visitors and community residents to the downtown, and can even alleviate some traffic congestion and air pollution problems. Centrally located public garages and parking lots can encourage visitors and employees to park once, keeping Main Street's focus on pedestrians. When evaluating the community's parking supply, pay particular attention to these factors:

**Design:** A community's historic character and resources should be considered when developing downtown parking solutions. Parking structures should be integrated with their surroundings particularly through scale, materials, colors and style and relate to the design of adjacent buildings.

**Location and Signage:** A convenient and well-signed location reduces congestion and gets would-be customers to their destination more quickly. Proper signage can quickly direct visitors to existing parking supplies, increasing the amount of time that visitors can spend in the downtown and out of their automobiles.

**Pollution:** More paved area means more pollution going into our waterways. Ensure that development regulations permit shared parking facilities to reduce the amount of paved area needed to accommodate parking demand throughout the day.

**Walkability:** Pedestrian links between the parking lot or garage and the downtown business district should be designed to the same high standard as the Main Street itself, emphasizing pedestrian safety, and encouraging visitors to "park once and walk." Treatments such as lighting, plantings or brick pavers will define walking areas and make them more inviting.

**Pricing:** A number of pricing options exist to efficiently manage parking supplies and revenues without driving away potential customers.

- Set the operating hours and prices of on-street meters to correspond with parking demand. The highest prices should be charged during the highest demand periods.
- Vary pricing and length of stay according to the location of parking facilities. On-street meters should be the most expensive (per hour), and offer the shortest stays. Central garages or parking



Sam Kittner Photographer

In downtown Westminister, this parking garage is accessible, yet out of view, creating a more welcoming and pedestrian-friendly streetscape on the city's historic Main Street.

lots should be priced to encourage longer stays.

- Establish separate lots for downtown employees, so that "prime" parking spots are reserved for customers.

### Green Development Codes: Flexible Parking Requirements

Many zoning and subdivision ordinances contain a minimum parking requirement. The City of Cumberland's Zoning Ordinance includes provisions to reduce the required amount of parking, and to allow shared, or joint parking. Some things to consider include:

- Reducing the required number of parking spaces to be initially developed based on certain conditions;
- Allow for joint uses. For example, one parking area may contain required spaces for several different uses, and the same spaces may be credited to both uses; and
- Allow businesses to validate parking for customers.

See [www.ci.cumberland.md.us/new\\_site/index.php/contents/view/74](http://www.ci.cumberland.md.us/new_site/index.php/contents/view/74) for more information.

The City of Westminster offers a wide variety of public parking options, ranging from on-street metered parking on East Main Street to long-term lots and garages—all of which are identified by clear, consistent signage. Time limits and prices are based on location. The City offers discounted prices for monthly parking permits in parking lots that are farther away from East Main Street, and even deeper discounts for bulk permit purchases. The City also has a graduated fine system for parking violations; the first violation is a warning, with escalating fees after that.

Parking Best Practices, Maryland Governor's Office of Smart Growth  
[www.smartgrowth.state.md.us/pdf/Final%20Parking%20Paper.pdf](http://www.smartgrowth.state.md.us/pdf/Final%20Parking%20Paper.pdf)

Local Government Infrastructure Finance Program  
[www.neighborhoodrevitalization.org/Programs/LGIF/LGIF.aspx](http://www.neighborhoodrevitalization.org/Programs/LGIF/LGIF.aspx)

LINKS TO  
TECHNICAL  
AND FUNDING  
ASSISTANCE

# RALLY 'ROUND THE DOWNTOWN



The successful greening of Main Street depends on getting people involved and showing them that they can make a difference. Informed, motivated, and dedicated citizens and businesses are needed for a sustainable downtown, since engaged businesses and citizens are more likely to monitor and maintain improvements and new practices as well as bring new ideas to the table.

## GREEN COMMUNITY EVENTS

Holding a “green” community event is an excellent way to establish and maintain volunteer engagement. It also helps to promote the downtown, one of the Main Street program’s key tenets. The event should not only achieve an immediate goal (e.g., street cleanup, tree plantings), but should also help to instill a lasting “sustainability ethic” in the downtown.

### SOME KEYS TO SUCCESS FOR GREEN EVENTS INCLUDE:

**Publicity:** Early and repeated stories in print and broadcast media. If possible, include media outlets as active partners in the event.

**Partners:** Recruiting partners helps to spread the load of event planning and execution. Businesses can provide donations, post flyers, and spread information through word-of-mouth, which is often the most effective way to publicize an event. Schools are often good partners, especially if the event has an educational component. Downtown residents and community groups should also be included.

**Participants:** Your event partners should be the primary source of volunteer participants, and representatives from those partners can do some of the recruiting for you.

**Support:** Monetary support is important, but in-kind support—donations of food or materials in exchange for publicity—can be just as helpful.

**Recognition:** Provide a “thank-you” gift for participants, to encourage continued engagement. Even simple items like t-shirts or free food are effective.

### START SMALL

While major events can bring publicity and excitement to Main Street, smaller scale community-building activities should also be part of the greening of downtown. Some ideas for these activities include:

- Reclaim low-traffic streets or parking lots for pedestrian traffic or green space;
- Host an awards ceremony (plant a tree) for Main Street’s “greenest” citizens or businesses;
- Form local groups such as carpool co-operatives, bike or walk to work/school groups. This can also help to reduce vehicle traffic from downtown employees; and
- Discuss the “green downtown” at local schools, and help teachers develop “green” curriculum as part of the State’s Green Schools initiative.



## LINKS TO TECHNICAL AND FUNDING ASSISTANCE

Community Organizing Toolbox  
[www.nfg.org/cotb](http://www.nfg.org/cotb)

The Citizens Handbook  
[www.vcn.bc.ca/citizens-handbook](http://www.vcn.bc.ca/citizens-handbook)

Maryland Department of Natural Resources Green Schools Initiative  
[www.dnr.state.md.us/education/greenschools.html](http://www.dnr.state.md.us/education/greenschools.html)

## KEEP IT CLEAN TO KEEP IT GREEN

Beautiful downtowns attract shoppers, tourists, and new businesses and are better places to live, work, and play. Keeping Main Street litter-free not only enhances its image and economic vitality, it's also a green practice. Litter on the streets ends up as pollution in our waterways.

Clean-up events (see below) and street sweeping can be important parts of the downtown's beautification efforts. However, working with the community to prevent litter is an inexpensive and necessary step:

- Encourage employees to pick up trash anywhere in or around their place of business, creating an ethic to not walk past litter;
- Establish smoking areas with appropriate ash receptacles for employees and customers. Cigarettes are the most commonly littered item in the United States;
- Place an adequate number of trash containers (with covers) in parking lots, at building entrances, and in strategic locations on the street. Make sure trash collection is scheduled to avoid unsightly "overflows;"
- Discourage business and homeowners from raking leaves and yard clippings into the street;
- Partner with the local government to start a "Clean, Safe, and Green" program; and
- Display 'No Littering' signs downtown.



Sam Kittner Photographer

Small beautification efforts (left) and large events like a Team Dundalk cleanup (below) help to make downtown cleaner and greener.



### Green Communities in Action: Team Dundalk

As part of Main Street Maryland's Clean, Safe and Green initiative, the Dundalk Renaissance Corporation (DRC) created "Team Dundalk", a volunteer group that helps to make the downtown greener and more sustainable. From high school students to senior citizens, the DRC has attracted a large and diverse group of volunteers to help enhance the downtown and surrounding areas. More than 400 people participated in volunteer activities and events in 2007 alone.

The DRC hosts five to seven clean-ups a year on Saturday mornings. Volunteers receive free t-shirts and free food (provided by the local Chick-Fil-A franchise), and a local waste disposal company provides free removal of garbage collected during the cleanup. Because of volunteer participation and the involvement of local businesses, project costs are minimal.

See [www.dundalkusa.org](http://www.dundalkusa.org).

Cigarette Ash Receptacles  
[www.preventcigarettelitter.org/how\\_you\\_do\\_it/AshReceptacles\\_brochure.pdf](http://www.preventcigarettelitter.org/how_you_do_it/AshReceptacles_brochure.pdf)  
Street Sweeping Technology and Costs  
[www.stormwatercenter.net/Pollution\\_Prevention\\_Factsheets/ParkingLotandStreetCleaning.htm](http://www.stormwatercenter.net/Pollution_Prevention_Factsheets/ParkingLotandStreetCleaning.htm)  
Montgomery County Residential Street Sweeping Program  
[www.montgomerycountymd.gov/hwytmpl.asp?url=/content/dot/highway/sweeping.asp](http://www.montgomerycountymd.gov/hwytmpl.asp?url=/content/dot/highway/sweeping.asp)

LINKS TO  
TECHNICAL  
AND FUNDING  
ASSISTANCE



## Green Communities in Action: *Green is Fun!*

Making your downtown more sustainable can be hard work, but don't forget to have some fun, too! Green Drinks International is a social forum for business owners and residents interested in sustainability. Events are often hosted by a local business that supports the community's sustainability efforts.

There are Green Drinks chapters in Annapolis, Baltimore, Bethesda, Chestertown, Delmarva, Easton, Gaithersburg, and Hagerstown, as well as more than 400 other cities across the globe. Green Drinks events provide opportunities to share ideas about how to make downtown and the surrounding community more environmentally responsible ([www.greendrinks.org](http://www.greendrinks.org)).

Green Caffeine, started in Annapolis, is another opportunity for green-minded people to socialize and network during the daytime, over coffee. Annapolis Green is also working on various projects, including how to form a virtual eco-community ([www.annapolisgreen.com](http://www.annapolisgreen.com)).



Photo credit: Annapolis Green

An Annapolis Green Drinks event held at the Annapolis Maritime Museum.

## THINK GLOBALLY, BUY LOCALLY

Greening our downtowns means making the best use of the resources in our own backyards. Purchasing food, goods, and services from local businesses and suppliers:

**Is environmentally friendly:** Independent businesses often make purchases requiring less transportation and usually set up shop in commercial corridors and in-town instead of developing on the fringe. They support their local suppliers, craftsmen and farmers.

**Strengthens the social and economic fabric of your communities:** For every \$100 spent at a locally owned business, \$45 goes back to the community; whereas, the community sees only \$14 if same \$100 is spent at a chain store.

**Maintains authenticity:** Supporting one-of-a-kind businesses is important to maintaining the unique character of Maryland communities as well as the economic health of family-owned enterprises.

**Is healthier and tastier!:** Locally produced agricultural products require less time and fewer preservatives to reach market and lose fewer nutrients on the way to market.

**Puts taxes to good use:** Local businesses in neighborhoods need comparatively less infrastructure investment and make more efficient use of public services as compared to nationally owned stores entering the community.

**Preserves farmland:** Buying local downtown supports local farm families and preserves the rural character and beauty of the greater community.



Buying local supports independent business owners who live in the community and are committed to investing in its future

## LINKS TO TECHNICAL AND FUNDING ASSISTANCE

Buy Local Baltimore

[www.buylocalbaltimore.com](http://www.buylocalbaltimore.com)

Maryland Agriculture Exchange

[www.agtrader.org](http://www.agtrader.org)

Buy Fresh Buy Local, Informational Tools

[www.foodroutes.org/tools.jsp](http://www.foodroutes.org/tools.jsp)

## GREEN TOOLKIT: MAKING “BUY LOCAL” AN EVERYDAY EVENT

In Maryland, there are many opportunities to buy local. Many of the State’s 90 public farmers markets are on or near Main Street. Many grocery stores and specialty shops are increasingly buying from local suppliers.

- If the downtown does not already host a farmer’s market, work with the Maryland Department of Agriculture and local growers to create or move one to Main Street;
- Promote local products and businesses at farmer’s markets and other local events;
- Create a list, map, and/or website of local businesses that customers can use. Make this directory available in public places throughout your community;
- Organize a Buy Local Day in your community and participate in the State’s annual Buy Local Week Challenge;
- Tie “local” to “green” in your marketing materials. Develop a logo or catchphrase that the local business community can use to keep the “buy local” idea in customers’ minds, and distribute stickers to merchants to place on windows or doors;
- Designate a site for a weekly outdoor market that brings local businesses together in one convenient venue; and
- Participate in the State’s Farm to School program, which encourages the use of locally-grown products in school lunches.



Photo credit: Molly Balint, [www.belairfarmersmarket.com](http://www.belairfarmersmarket.com).

Hosting a farmer’s market is an excellent way to buy local while also creating activity downtown.



Sam Kittner Photographer

Restaurants can support “buy local” efforts by switching to local produce.

### Green Communities in Action: Chestertown

Chestertown has made a number of efforts to go green, and can attribute their success to the comprehensive, community-wide approach they have taken. Some of their efforts to date include:

- The Mayor’s weekly radio show, which highlights ways to Be Green;
- Neighbors to Neighborhoods, a volunteer group helping to find recycling and stormwater management solutions;
- Washington College in Chestertown has started a “George Goes Green” project to encourage campus-wide sustainability;
- The Green Initiative Committee conducted a recycling survey of local restaurants and posted a list of all Green products available for sale in Chestertown on the Town’s web site;
- A quarterly visit from a Town-sponsored shredding truck allows people to shred and recycle their documents instead of throwing them in the trash;
- Frequent Town-sponsored events at the Town Hall, such as a discussion of “Affordable Solar Energy for the Home;” and
- The Chestertown website, hosted by Washington College displays all of the Town’s Green efforts: [chestertowngoesgreen.washcoll.edu](http://chestertowngoesgreen.washcoll.edu)

Maryland Department of Agriculture Local Products  
[www.marylandsbest.net](http://www.marylandsbest.net)

Maryland Department of Agriculture, Farm to School  
[www.marylandfarmtoschool.org](http://www.marylandfarmtoschool.org)

Maryland Farmers’ Market Directory  
[www.mda.state.md.us/md\\_products/farmers\\_market\\_dir.php](http://www.mda.state.md.us/md_products/farmers_market_dir.php)

LINKS TO  
TECHNICAL  
AND FUNDING  
ASSISTANCE

# READY, SET, GREEN!

## For More Information:

The Maryland Department of Housing and Community Development and the Maryland Department of Natural Resources are partnering on the Going Green Downtown effort. For more information on this program or related activities, please contact the Going Green Downtown Project Team:

### Maryland Department of Housing and Community Development

#### Main Street Maryland Program

Amy Seitz, Director  
Community Access and Partnership  
seitz@mdhousing.org  
410-209-5800  
[www.neighborhoodrevitalization.org/  
Programs/MainStreet/MainStreet.aspx](http://www.neighborhoodrevitalization.org/Programs/MainStreet/MainStreet.aspx)

### Maryland Department of Natural Resources

#### Coastal Training Program

Sasha Land  
Program Coordinator  
sland@dnr.state.md.us  
410-260-8718  
[www.dnr.state.md.us/bay/cbnerr/  
ctraining.asp](http://www.dnr.state.md.us/bay/cbnerr/ctraining.asp)

**Organize:** Put together a “green team” for your Main Street, including business owners, residents, and local officials. This team should exist to coordinate green activities, recruit volunteers, and build and maintain momentum within the community. The Maryland Department of Natural Resources is also offering educational programs to help Main Street communities learn what it means to be green (*see the list of State contacts in the sidebar*).

**Recognize:** Many of your Main Street activities are already “green,” such as recycling, creative parking regulations, planting of street trees, or other initiatives. Make sure that the public knows about these successes, so you can build excitement. One of the biggest barriers to being green is unfamiliarity. If your Main Street has already started to “go green,” then you’ve already passed the first hurdle.

**Prioritize:** Now that you know what you’re already doing on Main Street, make a list of the activities that you would like to add to your green portfolio, and choose a few projects (or maybe just one) to focus on in the short term. Quick “wins” help to create momentum for future projects and initiatives. Although each Main Street is different, here are some specific ideas for quick success:

- Plant native vegetation in landscaping areas.
- Begin to plan and organize a green community event, such as a cleanup day.
- Install signage to direct visitors to available parking in and around the downtown.
- Revise your local development codes to allow clean and safe energy sources (solar, wind, geothermal), and to allow and encourage green roofs and LEED accreditation (or similar energy efficient building design techniques) for new construction and renovation.
- Replace missing or diseased street trees with native or compatible trees.
- Work with building owners to install rain barrels, to be used for watering of street trees and other plants.

**Network:** The Main Street Maryland network currently includes 23 communities. Each of these Main Streets has a different approach to going green. By networking with other Main Street managers, you can share ideas for green activities and initiatives.



Sam Kittner Photographer





Front and back cover photos, Sam Kittner Photographer

#### ENDNOTES

<sup>1</sup> According to a 2008 study by the CoStar Group, a commercial real estate information service. [greensource.construction.com/news/080508CoStar.asp](http://www.greensource.construction.com/news/080508CoStar.asp)

<sup>2</sup> For detailed references, see [www.seattle.gov/DPD/GreenBuilding/OurProgram/WhyBuildGreen/default.asp](http://www.seattle.gov/DPD/GreenBuilding/OurProgram/WhyBuildGreen/default.asp).

<sup>3</sup> Source: US Energy Administration, cited in The Abell Report, Vol. 22, Number 1, March 2009.

<sup>4</sup> Source: US Department of Energy. [http://apps1.eere.energy.gov/consumer/your\\_home/space\\_heating\\_cooling/index.cfm/mytopic=12720](http://apps1.eere.energy.gov/consumer/your_home/space_heating_cooling/index.cfm/mytopic=12720)

<sup>5</sup> Source: US EPA. [www.epa.gov/athens/research/impervious/](http://www.epa.gov/athens/research/impervious/)



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