

A Better Tomorrow,

SUSTAINABLE
JERSEY

One Community At A Time

• CERTIFIED •

Welcome to



SUSTAINABLE
WOODBIDGE





A Better Tomorrow, One Person at a Time

SUSTAINABLE JERSEY™ is a certification program for municipalities in New Jersey that want to go green, control costs and save money, and take steps to sustain their quality of life over the long term.

What does Sustainable Jersey mean to the Township of Woodbridge?

Municipalities are certified after completing 100 points from a list of actions.

Our goal is to achieve **400** points.

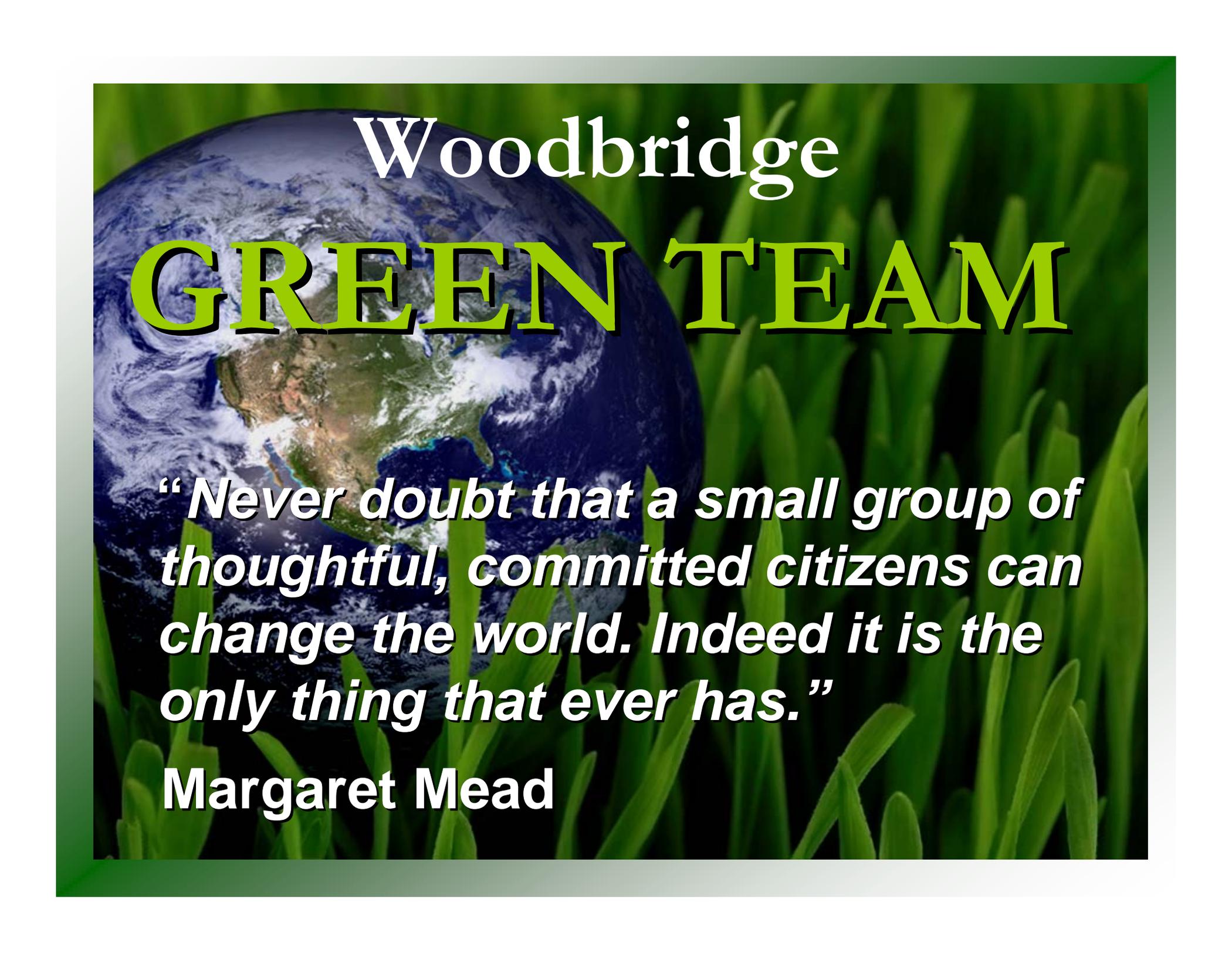
The list provides clear guidelines and tools to enable our township to become “certified” and be considered a leader sustainability.



Bayshore
Environmental
&
Energy Campus

www.BayshoreRecycling.com

© Dugas and Brower Architects, P.C. By Kimberly Soyak



Woodbridge
GREEN TEAM

“Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed it is the only thing that ever has.”

Margaret Mead



Members of the Green Team have been appointed by council resolution. Our Green Team members are made up of dynamic individuals representing Woodbridge and are important partners in our sustainability efforts. Our members include:

- **Mayor John McCormac and members of his staff and departments**
- **Elected Officials**
- **Volunteer members of community boards and commissions (Environmental Commission, Shade Tree, Economic Development)**
- **Health and Welfare Boards**
- **Planning and Zoning**
- **Board of Education as well as students from our local schools**
- **Local Businesses and chambers of commerce**
- **Academic institutions, civic organizations and faith-based groups**
- **Community residents**



GREEN TEAM GOALS

Green teams are the catalyst for creating an understanding of what sustainability means in our community.

- ☀ **Chair & Serve on Subcommittees**

- ☀ **Coordinate Events**

- ☀ **Develop Mission Statement &
10 Point Plan**

COMMUNITY

GREEN CHALLENGE

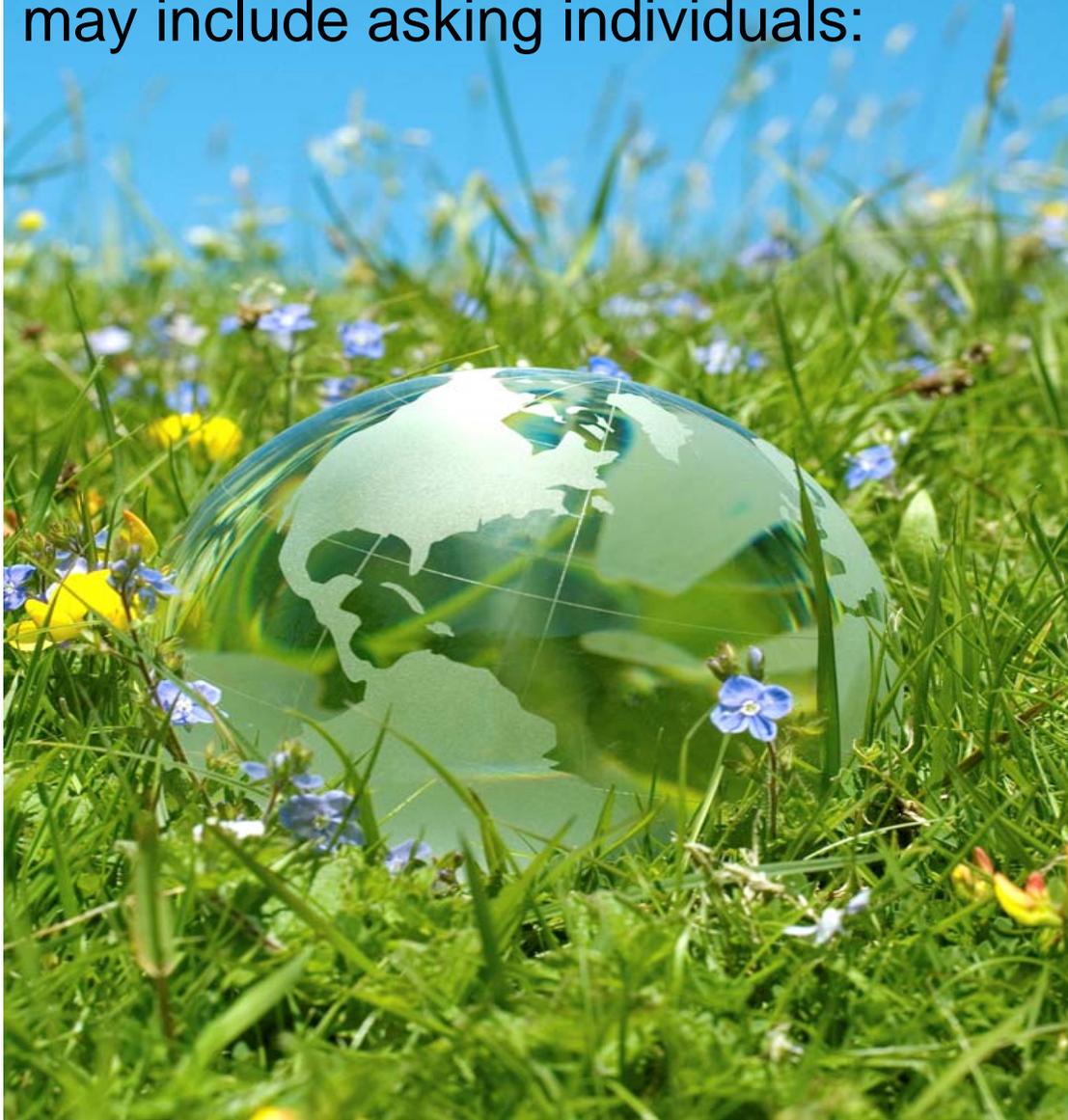


The image features a central text block surrounded by a large, stylized green circular arrow. At the bottom of the arrow, there are three green leaves with water droplets. To the right, a sunburst of yellow rays emanates from behind the arrow. The entire composition is set within a white rectangular area, which is itself enclosed by a thick green border.

**A Green Challenge
program is a strategy to
engage individual
residents and businesses
in a community effort
towards sustainability.**

Examples of **Green** Challenges

may include asking individuals:



- to change light bulbs to efficient models,
- to walk to the store once a week,
- to set the household thermostat down in the winter and up in the summer,
- to shop locally.

Green Challenges

engage residents to join in and achieve common community goals.

As individuals try to achieve their own goals, they play a key role in reaching community-wide goals.

Take the Green Challenge!

Your name _____ How many in your household _____
 Address _____ City _____
 Email _____ Phone _____

GREEN LEVEL — My household pledges to do 5 of the following:

- ___ Change our light bulbs to CFL or LED
- ___ Adjust thermostat to save energy
- ___ Reduce water heater temperature
- ___ Do laundry in cold water
- ___ Run dishwasher and clothes washer only when full
- ___ Turn off water when brushing teeth
- ___ Turn off lights when not in use
- ___ Turn off lights and computers when work day is over
- ___ Use ceramic (not paper or plastic) cups, utensils, plates
- ___ Use re-usable shopping bags
- ___ Use discarded paper for scrap paper
- ___ Walk or ride a bike instead of driving once a week
- ___ Shop locally to save auto fuel
- ___ Buy produce at a Farmers Market (*Woodbridge Market opens June 20!!*)
- ___ Participate actively in Township weekly home recycling pickup
- ___ Take large recyclable items to Township drop-off center
- ___ Stop car-idling; turn off engine when parked more than 30 seconds
- ___ Share sustainable living and energy saving ideas with family and friends

Every Day Steps YOU Can Take
to Help Make Our Community
Green, Greener and Greenest!

Please return this form
to Caroline Ehrlich at
Town Hall, 1 Main Street
Woodbridge, NJ 07095



GREENER LEVEL — My household pledges to do 8 actions from the list above and 2 from this group:

- ___ Plant a tree a year
- ___ Make a Rain Garden in our yard
- ___ Use organic fertilizer on our lawn
- ___ Use non-phosphate detergents
- ___ Stop using bottled water
- ___ Buy "Energy Star" appliances
- ___ Carpool to work
- ___ Add aerators to tap and shower heads to save water
- ___ Buy home furnishings made from sustainable/harvested wood products
- ___ Replace single-pane windows with energy efficient double-panes



GREENEST LEVEL — My household pledges to do 15 from the Green & Greener groups and 1 of these:

- ___ Drive a hybrid car
- ___ Drive no car at all



John E. McCormac, Mayor ♦ Woodbridge Township Environmental Commission



Community Education & Outreach

Community Education and Outreach is an essential element of any effort to make change.



It provides community members with an understanding of sustainability as it relates to their everyday lives and the choices they make can lead to a more sustainable future for themselves and their communities.

Through **Community Education & Outlook** communities can deliver educational programming through a variety of formats:

- **Community sponsored events and activities**
- **Green** Lecture series
- **Direct mailings to residents**
- **Special Green** addition of Woodbridge News
- **And...**

- **YMCA - Recreation Workshops on green gardening and green home improvements.**

- **Green demonstration as in the scheduled **Rutgers Rain Garden Workshop** that will be held at the Woodbridge Health Center on **July 23rd**.**

- **Farmers Market **Green** Events**

Farmer Market begins on June 20th

- **And...**



Coming Soon a Sustainable Woodbridge link on the Township website.

Sustainable Woodbridge – Windows Internet Explorer

http://www.sustainablewoodbridge.com



A Better Tomorrow. **SUSTAINABLE JERSEY** One Community At A Time
• CERTIFIED •

SUSTAINABLE WOODBRIDGE

Welcome to the Sustainable Woodbridge website!

Looking for the [Municipal Resolution](#)? Download it [here!](#)

187 municipalities registered in the first three months; all 21 NJ counties represented! [Read more.](#)

Before you contact us, check out our [FAQs!](#)

Woodbridge Goes **GREEN**





[home](#) [about](#) [actions](#) [communities](#) [events](#) [resources](#) [log in](#)

For more information contact Bob Robert at 732-222-4466 x880 or brobert@woodbridge.nj.us
Site created and powered by Township of Woodbridge

School Programs & Partnerships



Education for Sustainability

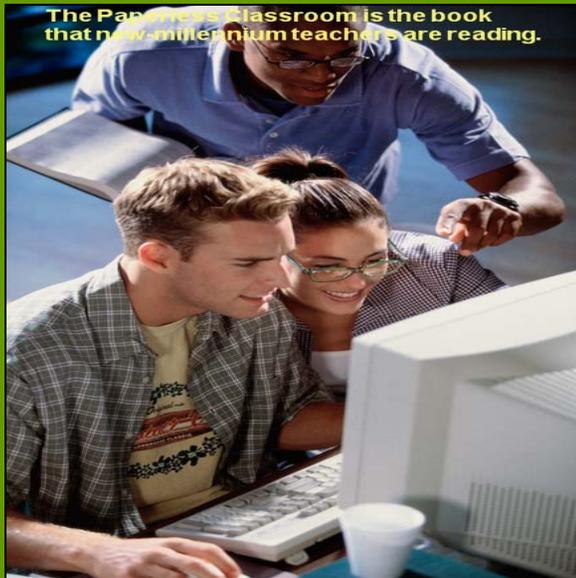
The purpose of the School Programs and Partnerships is to link schools with municipal sustainability initiatives by building partnerships between local government, communities, and schools.



Students will be able to apply what they are learning in school to real-world issues that directly affect their local community and that can have global implications.

The Future of a Paperless Classroom

Woodbridge Middle School is our first Green School. No paper is distributed, completely wireless, web based, Internet/Intranet information for staff, teachers and students (23 schools to follow).



All attendance is done on-line, no paper.

All staff members/students have computers / laptops in distribution of administrative computing and instructional computing.

Greening Technologies in Woodbridge

1. Consolidated 30 servers into 6 at Municipal Data Center for all 28 school buildings saving in energy and maintenance costs.
2. All curriculum guides are now being scanned and put on-line through Intranet.
3. Board Members will now have Netbook mini laptops eliminating paper and bus runs to their homes.
4. Skype cameras at all Principals computers eliminating meetings throughout the district. Saving gas and keeping Principals in schools longer for the students, teachers, and staff.
5. Smaller workstations and Netbook mini's laptops using less power/energy for all students.

Anti-Idling Campaign



Sustainability is about the future,
and students are our future.

Green Challenge Promotion

Students and their families can gain an understanding of what achieving sustainability require through fun programs like

Take the Green Challenge!

Take the Green Challenge!

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 Address _____ City _____
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Every Day Steps **YOU** Can Take to Help Make Your Community Green, Greener and Greenest!

Return this form to school by June 15, please.



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◆ John E. McCormac, Mayor & Dr. John Crowe, Superintendent ◆
 Woodbridge Township Board of Education & Woodbridge Township Environmental Commission

Green Fair in Woodbridge





Green Fairs promote community involvement and celebrate the community's green success as well as support local green businesses and stimulate the local economy.

In April Woodbridge held a Green Fair at the Community Center.





Green Fairs provide attendees with tools that they can take home and use.



Activities at the Fairs inspire members of the community to consider more sustainable choices.



Additionally, Green Fairs promote community involvement and celebrate the community's green success as well as support local green businesses and stimulate the local economy.



**ENVIRONMENTAL COMMISSION &
NATURAL RESOURCE INVENTORY**

What role does the Environmental Commission have in the Township?



April 15, 2009

To Whom It May Concern:

ANJEC knows the Woodbridge Township Environmental Commission as an active and committed municipal board. In 2007, the Commission obtained an ANJEC Smart Growth Planning Grant that helped them to collaborate with a consultant on a comprehensive ERI for the Township. The Commission wrote articles for the local press and hosted public information sessions to keep residents, the Planning Board and the governing body informed about the ERI and its importance as a reference document for land use planning.

The Environmental Commission has educated residents through displays and booths at community fairs, and has been particularly active recently with respect to energy issues. The Commission worked with municipal officials to sign on as a NJ Clean Power Community Partner, held a press conference with Mayor McCormac and Jeanne Fox, distributed compact fluorescent light bulbs and educational information to residents, and has worked with the Township to arrange purchase of hybrid vehicles for the municipal fleet, install solar panels on several municipal buildings, and convert various public lighting and traffic signals to solar power. Chairman Christopher Adornato made a presentation on Woodbridge's energy initiatives at ANJEC's 2008 Environmental Congress.

Woodbridge Township is fortunate to have a very effective and dedicated Environmental Commission working on its behalf.

Sincerely,

Kerry Miller
Assistant Director

The Environmental Commission and Sustainable Woodbridge

Woodbridge Township

Environmental Resource Inventory (ERI) Finished in Oct 2007

--This serves as an index of natural resources and is a compilation of text and visual information about the natural resource characteristics and environmental features in Woodbridge Township.

--It provides baseline documentation for measuring and evaluating resource protection issues.

It can be used in:

- Planning boards
- Zoning boards of adjustment.



The ERI was adopted as part of a Master Plan and serves as the first step to protecting and preserving the natural resources within a municipality.

It can also be integrated into the plan as the basis of the conservation element, providing the documented basis for the development of resource protection ordinances.

ANTI-IDLING



Waste of Fuel = Burning Dollar Bills in Your Gas Tank

Idling for only 10 seconds uses more gas than it takes to restart the car.

Idling wastes gas and drains wallets. By turning the key off, drivers can save gas and money.

No-Idling **LAW** since 1985



Fine Particle Pollution and

Vehicle exhaust contaminates the air with harmful particles and chemicals. Idling can lead to the following negative impacts:

Environmental Damage
Air Pollution and worse...

Health Damage

- Heart and Lung Ailments
- Allergies and Asthma
- Cancer

Health Risks



SOLAR

The sun's rays are a 100% clean and renewable source of energy, and solar (along with wind), are the two fastest-growing sources of renewable energy in the U.S.

ENERGY



In 2006 New Jersey showed the highest percentage increase in solar installations in the country.

In the last seven years, over 3,300 locations across the state have installed solar technology, providing a combined capacity of over 60,000 kilowatts.



Woodbridge is proud to be a part of the growing renewable energy program with the installation of Solar Panels on the Woodbridge Community Center building this summer.



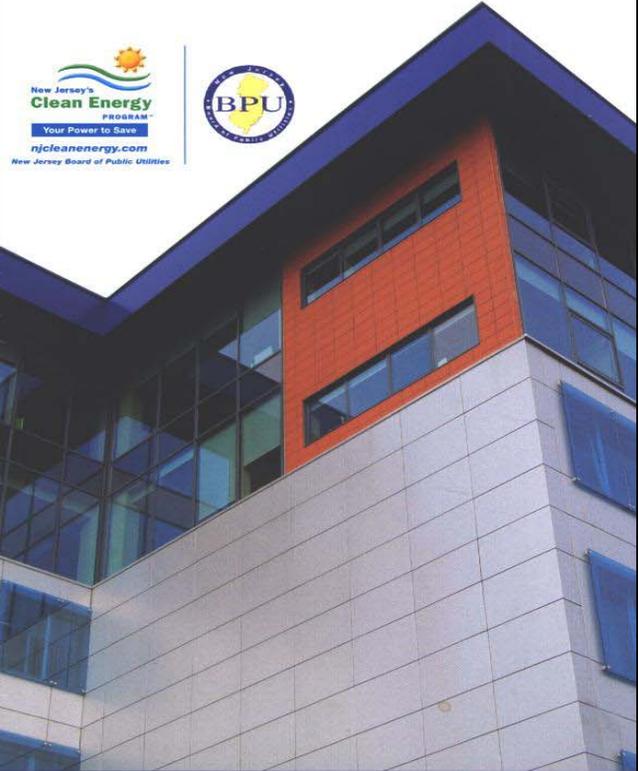
Future sites include the:

- Health Center
- Pump Station
- Main Library
- Iselin Library
- Evergreen Center

New Jersey
SmartStart
BUILDINGS.
ENERGY
AUDIT PROGRAM

FOR MUNICIPALITIES AND
LOCAL GOVERNMENT

New Jersey's
Clean Energy
PROGRAM
Your Power to Save
njcleanenergy.com
New Jersey Board of Public Utilities



NJCleanEnergy.com/ssb

Energy Audit for Municipal Buildings



**Improving energy efficiency
and conservation are
essential to achieving
environmental
sustainability.**

Good Energy Management Starts with an Energy Audit

- **Energy Audits** highlight the dual benefits of dollar savings and environmental protection from energy efficiency and conservation improvements.
- **Energy Audits** provide data that a municipality can use to develop future policies.



Why is an Energy Audit Important?

- ❖ **Conducting a municipal energy audit is a first step towards identifying opportunities to cost-effectively reduce energy use and associated carbon dioxide emissions.**
- ❖ **Energy audits help improve indoor air quality, lighting quality, and building occupant satisfaction.**

Without the baseline data, resulting from an audit, a municipality will not have information necessary to make informed decisions now and in the future about which energy saving strategies can both save money and improve energy efficiency and occupant comfort.



An energy audit of all facilities owned and operated by a municipality can be conducted. The audit will...

- Establish where and how energy is being used in buildings and facilities and identify opportunities for energy and cost savings.
- Reveals annual energy use and costs associated with particular buildings and facilities.
- Provides costs of suggested improvements, potential energy and cost savings.
- Estimates the length of time that will be needed to recoup improvement costs.



Upgrade and Retrofit for Municipal Buildings

Municipalities have the opportunity to make significant improvements to the operations and maintenance of existing municipal facilities.



Why Upgrade and Retrofit?

Green building policies demonstrate the municipality's commitment to environmental, economic, and social stewardship practices that...



- Reduce operating costs
- Provide healthy work environments for staff and residents
- Demonstrate municipal leadership by setting a community standard of sustainable/green buildings.

It is important...

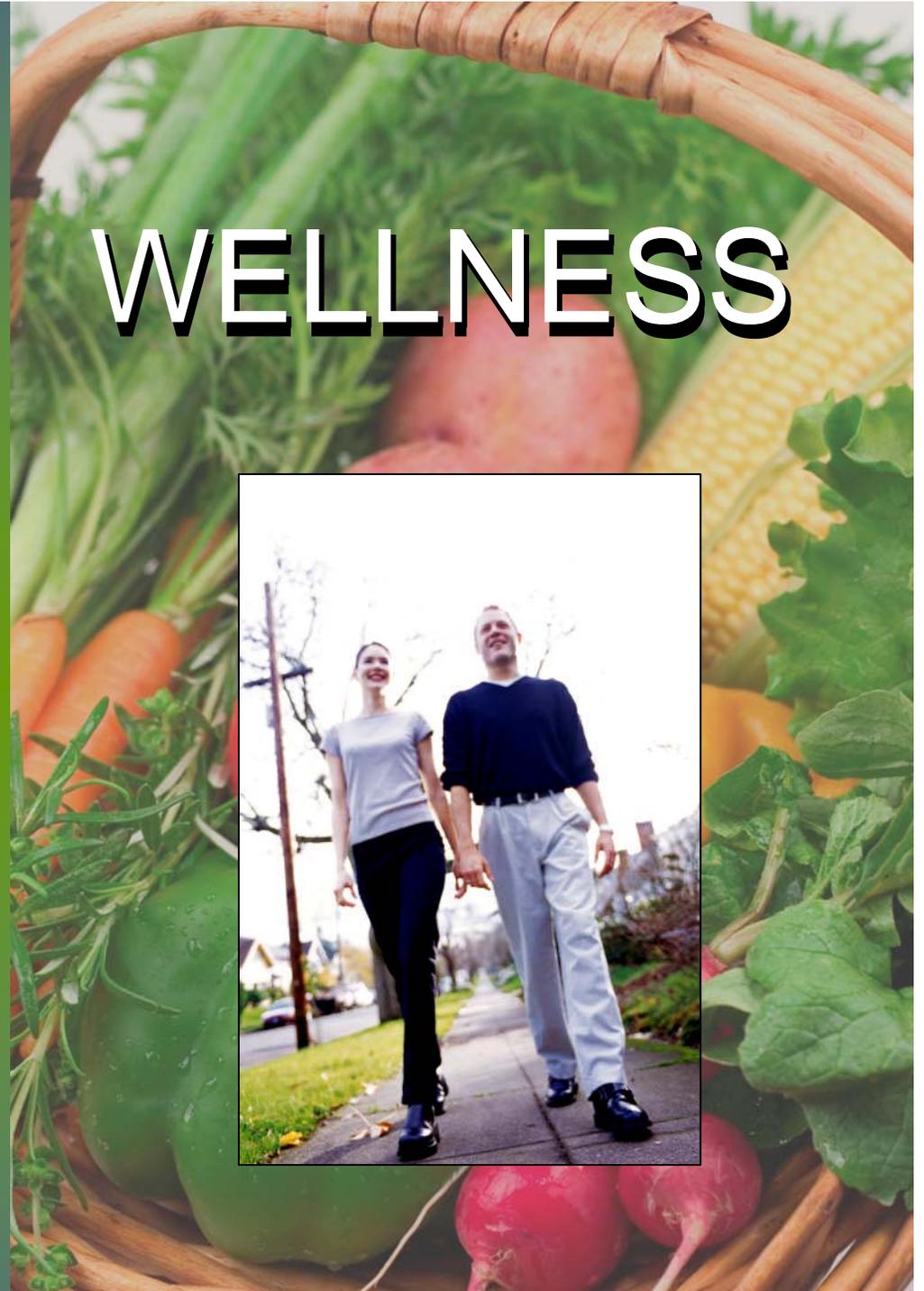
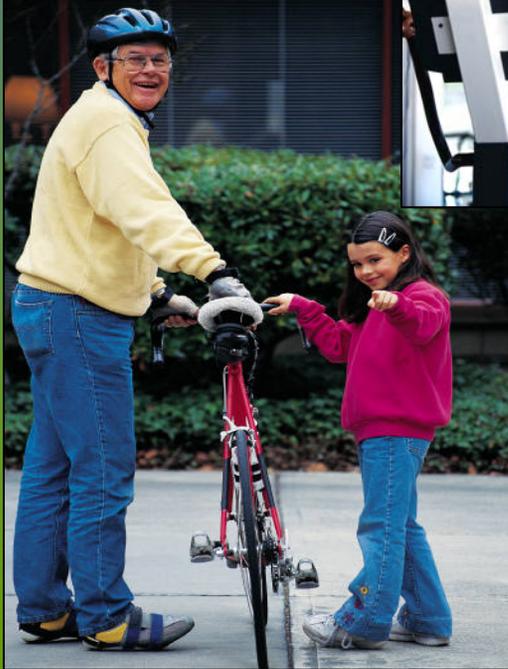
that communities adopt green building upgrade and retrofit policies for their existing building stock by...



- Organizing Green Building Training for Appropriate Staff and Volunteers
- Improve Water Conservation
- Reduce Light Pollution
- Increase Construction Waste Recycling

MAYOR'S

WELLNESS



The Mayor's Wellness Campaign offers programs that promotes wellness through good nutrition and physical activity.





Tour de Woodbridge was on Sunday, September 28th and was a 29.4 Mile Course through 10 Towns.

Woodbridge Named New Jersey “Healthy Town” July 2008



COMMUNITY ASSET MAPPING



Community Asset Mapping is most successful when the community is engaged in organizing and participating in a walkability audit.



On Monday, April 27th, 2009 Mark Fenton took the members of “Pioneering Healthier Communities” on a “Walkability” audit. Mr. Fenton, a foremost expert on the activity of walking as well as a champion walker, spoke about the benefits of walking and the benefits of a community that promotes walking.

The benefits of conducting a Walkability Audit is...

- **To raise community awareness of walking and biking**
- **To promote physical activity by providing safer and more pleasant walking and biking environments**
- **To help the community assess needs and set priorities to make neighborhood streets and sidewalks safer**
- **To reduce carbon emissions and fossil fuel consumption by relying less on automobiles and buses**
- **To promote public participation and community pride**
- **To develop a Community Asset Mapping process**

On Saturday, May 30th, 2009 through a collaboration between Woodbridge Township, the Pioneering Healthier Communities (PHC) team, Dr. Wansoo Im, students and parents, neighbors and residents, gathered at Woodbridge Township Elementary Schools and walked together.



Dr. Wansoo Im, is president of Vertices LLC, a GIS consulting firm, and a professor at Rutgers University in New Brunswick.

Why is Community Asset Mapping important?

Community asset mapping can be used to improve the quality of community life.

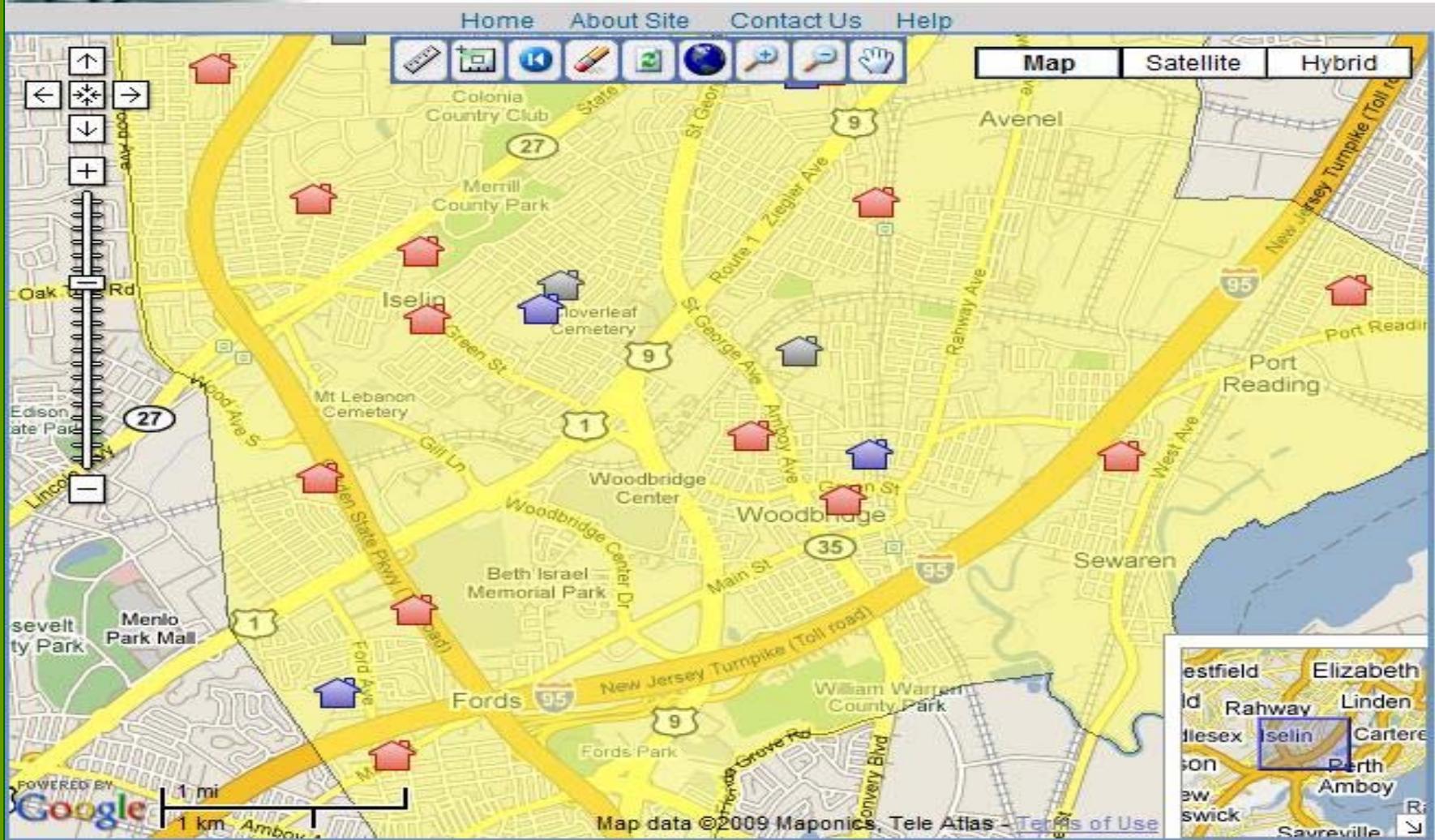
Physical structure or places, including parks, schools, hospitals, places of worship, recreational resources, libraries, special places, neighborhoods within communities, clinics, and social/fraternal organizations. Natural assets, like wetlands, trails, and open space.

Community resources such as health clinics, social services organizations, faith-based organizations, recreational groups (both organized sports and informal recreational activities), civic and fraternal organizations, economic development or business associations, and job training programs.

Businesses that provide local jobs and work to build a strong local economy.

People are also community assets. Understanding and identifying people who routinely volunteer, mentor, and share their expertise and organizational skills to strengthen our communities can be a force for community improvement.

WOODBIDGE TOWNSHIP WALKABILITY AND BIKEABILITY



<http://www.bikenwalk.com/woodbridgewalk/>

GREEN DESIGN COMMERCIAL & RESIDENTIAL



GREEN DESIGN

																																																																																																																					
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Commercial & Residential Buildings

- Adopt a Green Building Policy
- Create a Green Building Scorecard
- Implement Green Design Standards through Site Plan review
- Distribute Green Building Educational Information

SUSTAINABLE

LAND USE PLEDGE



“A public affirmation of a municipality’s intention to use decision making and policies to support smart growth and sustainable development”



Public Visioning

**Reevaluate Land Use Practices
& Planning Policies**



Develop a Community Plan

Develop Sustainability Master Plan



The Pledge addresses:

Facilities Siting – Factors such as walkability, access to transit, proximity to other uses, and opportunities for alternative energy production when siting new or relocated municipal facilities.

Housing Variety - Allow for a diverse mix of housing types.

Natural Resource Preservation and Management - Preserve open space for its ecological and recreational value and take actions to protect ecological resources and value. Avoid or mitigate development impacts to natural resources during development process.

Transportation Choices - Create transportation choices by considering all modes of transportation.

Mix of Uses – Allow for a mix of uses in areas that make the most sense.

Green Design – Incorporate the principles of green design into site plan and subdivision requirements.

Regional Cooperation – Meet regularly with the administrations of neighboring municipalities concerning land-use decisions and to consider neighboring communities' concerns when making regional land-use decisions.

Parking Reduction - Reevaluate parking requirements with the goal of limiting the amount of required parking spaces and promoting shared parking between multiple users.

LOCAL ECONOMICS

- Buy Local Programs
- Green Business Recognition
- Green Jobs & Economic Development





By choosing Green Businesses you can help reduce waste and protect our environment. Green Businesses help prevent pollution, minimize waste, and conserve water & energy.

Encourage local residents to support businesses operating in an environmentally friendly manner.

Buy Local Programs

Buy Local Programs will encourage local residents to support businesses operating in an environmentally friendly manner.

- **Organize a Buy Local campaign week event.**
- **Create a business sponsorship package of materials and information that local businesses can use to show their support and participation in the program.**
- **Work with municipal government, media, and business partners to host a high impact press conference kick-off event.**

Green Business Recognition

- Green Business Certificates
- Green Business Window Decals
- Local Green Business web site link
- Green Business brochures, handouts and resource center
- Grants, loans or tax incentives for Green Businesses
- Support in specific areas such as energy efficiency, waster management, landscaping, green and local purchasing
- Support from the Chamber of Commerce

Green Jobs & Economic Recognition

Green Workforce Development Strategies

Track Green Jobs and Assess Workforce Capacity

Establish a Green Job Training Partnership

Create a Green Economic Development Plan

Invest in Sustainable Infrastructure

Provide Marketing and Business Support

Sustainable Woodbridge Supports

**Clean Energy
Technologies and
Environmental
Manufacturing &
Construction**



GREEN TECHNOLOGY PARK @ WOODBRIDGE

... Pennval Road Incubator & Redevelopment Area ...

"Green" Development Opportunities Available... Invest Today for Tomorrow's Sustainable Future!

- ◆ **Promote:** The Green Technology Park @ Woodbridge promotes Start-Up and Production of Clean-Energy Technologies... Sustainable Energy Sources... "Green" R&D... Environmental Manufacturing and Construction
- ◆ **Support:** Green Technology Park @ Woodbridge is New Jersey's All-Encompassing "Green Incubator" in place to support start-up and growth of "Green" businesses from the production of Sustainable Energy Technologies... to Solar Panel Production and On-Site Solar Farm... to the manufacture of "Green" construction materials to environmental disposal systems... If it's "Green" the Green Technology Park @ Woodbridge is **THE** answer to today's "Green" production market
- ◆ **Encourage:** The Green Technology Park @ Woodbridge is in front of the "Green Economic Boom" and serves as the statewide "Green" Incubator setting in place to encourage creation of "green-collar" jobs
- ◆ **Educate:** The Green Technology Park @ Woodbridge serves as the education and R&D catalyst for professionals, businesses & citizens on the development of Sustainable Building Technologies and as the center of New Jersey's and the Region's "Green" economy



Crossroads of New Jersey —

- ◆ The Green Technology Park @ Woodbridge is located on 107 acres off Pennval Road in Woodbridge Township, Middlesex County, New Jersey
- ◆ Located along the Woodbridge River, the Green Technology Park @ Woodbridge is easily accessible from the New Jersey Turnpike, Garden State Parkway, Interstate 287 and Routes 1&9 and 35, with easy access to New York City via the Outer Bridge Crossing and Route 440.

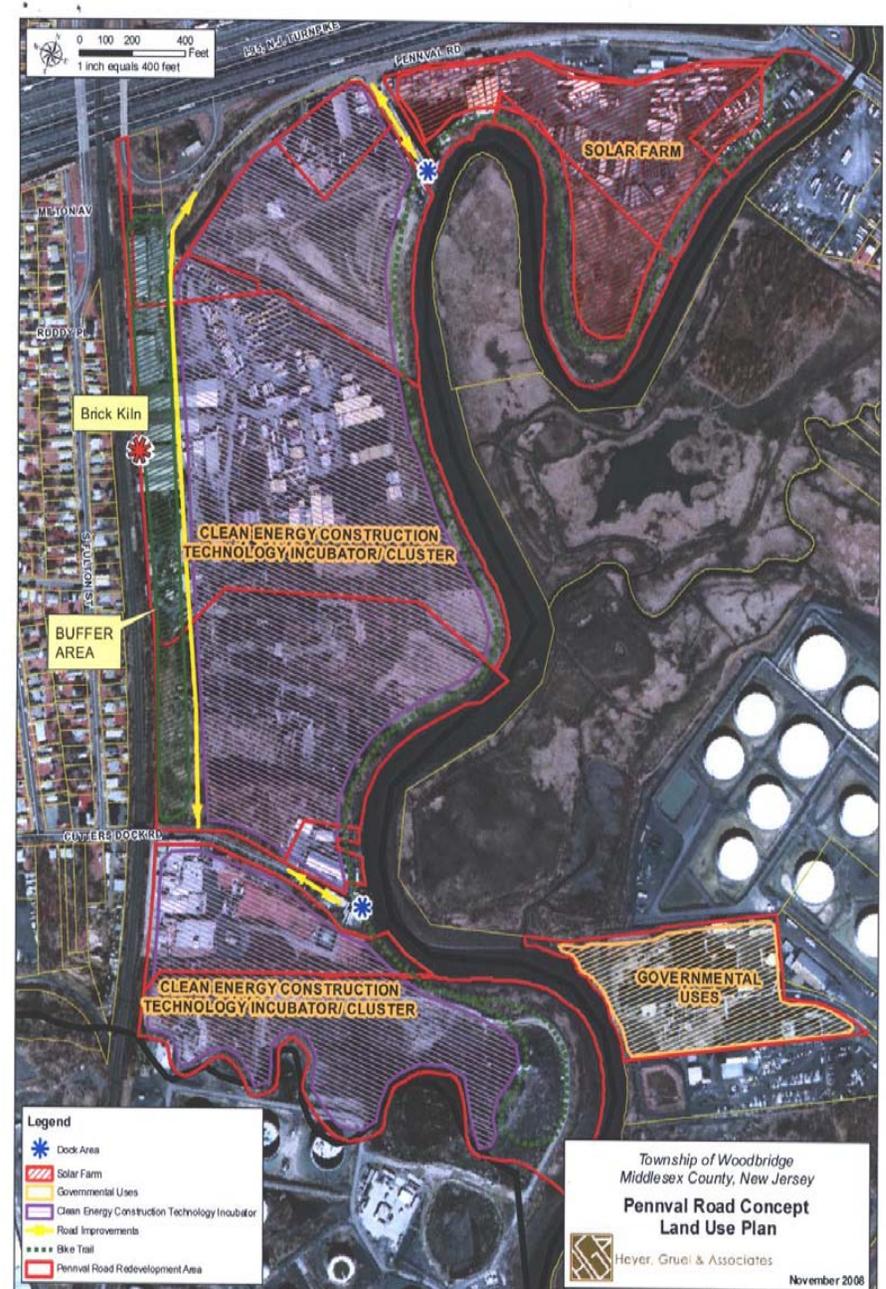
Help Is Available —

- ◆ Woodbridge Township supports continued development and expansion of the Green Technology Park @ Woodbridge through WEDCO (Woodbridge Economic Development Corporation) and multiple economic development initiatives
- ◆ Grant funding and related financial assistance programs to spur "Green" incubator technology is potentially available via the State of New Jersey and numerous federal and private sector agencies

How to Join the "Green Technology Park @ Woodbridge" —

CONTACT: Caroline Ehrlich, Executive Director
Woodbridge Township Redevelopment Agency
One Main Street
Woodbridge, NJ 07095
(732) 602-6015

Caroline.Ehrlich@twp.woodbridge.nj.us
www.twp.woodbridge.nj.us



Green is more than just a
color.



It's the cornerstone of everything we do.

Recycled Paper

Sustainable Forestry Initiative



Sustainable Forestry Initiative

- Our paper comes from forests that are certified
- Forest certification standards are based on principles which promote sustainable forest management and which include measures to protect biodiversity, water quality, wildlife habitat and species at risk.
- At this time, only 10% of the world's forests are certified.
- This concept can be described as the attainment of balance – balance between society's increasing demand for forest products and the preservation of the forest's health and diversity
- When products are made from the rainforest, those forests are getting destroyed quicker than it takes time to replace.
- Our copy paper, pencils and paper towels are all SFI certified.



Sustainable Copy Paper



Green Cleaning Products

- The purpose of “going green” is to address human illnesses that arise from exposure as well as damage to the environment.
- The Township is diligent in the use of eco-friendly products – we wish to do our part to save the air and water from non-green volatile cleaning compounds.
- Our cleaners are made from recycled orange peels and non-toxic environmentally safe chemicals.

Green Cleaning



Office Supplies

- There has been a 500% increase in the manufacturing of “green” and recycled office supplies.
- A listing of “green” items we purchase are:
 - Pens made from recycled car batteries
 - Paper clips
 - Scissors
 - Post-it notes
 - Envelopes
 - Pencils



Re-capped Tires

- One of the Township's most innovative initiatives is our re-capped tire program.

- ❖ Over 1 billion tires are thrown away every year worldwide.
- ❖ There are currently over 7 billion tires sitting in landfills globally.
- ❖ They can take nearly decades to degrade.



Re-capped Tire Facts

- Re-capped tires represent a savings of over \$3 billion dollars in North America.
- Re-capped tires are not only cost effective, but they are also dependable, safe, and reliable.
- Re-capped tires are environmentally friendly.
- It takes about 22 gallons of oil to manufacture one new truck tire.
- It takes only 7 gallons of oil to produce a re-capped tire.
- The Township's wide based truck tires save even more fuel!



**COMING
ATTRACTIVEIONS**

Hybrid Command Vehicle

- First in the country
- Runs on battery and electric
- Has capability to run Town Hall municipal building in case of a power outage



Biodegradable Binders

- Regular binders take over 800 years to decompose.
- Biodegradable binders take just 4-5 years.



Before



After

Goals & Successes

- When using recycled products, we use:
 - 65% less energy
 - 80% less water
 - create 95% less air pollution
 - thousands less in oil usage
 - thousands of trees saved annually
 - thousands less cubic yards of landfill space





Tree and Woodland Management



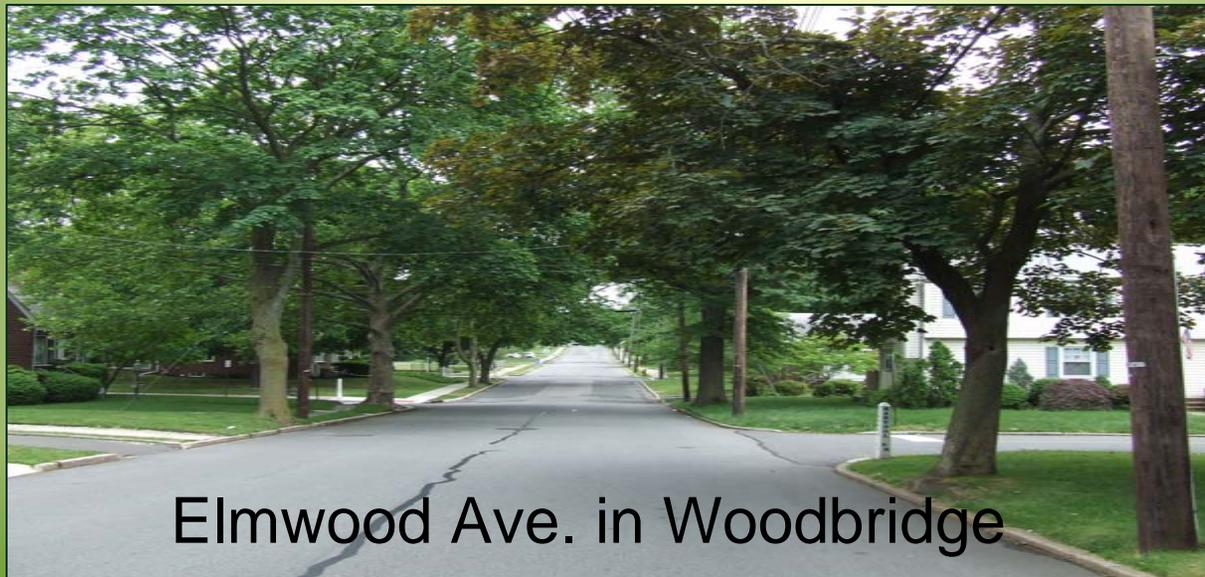
Tree and Woodland Management

Communities throughout New Jersey have long recognized the importance of managing and protecting their street tree and woodlands resources. The goal of this action is to help communities initiate or expand tree management programs by:

- Planning and assessing the existing community tree resources
- Assessing the health of the trees
- Developing programs to protect, manage, and expand the tree canopy in the municipality
- Document the benefits trees provide for mitigating climate change, reducing flooding and improving air quality.

Tree Canopy Plan

A Tree Canopy reduces heating/cooling costs, lowers air temperatures, reduces air pollution, increases property values, provides wildlife habitat, and provides aesthetic and community benefits such as improved quality of life.



Elmwood Ave. in Woodbridge

Community Forestry Plan

A Community Forestry Plan is to identify specific actions to be taken by our township in achieving its mission to increase, enhance, and protect its tree and forest resources.



Tree Planting Program

Tree Planting Programs can focus on expanding street tree coverage, creating new canopy cover around municipal buildings and schools, enhancing parks and recreation sites, establishing forest cover on municipal open space, and reducing heat island impacts in urban settings.



Grounds & Maintenance

Efficiency in Landscape Design

Maintenance Policies

Efficient Design

- Functional
- Efficient use of all available space
- Aesthetically Pleasing
- Cost Efficient
- Minimal Use of Water & Pesticides



WELCOME TO
HOPELAWN

*Clyde Avenue
Park*



SIGN CONTRIBUTED BY
LOWE'S • WAL*MART



Maintenance Policies

- Pest Management
- Weed Pharm
- 95% Pesticide Grade Vinegar
- Dissipates within 1 hour
- Non-Toxic
- No known cancer or reproductive hazards
- Water soluble

Grounds Maintenance

- Seeding Program – Spring Fall
- Aeration
- Organic Fertilizers - Manure
- Regular Schedules for Cutting

Green Fleet

Bio Diesel

Diesel Retro Fit

Hybrids

Bio-Diesel



- Program started 8-13-07
- Using B-20 Bio-Fuel
- 80% Low Sulfur Diesel
- 20% Bio-Fuel
- Improved Fuel Mileage
- Decrease in Diesel Emissions

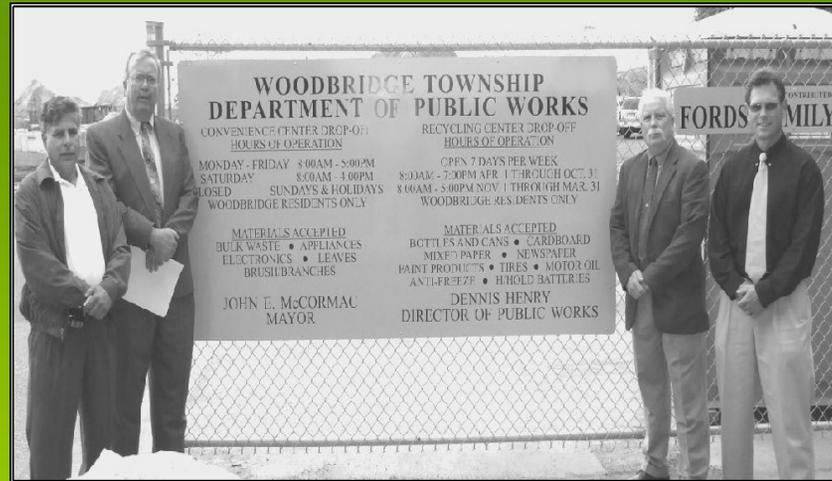
Diesel Retro Fit

- Diesel Risk Reduction Program
- NJDEP plan to reduce diesel emissions
- Eliminate exhaust particle matter
- BART 1,2,3
- Best Available Retro Fit Technology
- Mandated for all Solid Waste Vehicles
- Township is 98% complete

Hybrids

- Improved Mileage Per Gallon
- Less Fuel Consumption
- Fewer Emissions
- Reduced Fuel Costs
- Improved Air & Water Quality
- Benefits Public Health

Recycling



- ❑ Programs in all Municipal Buildings
- ❑ Operate Recycling Depot
- ❑ Adopted C & D Recycling Ordinance
- ❑ Program for E-Waste Textiles Tires
- ❑ Host 2 Paper Shred Events Yearly
- ❑ Curbside Efficient – Single Stream
- ❑ Maintained 60% Recycling Rate

Waste Reduction



- Adopt Cut it and Leave it Program
- Convenience Center Bulk Waste
- Disposal Facility 70% Recycling Rate
- Waste Audit of Municipal Buildings
- 60% Municipal & Commercial Waste Stream Recycled

Rain Gardens & Bio-retention Basins



Rain Garden Definition

A rain garden is a planted depression that allows rainwater runoff from impervious urban areas like roofs, driveways, sidewalks, parking lots, and compacted lawn areas the opportunity to be absorbed.

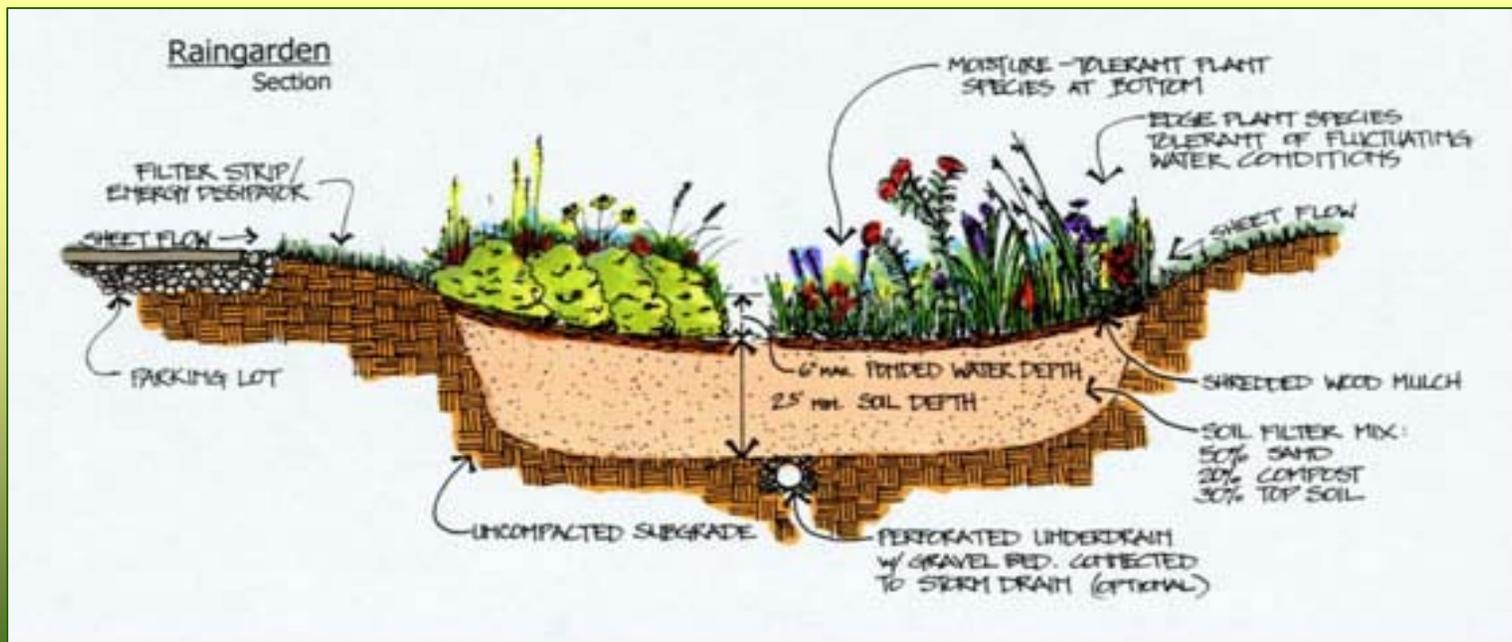
What is a Rain Garden?

A landscaped area that receives storm water runoff
from
Roofs, Driveways, Sidewalks, Parking Lots &
Compacted Areas



What is a Rain Garden?

It is a shallow depression or catchment structure that is filled in with soil and mulch that absorbs and infiltrates storm water runoff

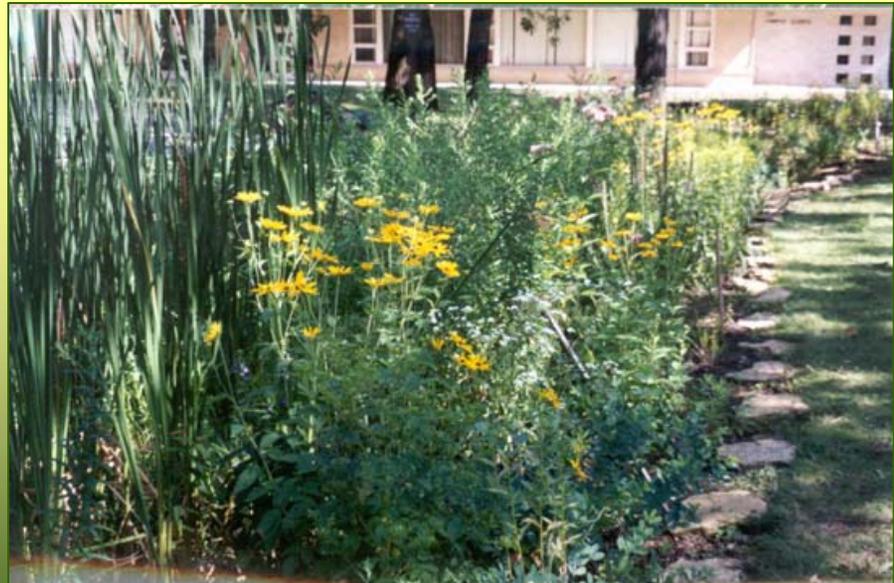


What is a Rain Garden?

It is a landscaped area that is filled with native wildflowers, shrubs and grasses that are tolerant to both wet and dry conditions



Before



After

Benefits of Rain Gardens

- Trap and treat pollutants
- Recharge groundwater
- Reduce runoff to storm water system
- Restore natural habitats
- Improve soil
- Attract birds, butterflies and other wildlife
- Low maintenance, no mowing
- Enhanced property values

Impact of a Rain Garden

- 90% of rainfall events are less than 1.25"
- New Jersey has approximately 44" of rain per year
- A rain garden can treat and recharge
 $0.9 \times 44" = 40"/\text{year} - 3.3 \text{ ft}/\text{year}$
- If the rain garden receives runoff from 1,000 sq. ft.
- Total volume treated and recharged by the rain garden:
 $1,000 \text{ sq. ft.} \times 3.3 \text{ ft}/\text{year} = 3,300 \text{ cubic feet}/\text{year}$
which is 25,000 gallons/year
- Build only 40 rain gardens and we will have treated and recharged 1 million gallons of water per year

MOSQUITOES

- Mosquitoes have a 10 day life cycle from egg to adult.
- Properly sited and designed rain gardens should drain in less than 2 days.
- Mosquitoes that carry most diseases do not live in ponds. They prefer small amounts of standing water such as holes in trees, old tires or bird baths.



Our Own Success Story

Installed by a crew from the New Jersey Agricultural Experiment Station of Rutgers University in 2005 to eliminate flooding inside the Woodbridge Health Center







SUSTAINABLE

WOODBIDGE

Thanks you for your 
commitment and would
like to know...

your Thoughts?