

ANJEC Road Show May 22, 2013



BRINGING IT HOME

**Strategies for sustainable
communities**

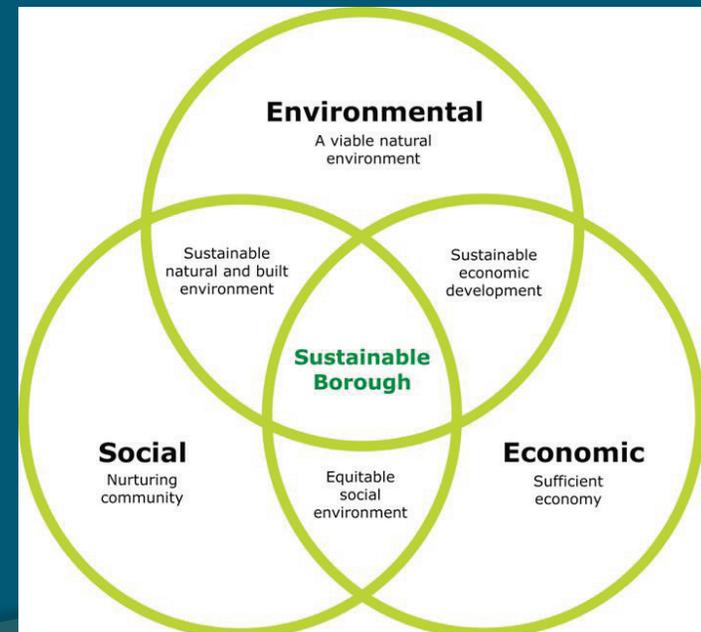
What is sustainability?

Practices that meet the needs of the present without compromising the ability of future generations to meet their own environmental, social and economic needs

Environmental

Social

Economic



Every community can make a difference in securing a sustainable future.

- **Involving the community**
- Inventories, audits & assessments
- Sustainability Action Plan
- Policies
- Land use planning & zoning
- Ordinances
- Municipal initiatives

Involving the Community in Kinnelon

- ERI update
- Get the phosphorous out
- Water conservation
- Stonybrook School Garden
- Environmentally conscious grounds and maintenance policy

Involving the Community

Chatham Township's Back2Tap program discouraged single-use plastic water bottles

- 100 million disposable plastic water bottles go to landfills everyday in US
- 17 million barrels of oil are used every year – enough to fuel 1 million cars!
- Only 23% of plastic bottles are recycled



Information from ANJEC

*Go **Green** for a Sustainable Future*

Green Communities

The Environmental Commission in your town works with the municipal government to protect precious resources and create a healthier place for people to live. Here are some things towns can do:

- ♦ Create more walking & biking paths
- ♦ Enact no-idling ordinances
- ♦ Encourage green building materials
- ♦ Establish pesticide-free zones
- ♦ Prevent stormwater from eroding soil and degrading streams
- ♦ Encourage green power
- ♦ Preserve open space
- ♦ Pass ordinances to protect wetlands, steep slopes and other critical areas
- ♦ Advocate to reclaim brownfields
- ♦ Enact ordinances to protect trees
- ♦ Adopt rules to foster clean air and drinking water
- ♦ Control noise & light pollution

Green homes

Here are some easy things you can do to conserve resources and eliminate toxins in your home:

- ♦ Use energy-efficient light bulbs
- ♦ Clean with biodegradable, non-toxic products
- ♦ Go solar or choose renewable energy sources
- ♦ Pick appliances using less energy & water
- ♦ Insulate and weatherproof
- ♦ Get heating and cooling systems serviced regularly
- ♦ Adjust the thermostat
- ♦ Fix drips and install low-flow showerheads
- ♦ Keep lawns chemical-free
- ♦ Mow it & leave it
- ♦ Test for radon
- ♦ Reduce air pollution from aerosols, building materials, dry cleaning, etc.
- ♦ Be alert for lead paint

Green living

Personal choices you make each day may seem small, but they can benefit the planet in a big way.

- ♦ Capture & re-use rainwater
- ♦ Recycle
- ♦ Compost table scraps & yard waste
- ♦ Avoid excessive or non-recyclable packaging
- ♦ Choose products that are reusable, durable, made of recycled materials
- ♦ Flush less
- ♦ Buy locally grown foods
- ♦ Pick up after pets
- ♦ Choose fuel-efficient cars & maintain them
- ♦ Drive less

anjec
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ENVIRONMENTAL COMMISSIONS
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Sustainable Communities

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Inventories, audits and assessments

- ⦿ Perform an environmental resource inventory
- ⦿ Conduct an energy survey of all municipal operations, including water treatment.
- ⦿ Calculate municipal carbon footprint
- ⦿ Review public works processes, i.e. garbage collection, recycling and snow removal for ways to improve sustainability.
- ⦿ Encourage residents to calculate their household's carbon footprint and personal emissions.

NJ Clean Energy – Energy Audit

Local Government Energy Audit | NJ OCE Web Site - Mozilla Firefox

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At Home, for Business, and for the Future

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HOME RESIDENTIAL **COMMERCIAL, INDUSTRIAL AND LOCAL GOVERNMENT** RENEWABLE



Home » Commercial & Industrial » Programs

Local Government Energy Audit

COMMERCIAL, INDUSTRIAL AND LOCAL GOVERNMENT

HURRICANE SANDY

PROGRAMS

- ▶ NJ SMARTSTART BUILDINGS
- ▶ PAY FOR PERFORMANCE
- ▶ COMBINED HEAT & POWER AND FUEL CELLS
- ▶ LOCAL GOVERNMENT ENERGY



LOCAL GOVERNMENT ENERGY AUDIT

Download the **complete package** of Guidelines and Application Forms.

This pdf document contains e-forms which can be completed, saved on your computer and printed. You must be using version 5 or later of Adobe Reader to access e-forms. Download a [non e-forms](#) version of the package if you are using an earlier version of Adobe Reader.

Program U

- Food Service Equip... Now Available State
- Local Government E... Eligibility Expanded
- Hurricane Sandy En... Incentives Available
- New Combined Hea... Cell Program Launch
- Notice of 2013 Char... Programs
- Other updates posted

Featured Succ

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Energy Eff

Sustainable Communities

- Involving the community
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- **Sustainability Action Plan**
- Policies
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Final Draft
June 2008

Action Plan for a Sustainable Summit



City of Summit, N.J.
June 2008



Energy in the Built Environment
Green Building Practices
Transportation & Circulation
Water: Usage & Protection
Solid Waste & Recycling
Green Canopy & Open Space
Green Purchasing
Education & Communication
Implementation & Governance

PREPARED BY THE MAYOR'S SUSTAINABLE COMMUNITY TASK FORCE



Sustainable Communities

- Involving the community
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- Sustainability Action Plan
- **Policies**
- Land use planning & zoning
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- Municipal initiatives

Municipal Policies

- Adopt green building standards (LEEDS) for municipal construction projects
- Enforce no-idling laws
- Adopt IPM policy on municipal grounds
- Implement sustainable purchasing policies
- Use green cleaning supplies
- Sign the Mayors' Climate Protection Agreement
- Protect and enhance the biological community

Policies

Livingston

- ⦿ When the old municipal building was demolished after a new one was erected, the township recycled much of the debris, including asphalt, concrete, bricks, slate roofing, metal and paper.
- ⦿ The new building has a white roof to mitigate the heat island effect, and energy efficient lighting with automatic controls to turn lights off when occupants leave a room.



Sustainable Communities

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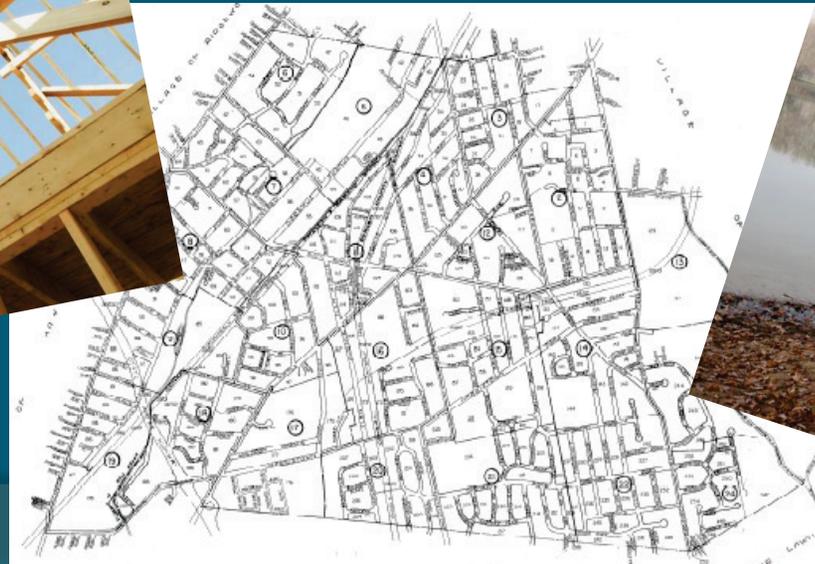
Land use planning & zoning



- Green your master plan
- Plan for open space protection
- Zone for conservation and mixed-use
- Shared parking
- Pedestrian and bicycle friendly-circulation
- Convert brownfields to green fields

Land use decisions

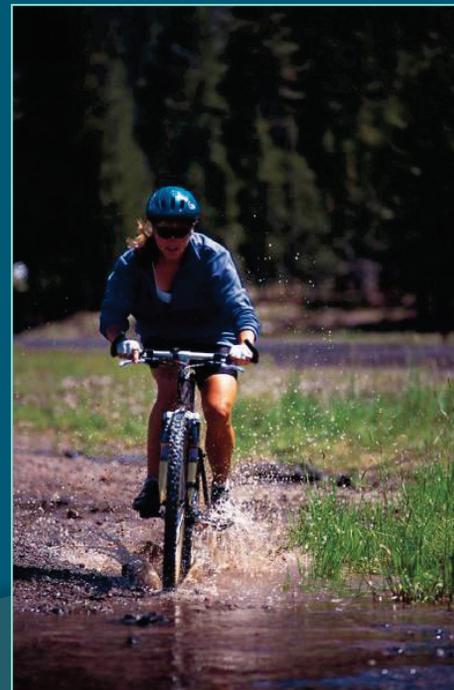
- Encourage low-impact development and green building
- discourage sprawl
- conserve open space
- reduce the burden on natural resources caused by land clearing, construction, commuting, road building and maintenance
- Protect T&E species and preserve habitat



Sustainable land use

Reduce reliance on fossil fuels that cause carbon emissions by fostering

- energy efficient, green buildings,
- safe lanes for walking or biking around town
- easy access to mass transit



Protect natural resources

Protecting trees and other vegetation helps

- absorb carbon emissions and
- insulate buildings to reduce cooling loads.



Protect natural resources



- Protecting natural water bodies helps ensure the continued availability of drinking water while reducing the need for energy-intensive processing and transportation of drinking water supplies.

Protect natural resources



Foster a healthy, resilient ecosystem:

- ⦿ Prevent invasive species from degrading biodiversity.
- ⦿ Plant native species that require fewer resources to thrive.

Sustainable Communities

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Ordinances

- Strong stormwater management
- Water conservation
- Tree planting, replacement and protection
- Conservation design zoning
- Noncontiguous cluster zoning
- Pedestrian overlay district



- Renewable energy
- Pesticide use
- Fertilizer use
- Recycling
- Critical areas protection, such as wetlands, stream corridors, flood zones, dunes, forests, steep slopes, well heads, etc.
- Transit village overlay

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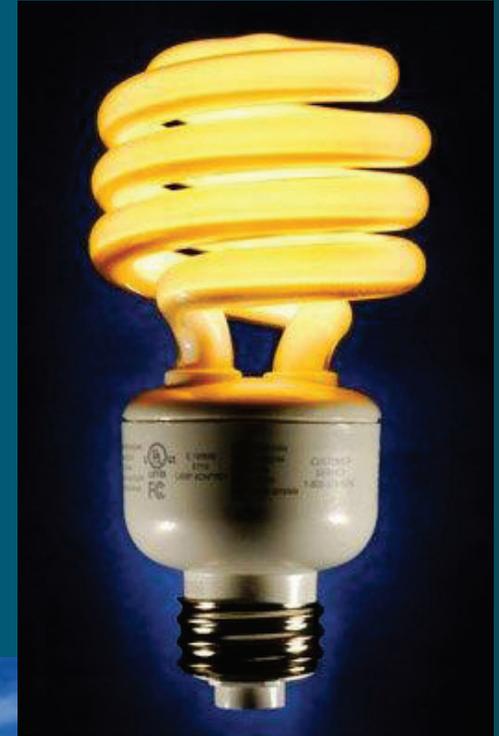
Initiatives



- Build or retrofit municipal buildings with energy efficient heating, cooling and lighting systems
- Replace fleets with more fuel efficient or alternative fuel vehicles

Initiatives

- Install LED traffic lights and use compact fluorescent lights in buildings, on ball fields and in street lights
- Consider opportunities for solar, wind, geothermal heat pumps and other alternative energy sources



Initiatives

- Explore ways to make it easier for commuting residents to carpool or use mass transit
- Set up electronics recycling program
- Restore wetlands and forest habitats
- Establish a farmers market





- Encourage residents to conserve water and energy, buy locally grown foods, reuse and recycle and other sustainable behavior
- Protect aquifer recharge areas and wellheads.
- Remove invasive species



Sustainable communities

After devastating flood damage from Hurricane Irene, Cranford has committed to improved stormwater management:

- ⦿ Passed a resolution to reduce impervious surfaces 10% by 2015
- ⦿ Trained planning and zoning board members on green infrastructure techniques



Sustainable communities

Go *Idle-Free* **Verona** - A campaign to reduce idling with:

- ⦿ “No Idling” signs at the schools and around town
- ⦿ elementary school poster contest and a Walk to School Day
- ⦿ produced a two-minute video that was aired daily municipal TV station, reaching thousands of residents



Sustainable communities

To cut climate-changing, health-harming vehicle emissions



Leonia developed a walking map of Leonia to encourage people to get out of the car and “Walk Leonia”



Red Bank's Step by Step campaign promoted ways to reduce vehicle emissions

Sustainable communities

Millstone Township— *Threatened & Endangered Species Protection ordinance*



To protect the environmentally sensitive community at the headwaters of the Assunpink with extensive wetlands, the Environmental Commission developed an ordinance that strictly protects T and E habitat. The Township Committee unanimously passed it in 2010.

Sustainable communities

Berkeley Heights EC Chair Len Berkowitz won the 2012 Governor's Environmental Excellence Award. The commission:



- Conducted energy audits of municipal buildings and installed energy-efficient lighting
- Established benchmarks for a municipal carbon footprint
- Installed signs to discourage idling in problem areas
- Inventoried land conservation easements
- Developed a list of energy-saving behaviors for the township's policy manual
- Created a vision statement and long-term plan for environmental protection
- Performed a study that quantified the economic benefit of tree canopy to the township

Tools & Resources

- Visit the Sustainable Communities section on our web site www.anjec.org
 - www.anjec.org/SustPathways.htm
- Contact the ANJEC Resource Center
973-539-7547

