

Sustainable West Winsor Plan 2007 Reference Compendium (RC)

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Document of the West Windsor Environmental Commission

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Introduction

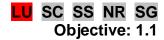
The **Sustainable West Windsor Plan 2007- Reference Compendium (RC)** serves as a companion document to the *Sustainable West Windsor Plan 2007.* The reference compendium lists resources that speak to each of West Windsor's five sustainability goals:

- Sustainable Land Use
- Sustainable Circulation SC
- Sustainable Society SS
- Sustainable Natural Resources NR
- Sustainable Government SG

The references are intended to provide additional information and/or clarification about certain proposed actions contained in the *Sustainable West Windsor Plan 2007*. The reference document is not meant to be an exhaustive compilation of resources but to be a starting point that highlights some of the best documented and/or New Jersey tailored websites, tools and resources in the field of sustainability planning.

The references are listed alphabetically under the goal and objective that they reference in the *Sustainable West Windsor Plan 2007*. Links to websites or actual documents are provided followed by a short description of the resource and information that the link provides. To avoid repetition, references that are relevant to multiple goal and objective areas have been housed under one goal and objective and cross-referenced to additional goals and objectives. For example, the green building resources housed under Sustainable Land Use: Objective 1.4 are referenced under Sustainable Government: Objective 5.6 instead of listing the resources in both places.

SUSTAINABLE LAND USE LU Reference Compendium



GOAL 1: SUSTAINABLE LAND USE

1.1 OBJECTIVE: Develop and implement smart growth strategies that foster pedestrian-scale, mixed-use, transit-oriented development for zoning modifications at the former American Cyanamid Tract, Village Center Redevelopment and potential development alternatives for the ROM, P and E zones

Smart Growth Regulations

 Municipal Regulations Checklist: A checklist for incorporating low impact development techniques into local regulations. New Jersey Stormwater Best Management Practices Manual. Feb 2004. Appendix B. http://www.njstormwater.org/tier_A/pdf/NJ_SWBMP_B.pdf

This checklist was prepared to assist municipalities in identifying the specific ordinances that should be evaluated, and the types of changes to be incorporated to address the requirements of the Stormwater Management Rules. PART 3: Impervious Area Management provides recommended low impact design ordinances for A) Streets and Driveways, B) Parking Areas and Sidewalks, C) Unconnected Impervious Areas.

❖ Smart Growth Resources

 NJ Department of Community Affairs- Office of Smart Growth (OSG) http://www.nj.gov/dca/osg/

The NJ Office of Smart Growth serves as a clearinghouse for information on issues such as encouraging mixed use development in town centers, preserving open space outside of growth areas, locating new schools or offices in walkable communities, and redeveloping brownfield sites.

 New Jersey Future <u>http://www.njfuture.org/</u>

New Jersey Future is a statewide research and policy group advocating a smarter way to grow: one that protects our open lands and natural resources, revitalizes neighborhoods, keeps housing affordable, and provides more transportation choices



❖ Smart Growth Resources cont.

 New Jersey Smart Choices http://www.njsmartchoices.org/

This site is a collaborative effort of the Municipal Land Use Center at TCNJ and Project for Public spaces intended to be a resource to improve information, resources and training for municipal, county and state leaders who are working to implement Smart Transportation and Smart Land Use plans in their communities. The site also contains a searchable database for funding sources for smart transportation and land use choices.

NJ Smart Growth Gateway

http://www.smartgrowthgateway.org/getstarted.shtml

The New Jersey Smart Growth Gateway is a clearinghouse of information that provides an introduction to Smart Growth, information on planning tools, case studies and model ordinances, financing opportunities and links to more information.

New Jersey Smart Growth Planning & Program Resources: Technical & Financial Assistance

http://www.ni.gov/dca/osg/docs/techassist100605.pdf

This document contains a variety of grant, loan and technical assistance programs that are relevant to planning and infrastructure support in New Jersey. Topics include: Brownfields; Economic Development; Farming & Agriculture; Housing; Land Use & Environmental Protection; Parks, Recreation & Historic Resources; Transportation; and Additional Funding Sources.

Parking Spaces/ Community Places: Finding the Balance through Smart Growth Solutions. (EPA Jan 2006)

http://www.epa.gov/smartgrowth/pdf/EPAParkingSpaces06.pdf

EPA developed this guide for local government officials, planners and developers in order to 1) demonstrate the significance of parking decisions in development patterns; 2) illustrate the environmental, financial and social impact of parking policies; 3) describe strategies for balancing parking with other community goals; 3) and provide case studies of places that are successfully using these strategies.



Smart Growth Resources cont.

 Promoting Public Health through Smart Growth- Building healthier communities through transportation and land use policies and practices

http://www.mayorswellnesscampaign.org/dev/images/stories/resources/employer/sqbc health%20report%20final.pdf

This report provides guidance for developing transportation and land use policies and practices that support public health objectives. It also offers general recommendations for how land use policies, investments and actions can help to achieve healthy communities.

Regional Plan Association (RPA)

http://www.rpa.org/

Regional Plan Association (RPA) is an independent, not-for-profit regional planning organization that improves the quality of life and the economic competitiveness of the 31-county New York-New Jersey-Connecticut region through research, planning, and advocacy. RPA's current work is aimed largely at implementing the ideas put forth in the Third Regional Plan, with efforts focused in five project areas: community design, open space, transportation, workforce and the economy, and housing

Smart Growth America

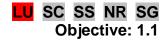
www.smartgrowthamerica.com/

Smart Growth America is a nationwide coalition promoting smart growth. This website offers good general information on smart growth, and information about federal legislative activity on issues related to smart growth, sustainable development, and environmental protection

Smart Growth Online

www.smartgrowth.org/

Developed and funded through a cooperative agreement between the US EPA and several non-profit and government organizations, this tool is designed to advance public understanding of smart growth and how growth can improve community livability. The Smart Growth Network works to encourage development that serves the economy, community and the environment.



Smart Growth Resources cont.

• Smart Growth Toolkit

http://www.mass.gov/envir/smart_growth_toolkit/index.html

Geared towards Massachusetts municipalities, but generally applicable Toolkit that provides easy access to information on twelve different planning, zoning and subdivision techniques that will make smart growth a reality in your community. The materials are designed to increase understanding of smart growth tools and how to customize the techniques to local circumstances. Website includes a good resources section on Model Bylaws.

• The Urban Land Institute (ULI)

http://www.uli.org

ULI facilitates the open exchange of ideas, information and experience among local, national and international industry leaders and policy makers dedicated to creating better places. The mission of the Urban Land Institute is to provide leadership in the responsible use of land and in creating and sustaining thriving communities worldwide.

Sustainable Communities Network

http://www.sustainable.org/

This mission of the Sustainable Communities Network (SCN) is to link citizens to resources and to one another to create healthy, vital and sustainable communities.



1.2 OBJECTIVE: Develop and implement environmental initiatives that improve housing quality and livability

❖ Livable Housing

Accessory Dwelling Unit (ADU)
 http://www.ci.santa-cruz.ca.us/pl/hcd/ADU/adu.html

The City of Santa Cruz has an Accessory Dwelling Unit (ADU) Development Program that is intended to:

- Implement the development of well-designed ADUs in Santa Cruz;
- Help minimize the impact of population growth on the community by providing more rental housing in the developed core of the City;
- Promote infill development to help preserve the surrounding natural greenbelt;
- Foster the use of public transportation within the City
- Zoning a neighborhood activity center http://www.town.wilmington.ma.us/old/NAC.pdf

Neighborhood Activity Center Overlay District (NACOD) encourages a mix of business, residential and civic uses in a compact, physical arrangement that is safe for pedestrian and vehicular traffic. They provide alternatives to conventional commercial sprawl, thereby assisting a town in creating and maintaining vibrant, walkable business areas. In addition, they encourage redevelopment of existing underutilized or obsolete properties and provide neighborhood centers with convenient access to goods, services and housing.

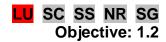
Live/Work Programs & Incentives

 NJ Close to Home Initiative http://www.ni.gov/dca/hmfa/consu/buyers/close/

Close to Home NJ provides incentives for residents to purchase homes close to work. Through HMFA, Close to Home provides residents with attractive mortgage loans, down payment assistance, or funding for the closing costs on a new home. Qualified employees benefit from competitive mortgage rates, while participating municipalities and employers benefit from having a committed workforce living nearby

- Transit Smart Program
- Live Where You Work Program

Employer-Assisted Housing Program



Live/Work Programs & Incentives cont.

• Location Efficient Mortgage Program http://www.locationefficiency.com/

The Location Efficient Mortgage (LEM) is an innovative mortgage product that takes advantage of the hidden asset of transit density in urban neighborhoods to encourage homeownership and promote increased transit ridership. The program, developed by Center for Neighborhood Technology (CNT), the Natural Resources Defense Council, and the Surface Transportation Policy Project, uses GIS analysis to identify homes with easy access to transit. With a LEM mortgage, lenders are allowed to recognize the savings made by a household whose primary means of transportation is public transit rather than the private automobile. Thus lenders can "stretch" their standard debt-to-income ratio, ensuring that more low- and moderate-income families, first-time homeowners, and dedicated transit users can obtain mortgages, or larger mortgages for which they would otherwise quality. Fannie Mae, the nation's largest supplier of homeownership capital, is sponsoring the underwriting of LEM mortgages.



1.3 OBJECTIVE: Develop and maintain a sufficient open space system that balances efforts to enhance biodiversity, natural preservation, and both passive and active recreation opportunities with commercial and residential development and redevelopment throughout the community

❖ Open Space and Public Green Space Resources

• Cluster Development

http://www.extension.umn.edu/distribution/naturalresources/components/7059 -01.html

Cluster development is the grouping of new developments on a portion of available land to reserve as open space. Implement zoning ordinances to encourage cluster development.

 Municipal Wetlands Mitigation: Citizens Guide to Wetlands and the New Jersey Wetland Rules

https://www.thewatershed.org/images/uploads/SBMWA wetland guide.pdf

The New Jersey Department of Environmental Protection adopted the Freshwater Wetlands Protection Act Rules in 1988 (revised in 2001). This regulates wetlands but does not guarantee protection. "Local officials cannot regulate wetlands but they can ensure that development plans maintain wetland buffers, minimize disturbances, and comment on wetland mitigation decisions. Towns can encourage conservation easements, prioritize and acquire open space, incorporate data on rare species and critical habitats into municipal Master Plans, and enact ordinances that are protective of sensitive environmental areas."

• Project for Public Spaces

http://www.pps.org/info/aboutpps/

Project for Public Spaces is a non-profit organization dedicated to creating and sustaining public spaces that build communities.



❖ Open Space and Public Green Space Resources cont.

Seattle's Green Factor www.seattle.gov/dpd/permits/greenfactor/

Seattle's Green Factor is a program intended to increase the amount and quality of urban landscaping in new development in Commercial Zones while providing flexibility for developers and designers to efficiently utilize their properties. When a new project is proposed for development in Seattle's commercially-zoned areas, applicants must demonstrate how they intend to meet the new landscaping requirement. An electronic worksheet is available for download at the Seattle Green Factor website. This tool helps applicants calculate their score. The worksheet keeps a running score so applicants can test different landscaping arrangements to meet the requirement. Applicants will submit the worksheet, a plan showing landscape areas, and a chart identifying planting areas and how the score was achieved.

Transfer of Development Rights (TDRs) http://www.nj.gov/dca/osg/resources/tdr/index.shtml

A Transfer of Development Rights Program preserves open space without hindering development or decreasing land values. Apply for up to \$40,000 of State TDR grants developed through the State Transfer of Development Rights Act and implement a Transfer of Development Rights Program as outlined by the New Jersey Office of Smart Growth.



1.4 OBJECTIVE: Promote adoption of "green" building and development practices in private projects (including appropriate consideration of aesthetics, design opportunities and community standards)

Green Building Resources

 Global Green: Green Building Resource Center http://www.globalgreen.org/gbrc/index.htm

A partnership between Global Green USA and the City of Santa Monica, the Green Building Resource Center is stocked with samples of the most popular environmentally friendly building materials and provides free design advice and information about green building strategies.

 US Green Building Council- LEED http://www.usgbc.org/

The U.S. Green Building Council (USGBC) is the nation's foremost coalition of leaders from every sector of the building industry working to promote buildings that are environmentally-responsible, profitable and healthy places to live and work. Our more than 9,000 member organizations and our network of 75 regional chapters are united to advance our mission of transforming the building industry to sustainability.

Green Building Ordinances & Incentives

 LEED Initiatives in Government & Schools https://www.usgbc.org/ShowFile.aspx?DocumentID=691

The US Green Building Council publishes a list of the most current Federal, State, Municipal/City/County LEED Green Building Initiatives as well as programs and initiatives among Higher Education and K-12 Schools.

• The King County/Seattle Built Green™ Incentive http://www.builtgreen.net/incentive.html

The King County/Seattle Built Green™ Incentive provides funding for single-family residential, town home and community development projects to help offset the cost of certifying and designing innovative projects that meet green-building standards. The program provides \$2,500 to \$15,000

in financial incentives depending on the project and level of environmentally sustainable design and building elements employed.

SC SS NR SG Objective: 1.4

National Green Home Building and Remodeling Guidelines & Programs (* Programs marked with an asterisk also certify new green homes. GH-Green Homes Guide; GR: Green Remodeling Guide; GD: Green Directory)

• EarthCraft House Guidelines* [GH]

http://www.southface.org/web/earthcraft_house/ech_main/ech_quidelines.htm

This Georgia-based organization offers a green building checklist & certification.

Energy Star Qualified Home* [GH, GR, GD]
 http://www.energystar.gov/index.cfm?c=bldrs_lenders_raters.nh_features

ENERGY STAR qualified homes are at least 15 percent more energy efficient than homes built to the 2004 International Residential Code (IRC). Any home three stories or less can earn the ENERGY STAR label if it has been verified to meet EPA's guidelines for energy efficiency.

Energy Star Indoor Air Package Labels* [GH, GR, GD]
 http://www.energystar.gov/index.cfm?c=bldrs_lenders_raters.nh_i
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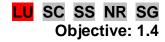
These specifications from the U.S. EPA focus on improving indoor air quality and health. A related pilot program certifies houses that meet requirements.

Environments for Living [GH]
 http://www.eflhome.com/index.jsp?action=fl_goldlist

This comprehensive green checklist developed by a large national contractor services company focuses on energy efficiency, comfort, health and environmental stewardship.

• **Green Point Rated Home*** [GH, GR, GD] http://www.builditgreen.org/index.cfm?fuseaction=greenpoint

GreenPoint Rated is a program of <u>Build It Green</u>-a professional non-profit membership organization whose mission is to promote healthy, energy- and resource-efficient buildings in California. The GreenPoint Rated Program is a scorecard for new green home construction.



❖ National Green Home Building and Remodeling Guidelines & Programs

 LEED for Homes* [GH, GD] http://www.usgbc.org/DisplayPage.aspx?CMSPageID=147

The U.S. Green Building Council offers a checklist of residential structures less than four stories (LEED-H). A certification programs is in the pilot stage.

National Association of Home Builders (NAAHB) [GH]
 http://www.nahb.org/publication_details.aspx?publicationID=1994§ionID=155

Industry-developed checklist provides details on green construction practices.

- * Regional Green Home Building and Remodeling Programs & Guidelines

 (* Programs marked with an asterisk also certify green homes. GH-Green Homes
 Guide; GR: Green Remodeling Guide; GD: Green Directory) Note: **Only
 Minnesota & Boulder, CO. offer a Certifiable Green Remodeling Program)
 - Arizona
 - Scottsdale Green Building Program* [GH, GR]
 http://www.scottsdaleaz.gov/greenbuilding/
 Provides Green Home Building and Remodeling Guidebook and Tips
 - California
 - o Green Building in Alameda County [GH, GR, GD]

 http://www.stopwaste.org/home/index.asp?page=269

 Provides Green Home Building and Remodeling Guidelines and an AccessGreen Directory

 http://www.stopwaste.org/home/index.asp?page=27

 The database, hosted by Build It Green, is searchable in three ways:

 Product Category, Green Building Guidelines Reference, and Keyword.



* Regional Green Home Building and Remodeling Programs & Guidelines

Colorado

Built Green Colorado* [GH, GD]
 http://www.builtgreen.org/default.htm

Provides a Built Green Checklist for new home construction and directory.

Boulder Green Points Program** [GH, GR, GD]
 http://www.ci.boulder.co.us/index.php?option=com_content&task=view&id=208&Itemid=489

This program offers remodelers, do-it-yourselfers and home buyers green ideas while allowing them flexibility to tailor their selections to specific green designs or preferences. The Green Points Program applies to all new residential construction, and additions and remodels larger than 500 square feet.

Michigan

Green Built Michigan* [GH, GR, GD]
 http://www.greenbuiltmichigan.org/Home/tabid/36/Default.aspx

Program offers Green Built Guidelines for New Homes, Tips for Green Remodeling and a Green Resources Directory.

Minnesota

Minnesota Green Remodeling Program** [GR]
 http://www.mngreenremodeling.com/

The unique strength of this remodeling program is in the system of project verification and certification. A project that is registered with the program and is shown to meet its requirements through verification during design and construction will be certified as a Minnesota Green Homes Remodel. Green Remodeling: Tips for Minnesota Homeowners http://www.pca.state.mn.us/oea/publications/greenremodeling.pdf

* Regional Green Home Building and Remodeling Programs & Guidelines

- North Carolina [GH, GD]
 - Western Carolina Healthy Built Homes*
 http://www.wncgbc.org/healthybuilt/index.php

HealthyBuilt Homes is targeted at small to medium sized home builders who may not have the resources to compete with larger builders in the rapidly emerging field of green building. This program offers a recognized green certification, technical and marketing assistance, design reviews, workshops, and field consultation services.

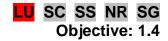
Vermont

Vermont Builds Greener* [GH, GD] http://www.bsr-vt.org/vbg/

The Vermont Builds Greener (VBG) Program, an initiative of Building for Social Responsibility (BSR), certifies residential buildings that are constructed to sustainable criteria. The Vermont Builds Greener Scorecard is the intellectual property of Building for Social Responsibility (BSR) and is propriety information. Any use or reproduction of the Scorecard without the expressed written permission of BSR is forbidden.

- Virginia (Arlington)
 - o **Green Home Choice*** [GH, GD] http://www.arlingtonva.us/Departments/EnvironmentalServices/epo/EnvironmentalServicesEpoGreenHomeChoice.aspx

The program provides a listing of building techniques and components that result in a more efficient and healthy home and is based on the EarthCraft House program. Builders who participate in the program are offered front-of-the-line plan review, lawn signs indicating participation in the program, attendance at County-sponsored seminars, and recognition as "green" builders. In addition the program provides a *Green Home Choice's Green Home Building and Remodeling Resource Directory* http://www.arlingtonenvironment.org/greenchallenge/green_directory.pdf



* Regional Green Home Building and Remodeling Programs & Guidelines

- Washington State
 - Built Green Washington*
 http://www.builtgreenwashington.org/

BUILT GREEN Washington is a cooperative of Washington's regional green home building programs. Most BUILT GREEN programs in Washington use a Checklist that offers builders a menu of green building strategies with point values attributed to them.

 Seattle's Green Home Remodel Guides <u>www.seattle.gov/dclu/greenbuilding/singlefamilyresidential/resources/remodelingguides/</u>

This growing series covers a range of issue areas, such as advice for hiring design and building professionals, incorporating salvaged materials in your renovation project, and choosing paint to protect air quality.

Green Home Building & Remodeling Workshops

(*Programs marked with an asterisk also certify students)

 Green Building Institute's Introduction to Green Home Renovation Program

http://www.greenbuildinginstitute.org/pages/courses/green_renovations.html

This workshop establishes a foundation for understanding green home renovations through instructions of the basics and through a workshop using case studies to understand real life approaches to developing real life solutions. Participants will take home a basic understanding of how to approach and execute a green renovation of different types of projects from simple interior modifications to more elaborate structural modifications.

 National Association of the Remodeling Industry (NARI) – Green Education Program * www.nari.org

The Green Education Program will consist of 16 topics related to green and sustainable remodeling. The program will run from 8-12 weeks with a 2-hour internet class weekly. Participants will then be able to take an exam and become certified as a NARI Certified Residential Green Professional.



Green Home Building & Remodeling Workshops

(*Programs marked with an asterisk also certify students)

Seattle's Home Remodeling Classes

http://www.seattle.gov/dpd/GreenBuilding/SingleFamilyResidential/Overview/DPDS_007575.asp

Seattle provides residents free "green home remodeling classes" at local Whole Foods Markets, Libraries and other community centers hosted by local green remodeling experts. Residents are also kept informed through the Renovation Nation Newsletter.

❖ Green Home Remodeling Books

David Johnson & Kim Master (2004) <u>Green Remodeling: Changing the World One Room at a Time</u>. New Society Publishers.

Green Remodeling is a comprehensive guide to green remodeling that addresses all climates. It first points out the advantages of remodeling. The book then discusses simple green renovation solutions for homeowners, focusing on key aspects of the building including foundations, framing, plumbing, windows, heating and finishes. Room by room, it outlines the intricate connections that make the house work as a system. Then, in an easy-to-read format complete with checklists, personal stories, expert insights and an extensive resource list, it covers easy ways to save energy, conserve natural resources, and protect the health of loved ones.

Alex Wilson & Mark Piepkorn. (2006) <u>Green Building Products: The GreenSpec Guide to Residential Building Materials</u> Co-published by BuildingGreen, Inc. and New Society Publishers. https://www.buildinggreen.com/ecommerce/gs.cfm

A comprehensive directory of green building products for home building and remodeling featuring nearly 1,600 descriptive listings for products from agrifiber panels to zero-VOC paints. All phases of residential construction are covered, from sitework to flooring to renewable energy. Products are grouped

by function, and each chapter begins with a discussion of key environmental considerations and what to look for in a green product.

SC SS NR SG Objective: 1.4

❖ Green Home Remodeling Books

 Alex Wilson. (2007) <u>Your Green Home: A Guide to planning a Healthy,</u> <u>Environmentally Friendly Home.</u> New Society Publishers

The 256-page book walks prospective homeowners through a wide range of options and actions for designing and building a green home. It contains over 110 illustrations and includes practical advice on key homebuilding decisions.

❖ Green Remodeling Resources: Websites, Online Magazines & Tips

- Natural Home Magazine
 http://www.naturalhomemagazine.com/
- National Geographic Green Home Makeover Web-Guide http://www.thegreenguide.com/green_home/
- Rocky Mountain Institute Home Energy Briefs
 http://www.rmi.org/sitepages/pid171.php#LibHshldEnEff
- Sustainable Spaces
 http://www.sustainablespaces.com/services-testing.html

Sustainable Spaces is a team of experts who diagnose problems and then make suggestions on the appropriate green solutions to be implemented. Team offers a "Green Up" building services which comprises a three hour test and a comprehensive report that deals with the issues you or your customer might have with a home.

SUSTAINABLE CIRCULATION (SC) Reference Compendium

LU SC SS NR SG Objective: 2.1

GOAL 2: SUSTAINBLE CIRCULATION

2.1 OBJECTIVE: Develop and implement efforts that decrease motor vehicle use and increase access to and convenience of alternative transportation options

Car Sharing Services

Carsharing.Net

http://www.carsharing.net/

CarSharing.net is run as a non-profit educational and promotional site, supporting the Car Sharing Industry in North America. This site does NOT own or operate car sharing services in any city but provides information on different car sharing services throughout the nation.

Flexcar

http://www.flexcar.com/

Flexcar is a car sharing program that allows members to reserve and drive a car whenever they want. While exact prices vary from city to city the typical Flexcar member is charged a \$35 application fee, \$40 annual membership fee, and usage is charged at \$9/hour, which includes unlimited miles.

PhillyCarShare

http://www.phillycarshare.org/html/vision mission.htm

In 2004, the City of Philadelphia joined PhillyCarShare, becoming the first government worldwide to share cars with local residents in a major fleet reduction effort. The pioneering project has helped eliminate over 330 municipal vehicles, saving Philadelphia taxpayers \$2 million annually.

Zip Car

http://www.zipcar.com/

Zipcar is a for-profit, membership-based carsharing company providing automobile rental to its members, billable by the hour or day.

❖ Bus Rapid Transit (BRT)

 Bus Rapid Transit 101: Center for Transportation Excellence http://www.cfte.org/trends/brt.asp

The Center for Transportation Excellence (CTE) website does a good job of presenting the lasts information on Bus Rapid Transit. The site offers definitions, characteristics, provides links and offers a host of question for communities to ask about how BRT can meet their transportation needs.

Reconnecting America
 http://www.reconnectingamerica.org/public/practices

Reconnecting America is a national non-profit organization devoted to promoting best practices in transit-oriented-development (TOD). The Center is a joint efforts with the Center for Neighborhood Technology & Strategic Economics designed to serve as a national clearinghouse, to help develop TOD standards and performance measurements, and to provide research support and technical assistance.

 Bus Rapid Transit Case Studies available for download: Levinson, Herbert (2003) Case Studies in Bus Rapid Transit, TCRP Report 90: Bus Rapid Transit, Volume 1.

Levinson, Herbert (2003) *Implementation Guidelines,* TCRP Report 90: Bus Rapid Transit, Volume 2.

LU SC SS NR SG Objective: 2.2

2.2 OBJECTIVE: Develop and implement initiatives that improve access to and safety for pedestrian and bicycle circulation.

❖ Pedestrian & Bike Friendly Community Design

 Active Living Resource Center Library http://www.activelivingresources.org/library.php

The Active Living Resource Center (ALRC) is an online resource designed to help citizens take charge in their neighborhoods and make them more physically active by making them more bicycle and pedestrian friendly. The ALRC Library provides dozens of resources that support this goal. Resources are grouped under the following topics:

- Biking & Walking,
- Healthier Children,
- Your Community,
- Safe Routes to School, and
- Build Your Team
- Building Livable Communities with Transit: Planning, Developing and Implementing Community-Sensitive Transit (FTA August 2006)
 http://safety.fhwa.dot.gov/ped_bike/docs/livable.pdf

The Federal Transit Administration (FTA), through its Livable Communities Initiative (LCI), issued this manual to help local governments; transit agencies and transit planners address community concerns as they

 Communities in Motion- Mayors Wellness Campaign http://www.mayorswellnesscampaign.org/dev/index.php

The Mayors Wellness Campaign (MWC) website provides a toolbox designed to help communities promote wellness through planning & design of the built environment and through programs that encourage physical activity and healthy lifestyles. The toolbox includes information and resources on: 1) Street Design for Walking and Biking: 2) Traffic Calming 3) Land Use Planning for Pedestrians 4) Walkability Assessments 5) Municipal Walking Maps 6) Bike Paths & Facilities and 7) Community Programs & Challenges

LU SC SS NR SG Objective: 2.2

❖ Pedestrian & Bike Friendly Community Design cont.

NJ Community Walkability Audit Rating Scale
 http://www.njbikeped.org/docslib/NJ_Community_Walkability_Audit_and_Form.pdf

The New Jersey Community Walkability Audit Rating Scale is a tool to assist NJ communities in improving their pedestrian realm. It is intended for use in the field y community members, and is designed to help familiarize community members with the walkability of their community, to identify impediments to pedestrian movement, and to prioritize desired improvements in the pedestrian environment.

 Measuring Network Connectivity for Bicycling and Walking http://www.enhancements.org/download/trb/trb2004/TRB2004-001550.pdf

Dill, Jennifer, "Measuring Network Connectivity for Bicycling and Walking," *TRB 2004 Annual Meeting CD-ROM*, 2004. There are a variety of metrics that can characterize connectivity, such as density of intersections, block size, number of 3- and 4-way intersections and cul-de-sacs, and route directness. This report provides a good review of techniques available to measure connectivity.

Ped Shed (Pedestrian Shed) http://pedshed.net/

Ped shed is short for *pedestrian shed*, the basic building block of walkable neighborhoods. The Ped Shed blog is focused on walkable urban design and sustainable placemaking. It's a repository for essays, editorials and presentations that support new urban design practices and principles. It's a place to collect some thoughts about sustainability and its intersection with urban design. And it's a place for material that's simply inspiring. The goal of the Ped Shed blog is to be useful as a reference source as well as an opportunity for both writers and readers to learn about making walkable places.

• Pedestrian and Bicycle Information Center

http://www.bicyclinginfo.org/pp/exemplary.htm

This site provides a list of exemplary bicycle and pedestrian plans.

LU SC SS NR SG Objective: 2.2

❖ Pedestrian & Bike Friendly Community Design cont.

Safe Route to Schools Program http://www.state.nj.us/transportation/community/srts/

The goal of New Jersey's Safe Routes to School Program is to assist New Jersey communities in developing and implementing projects and programs that encourage walking and bicycling to school while enhancing the safety of these trips.

❖ Township Bicycle Sharing / Repair Programs

 The New Brunswick Bike Library-Bicycle Recycling Shop http://web.mac.com/folkengineering/iWeb/TheBikeLibrary/home.html

The Bike Library is a not-for-profit, bicycling repair shop. They function as a member-run bicycle tool collective- a space equipped with a complete bicycle tool set, used frames and parts, workspace, and volunteers. They promote bicycle transportation by:

- Building recycled bikes to be sold to the community for reasonable prices;
- Providing space and offering help and instructions to those that wish to learn, hands on, about repairing and maintaining bicycles;
- Offer short-term bike loans to members.

Community Bicycle Programs

http://www.ibike.org/encouragement/bike-day.htm

This site offers suggestions on how to encourage bicycling in your community and how to organize "Bike to Work Days" and other promotional events.

❖ Traffic Calming

TrafficCalming.org

http://www.trafficcalming.org/index.html

This site serves as a practical guide to traffic calming and neighborhood traffic management, including:

- International and US history
- A toolbox of calming devices
- Measured results from traffic calming
- Current programs around the world

Institute of Transportation Engineers-Traffic Calming for Communities

http://www.ite.org/traffic/tcdevices.htm

This site offers a series of fact sheets providing an overview of several traffic calming measures. The Library section contains a searchable database of reports, articles and other documents related to traffic calming.

• Neighborhood Street Design Guidelines: An Oregon Guide for Reducing Street Widths. (November 200).

http://www.state.nj.us/transportation/works/njfit/links/pdf/neighstreet.pdf

This workbook style handbook recommends a process for development of street standards, provides important information to help communities consider how to decide on a standard, and includes model street designs.

NJ FIT: Future in Transportation- Toolkit

http://www.state.nj.us/transportation/works/njfit/toolbox/efficiency.shtm

The NJFIT toolbox includes an array of techniques, many of which have been used by NJDOT and other transportation agencies for some time. What is new under NJFIT is the emphasis on combining these tools in new and different ways, and working together in partnerships on new fronts to achieve the real potential of these tools. NJFIT recommends the following prescriptions to address today's transportation challenges—

encompassing traditional capacity improvements and innovative techniques, with a focus on education and communication:

LU SC SS NR SG Objective: 2.3

2.3 OBJECTIVE: Develop and implement strategies to reduce motor vehicle emissions

❖ Commute Trip Reduction

 Best Workplaces for Commuters http://www.bwc.gov/employ/benefits.htm

Best Workplaces for CommutersSM is an innovative, voluntary business-government program that distinguishes and provides national recognition to employers offering outstanding commuter benefits such as free or low cost bus passes, strong telework programs, carpooling matching and vanpool subsidies. The site provides case studies and resources on creating commute reduction programs from carpooling to parking cash out programs

 EPA's COMMUTER Model: Examining the Benefits of Transportation and Air Quality Programs Focused on Commuting. http://www.epa.gov/otag/stateresources/policy/pag_transp.htm#cp

This link provides guidance on quantifying the emissions benefits of strategies to reduce solo commuting, such as EPA's Best Workplaces for Commuters, when the program successfully reduces pollution from vehicle sources.

 Public Transportation Partnership for Tomorrow http://www.apta.com/services/pt_task_force/index.cfm

Public Transportation: Wherever Life Takes You" is a nationwide education and outreach campaign designed to strengthen support for public transportation among the public and local, state and federal officials

❖ Green Fleets

• The Clean Fleet Guide http://www.eere.energy.gov/fleetguide

The Clean Fleet Guide features tools to help fleets make "green" vehicle and fuel decisions including specifications on available alternative fuel and advanced technology vehicles, tools to perform cost analyses based on

specific locations, and information on other technologies that can help improve fuel economy.

 Model Low Emissions Vehicles Ordinance http://www.airquality.org/modelord/EpisodicModelLEFleetV10.pdf

> LU SC SS NR SG Objective: 2.3

❖ Green Fleets cont.

 Model Green Fleet Policy Ordinance from ICLEI's Greenfleets Web site http://www.greenfleets.org/MakeltOfficial.html#Write%20Your%20Own http://www.cleanaircounts.org/content/GreenFleetPolicy Ordinance.pdf

❖ Alternative & Clean Fuels

• The Alternative Fuels Data Center (AFDC) http://www.eere.energy.gov/afdc/

The Alternative Fuels Data Center (AFDC) is an online collection of data, including more than 3000 documents and several interactive tools covering the topics of alternative transportation fuels, alternative fuel vehicles, hybrid electric vehicles, idle reduction technologies, fuel blends, and fuel economy.

 The National Biodiesel Board (NBB) http://www.biodiesel.org/

The National Biodiesel Board (NBB) is the national trade association representing the biodiesel industry as the coordinating body for research and development in the United States.

* Resources for Reducing Vehicle Emissions

 It All Adds Up to Cleaner Air -Clean Air and Transportation Resources from the U.S. Department of Transportation http://www.italladdsup.gov/index.html

It All Adds Up to Cleaner Air is a unique public education and partnership-building initiative developed collaboratively by several federal agencies to help regional, state, and community efforts to reduce traffic congestion and air pollution. It All Adds Up seeks to inform people about the connections among their transportation choices, traffic congestion, and air pollution by emphasizing simple, convenient actions they can take to improve air quality and reduce congestion.

• Tips for Cutting Global Warming Pollution – Car Tips http://www.environmentaldefense.org/page.cfm?tagid=1142

Environmental Defense provides tips on how to reduce emissions with the car you already own.

LU SC SS NR SG Objective: 2.3

* Resources for Reducing Vehicle Emissions cont.

 Travel Matters' Transit Planning Emissions Calculator http://www.travelmatters.org

Quantify the impact of transit decisions on global warming pollution. This site provides an online tool for measuring the emissions impact of making transit buses more fuel efficient.

 Win-Win Transportation Emission Reduction Strategies http://www.vtpi.org/wwclimate.pdf

This paper by Todd Litman from the Victoria Transport Policy Institute (2007) discusses the Win-Win Concept and describes Win-Win Strategies that solve transportation problems by improving mobility options and removing market distortions that cause excessive motor vehicle travel.

❖ Transit Signal Priority Systems

 Transit Signal Priority (TSP) Handbook and Implementation Guide http://www.itsa.org/itsa/files/pdf/TSPHandbook2005.pdf

Transit Signal Priority (TSP) is a tool that can be used to help make transit service more reliable, faster, and more cost effective. TSP has little impact on general traffic and is an inexpensive way to make transit more competitive with the automobile. Transit signal priority systems use sensors to detect approaching transit vehicles and alter signal timings to improve transit performance. For example, some systems extend the duration of green signals for public transportation vehicles when necessary.

Sustainable Society SS Reference Compendium



GOAL 3: SUSTAINBALE SOCIETY

3.1 OBJECTIVE: Develop and implement initiatives to educate the community about the movement towards sustainability

❖ Sustainability Education

One Day Vancouver's Online Guides to Sustainability

Work: http://www.onedayvancouver.ca/take_action.php?itemId=97
Home: http://www.onedayvancouver.ca/take_action.php?itemId=97

One Day Vancouver, the community engagement process for the City of Vancouver, developed online guides to involve residents in sustainable practices while at work or at home. The guides offer simple solutions for residents, such as how to test for drafts in your home to reduce energy use, and using window shades to reduce energy use at work.

Cool New Jersey Handbook

http://www.coolnewjersey.org/files/handbook.pdf

The Building Cool Communities: A Toolbox for Activists and Policymakers by Cool New Jersey is a handbook for municipalities seeking guidance in sustainability practices. Topics covered include: Climate Friendly Environment, Transportation Alternatives, Motor Vehicles and Traffic Management, Energy Management, Carbon Sequestration, Resource Management, and Education.

Sustainability Curriculum in Schools

http://www.state.nj.us/dep/seeds/links.htm http://santa-monica.org/epd/environmental_links.htm

The State Environmental Education Directory (SEEDS), of the New Jersey Department of Environmental Protection, offers a vast amount of environmental education in the state of New Jersey, including field trips, in-class presentations, and classroom materials for teachers to implement in the classroom. The City of Santa Monica website provides a full list of environmental education links to aid teachers.

Sustainable Development Business Program

www.genesisfarm.org/sbnetworkrv.htm http://www.livingeconomies.org/

Sustainable Business Network of the Ridge and Valley is a sustainable business group committed to building a "local living economy" in New Jersey. Living economy communities produce and exchange products.

LU SC SS NR SG Objective 3.1

3.2 OBJECTIVE: Develop and implement environmental strategies that promote responsibility and stewardship in WWT by enabling citizens from different ages and economic groups to live in WWT through every stage of their lives, while being sensitive to and taking advantage of the strengths of the ethnic, age, and economic diversity of residents

Community Sustainability Programs

Adopt-a-Spot Program

http://www.belmar.com/Default.asp?Section ID=609

Belmar, New Jersey's Adopt-A-Spot Program webpage provides guidelines on how to keep your community clean through an Adopt-A-Spot Program, after a Program has been implemented by a municipality. Once an area has been adopted volunteers make a one year commitment to ensure that area is kept clean and free of litter.

• Community (flower/butterfly/hummingbird) Gardens

http://www.njaudubon.org/education/backyardhabitat/butterhummgarden.html http://www.gardensites.info/states/nj.htm

The New Jersey Audubon Society provides the How to Create a Butterfly and Hummingbird Garden Guide, with tips and suggestions on starting and maintaining a butterfly and hummingbird garden. For more information on community gardens, visit the New Jersey Community Gardens website to access a full list of community gardens in the state of New Jersey.

A Viable Futures Toolkit

http://www.viablefuturestoolkit.org/toolkit_tab.htm

The Viable Futures Toolkit is a comprehensive, user-friendly resource that turns the challenges of an aging population into opportunities for all ages to thrive. It offers guidance to planners, policymakers, service providers, and funders about how to create solutions for older generations that simultaneously address needs of younger generations and their communities.



3.3 OBJECTIVE: Develop and implement efforts to maintain community safety and order to prevent improper or unlawful degradation of community resources

❖ Neighborhood Watch Group

• Form Neighborhood Watch Groups
http://www.ncpc.org/cms/cms-upload/ncpc/files/nwstart.pdf

A neighborhood watch group is one of the most effective and least costly answers to crime. This National Crime Prevention Council guide outlines how to form a group and get started, with tips for a successful program.



3.5 OBJECTIVE: Develop and implement programs to support the health and fitness of West Windsor Residents by promoting healthy and sustainable recreational activities and lifestyle choices

Farmers Market Programs

• Farmers Market Education Program
http://santa-monica.org/epd/residents/Education/farmers.htm
http://www.smmusd.org/depts/food/farmers_market.html

The Farmers' Market program in Santa Monica is used as an alternative lunch program for children in local schools and integrates nutrition, health, physical education, and the environment into classroom curriculum.

❖ Mayor's Wellness Campaign

 Mayor's Wellness Campaign: Communities in Motion http://www.mayorswellnesscampaign.org/dev/index.php?option=com_content&t ask=view&id=207&Itemid=203

The Mayor's Wellness Campaign promotes active living in communities to improve the health of residents and reduce New Jersey health care costs. The Communities in Motion "Toolbox" provides tools for municipalities to promote wellness through programs that encourage active living and healthy lifestyles.

Sustainable Natural Resources NR Reference Compendium

GOAL 4: SUSTAINABLE NATURAL RESOURCES

4.1 OBJECTIVE: Develop and implement initiatives to improve air quality

Air Quality Monitoring

Rider University Air Quality Monitoring Station
 http://www.airnow.gov/index.cfm?action=airnow.showlocal&CityID=209

Rider University provides air quality conditions and forecasts on Particulate Matter (PM 2.5) and Ozone. Information is posted on the EPA's AirNow website which provides the public with easy access to national air quality information. The Web site offers daily AQI forecasts as well as real-time AQI conditions for over 300 cities across the US, and provides links to more detailed State and local air quality Web sites.

❖ Tips to Reduce Vehicle Emissions

• Tips for cutting Global Warming Pollution from cars http://www.environmentaldefense.org/page.cfm?tagid=1142

Environmental Defense provides tips to reduce emission while on the road, on car maintenance and trip reduction suggestions.

• Gas Mileage Tips http://www.fueleconomy.gov/feg/drive.shtml

The Department of Energy provides tips on how to drive more efficiently, to keep your car in shape, to plan and combine trips, to choose a more efficient vehicle.

Air Quality Education Resources

 Energy Star Steps You Can Take to Reduce Air Pollution http://www.energystar.gov/index.cfm?c=news.nr_psa
 Energy Star provides 5 easy steps that individuals can take to reduce air pollution from changing 5 light bulbs in your house to driving more efficiently.

LU SC SS NR SG Objective: 4.1

❖ Wood Smoke Emissions

 Clean Burning Woodstoves and Fireplaces http://www.epa.gov/woodstoves/

The EPA provides basic information on how to select a cleaner burning hearth for your home as well as information on woodstove change out programs and wood burning safety and efficiency tips.

Radon Testing

 NJ DEP Radon Protection Program http://www.njradon.org/

The NJ DEP Radon Section provides general information on radon including links to Radon Testing & Mitigation Businesses and information on radon outreach programs.

❖ Green Cleaning Practices [B, I, R]

(See also RC 5.1 Green Cleaning Practices [G])

• Green Home Cleaning Tips

http://www.newdream.org/newsletter/greencleaning.php

"Greening the Cleaning"

http://www.dienviro.com/index1.aspx?BD=17793

The Deirdre Imus Environmental Center in Hackensack, New Jersey provides information on their "Greening the Cleaning" Program and information on green home and institutional cleaning products.

Green Seal Certified Products

http://www.greenseal.org/findaproduct/index.cfm

Website provides a list of Green Seal Certified cleaning products.

• Healthy Homes and Garden Cleaning Tips http://www.watoxics.org/homes-and-gardens/cleaning-products

The Washington Toxics Coalition provides information on safe cleaning products and guides to purchasing and disposing of cleaning products.

LU SC SS NR SG Objective: 4.1

Green Cleaning cont.

 Detox Your Home Guide- Easy Steps you can take for a Safer & Healthier Home.

http://www.tec.org.au/dev/safersolutions/index.php?option=com_docman&tas k=doc_download&gid=5

This guide published by Total Environment Centre in Sydney, Australia provides a concise, graphic-rich pamphlet with tips on how to detox your home and how to keep children safe from potential "sick" areas in the home. The guide focuses on: Living areas, Kitchen & Bathrooms, Renovations, Garden, & Garage.

Seventh Generation

http://www.seventhgen.com/living_green/toxic_cleaning/cleaning_tips.html

Seventh Generation is the nation's leading brand of non-toxic and environmentally safe household products. Their website provides information on tips for living green and non-toxic cleaning.

4.2 OBJECTIVE: Develop and implement strategies that reduce energy consumption and that are consistent with West Windsor Township's commitment to the US Mayor's Climate Protection Agreement.

❖ Energy Efficiency Programs & Resources

 Burlington's 10% Challenge http://www.10percentchallenge.org/

Burlington's 10% Challenge is a program to encourage individuals, households, and businesses to reduce greenhouse gas emissions and to educate communities in and around Vermont on the threat of global climate change to the environment and the economy. The program's goal is to reduce greenhouse gases by 10% below 1997 emissions levels by 2010.

• Community Energy Opportunity Finder 2.0 http://www.energyfinder.org/

The Rocky Mountain Institute's Energy Finder is an interactive, web-based tool that enables communities to explore untapped opportunities for economic development, pollution prevention, and risk reduction through energy efficiency. It helps any community estimate these benefits and provides details to get them started on their own energy projects

 Energy Savers: Tips on Saving Energy & Money http://www.njcleanenergy.com/media/energy_savers.pdf

This booklet produced by the US Department of Energy highlights things that residents can do to reduce energy at home and on the road.

 Energy Star Program http://www.energystar.gov/

The Energy Star® program is a federally-backed program aimed at helping individuals and businesses adopt energy efficient products and practices. The program provides guidelines, tools, and resources for energy efficiency measures that are not only good for the environment but make good business

sense. Municipalities can work with businesses to promote participation and provide incentives for energy efficiency.

LU SC SS NR SG Objective: 4.2

Energy Efficiency Programs & Resources cont.

Energy Star Home Program
 http://www.energystar.gov/index.cfm?c=home_improvement.hm_improvement
 t index

Making your home more energy efficient with ENERGY STAR can help to reduce high energy bills and improve comfort. Energy Star provides steps to improve existing homes and guidance on purchasing new energy star rated homes.

 New Jersey for Energy Star http://www.njcleanenergy.com/html/1residential/3_nj4es_z_select.php

Search by retailer, city or zip code to find a New Jersey retailer near you that offers ENERGY STAR qualified appliances, lighting and window products

 New Jersey's Clean Energy Program- Residential Resources http://www.njcleanenergy.com/html/1residential/winter/index.php

The NJ Clean Energy Program website provides a wealth of information for New Jersey residents on everything from available rebates on high efficiency appliances to home energy audits to hands-on Power Tips and tools.

 Winter Energy Savings Tips http://njcleanenergy.tkco.biz/support/scripts/document.php?id=52

This document provides homeowners with tips on how to reduce energy costs and weatherize their homes during cold winter months.

❖ Green Roofs

 American Hydrotech, Inc. http://www.hydrotechusa.com/garden-roof.htm

American Hydrotech, Inc. is located in Chicago, Illinois with East Coast Sales Reps. Hydrotech is a global leader in the development of waterproofing and

roofing technology, and is considered a single source supplier of greenroof systems. They are associated with ZinCo GmbH of Germany, their partner in the development of the Garden Roof™ Assembly.

LU SC SS NR SG Objective: 4.2

❖ Green Roofs cont.

Barret Company www.barrettroofs.com

The Barret Company located in Millington, NJ offers the Green Roof-Roofscape System, utilizing German Technology.

• Design Guideline for Green Roofs

http://egov.cityofchicago.org/webportal/COCWebPortal/COC_ATTACH/design_quidelines_for_green_roofs.pdf

This article provides an introduction to green roof infrastructure and describes how to implement and market a green roof, looks at costs, and presents three case studies.

• The GreenGrid System

www.greengridroofs.com

The GreenGrid System is an innovative, high-performance green roof technology that can boost a building's bottom line and attractiveness. GreenGrid offers a distinct advantage over more conventional "built-in-place" green roofs because of its simplicity and modular features. The flexible GreenGrid roofing system is ideal for both new and existing buildings.

Greenroofs.com

www.greenroofs.com

The green roof industry resource portal offers basic information, product and service directory, and research links.

Penn State Center for Green Roof Research

http://hortweb.cas.psu.edu/research/greenroofcenter

Center's mission is to demonstrate and promote green roof research, education and technology transfer in the Northeastern United States.

Green Roofs cont.

Roofscapes, Inc.

http://www.roofmeadow.com

Roofscapes, Inc. is located in Philadelphia, Pennsylvania. Roofscapes, Inc. develops green roof projects throughout the United States, offering the Roofmeadow family of green roofs. These are light-weight, low-maintenance vegetated roof covers that are ideal for retrofit installations on existing buildings or for new buildings that can accommodate only small increases in dead load.

Landscaping to Reduce Heat Island Effect

Evergreen

http://www.evergreen.ca/en/lg/lg-resources.html

Evergreen is an innovative charity that explores the relationship between nature, culture and community in urban spaces. The website provides toolkits, planning and design guidance, policy, case studies, research and curriculum for landscaping school grounds, public lands, and home green spaces.

❖ Reflective Roofs

Energy Star Reflective Roofs

http://www.energystar.gov/index.cfm?c=roof prods.pr roof products

ENERGY STAR qualified roof products reflect more of the sun's rays. This can lower roof surface temperature by up to 100F, decreasing the amount of heat transferred into a building. Energy Star roofs can help reduce the amount of air conditioning needed in buildings, and can reduce peak cooling demand by 10–15 percent.

Heat Island Group

http://eetd.lbl.gov/HeatIsland/graphic.html

Heat Island research is conducted to find, analyze, and implement solutions to the summer warming trends occurring in urban areas, the so-called 'heat island' effect. We currently concentrate on the study and development of more reflective surfaces for roadways and buildings

LU SC SS NR SG Objective: 4.2

❖ Reflective Roofs cont.

Philadelphia Cool Homes Program
 http://www.ecasavesenergy.org/ses/whiteroof.html

The goal of the Cool Homes Program is to reduce indoor air temperatures to comfortable levels without increasing the occupants' energy bills by maximizing passive cooling and ventilation and minimizing mechanical cooling. The treatments start with a white, acrylic elastomeric roof coating. ECA adds insulation, air sealing, and other cooling measures.

4.3 OBJECTIVE: Develop and implement strategies that utilize renewable energy sources and encourage the development and use of renewable energy technologies and green power

* Renewable Energy & Green Power

Database of Incentives for Renewables & Efficiency (DSIRE)
 http://dsireusa.org/library/includes/map2.cfm?CurrentPageID=1&State=NJ&R
 E=1&EE=1

DSIRE provides a list of current New Jersey incentives for renewables and efficiency.

 New Jersey Clean Power Choice Program http://www.njcleanpower.com/

The Clean Power Choice Program from the New Jersey Board of Public Utilities' Office of Clean Energy is a statewide program that allows you to choose clean, renewable sources of energy.

4.4 OBJECTIVE: Develop and implement efforts that improve the quality of the community water resources and reduce water use

❖ Grid Pavers/Porous Pavement

 NJ Stormwater Best Management Practices: Chapter 9.7 Standard for Pervious Paving Systems (Feb 2004) http://www.state.nj.us/dep/watershedmgt/DOCS/BMP_DOCS/bmpfeb2004pdf s/feb2004chap9_7.pdf

This 14-page document by the NJ DEP defines different pervious paving systems, provides design and construction guidelines as well as diagrams and additional resources.

Paving Paradise: The Peril of Impervious Surfaces
 http://www.ehponline.org/members/2005/113-7/ehp0113-a00456.pdf

This article featured in the January 2006 edition of Environmental Health Perspectives gives a good overview of the major environmental and human health implications of impervious surfaces and provides recommendations on available methods to reduce impervious cover.

Research Links for Permeable Paving
 http://www.plantsf.org/Research_PermPavers_0511_Friedel.pdf

This bibliography lists web resources, examples of types of different permeable paving systems, and publications.

Stormwater Best Management Practices

 Brooklyn Botanical Gardens- Sustainable Techniques http://www.bbg.org/gar2/topics/sustainable/

This website lists, in alphabetical order by subject, links to information on how to design gardens that conserves natural resources, eschews toxic

chemicals, and encourages a diversity of plant and animal life. Check out the links on rain gardens and rainwater harvesting.

 EPA Erosion and Sediment Control Model Ordinances www.epa.gov/owow/nps/ordinance/erosion.htm

This resource, developed by the EPA, is geared towards helping municipalities draft ordinances for erosion and sedimentation control.

LU SC SS NR SG Objective: 4.4

❖ Stormwater Best Management Practices cont.

 Jacques Cousteau National Estuarine Research Reserve- Stormwater Management Toolkit

http://www.jcnerr.org/coastal_training/toolkit/storm/index.html

This stormwater management toolkit provides background information on stormwater management and NJ DEP stormwater management rules; a case study on Stafford Township, NJ; and a toolkit which provides a list of books, model ordinances, potential providers, and internet tools.

From Rooftop to River: Stormwater Best Management Practices
 http://www.desplaines.org/Services/FloodProtection/FromRooftopsToRivers.p
 df

Prepared by the Metropolitan Mayors Caucus (Summer 2006) The brochure provides pictures and answers to Frequently Asked Questions about BMP's.

 Native Plant Society of New Jersey- Rain Garden Manual http://www.npsnj.org/rain_garden_home.htm

This rain garden manual provides information on how to design, plant, and maintain your own rain garden and provides links to additional resources and information on rain gardens.

 New Jersey Stormwater Best Management Practices Design Guide, EPA/600/R-04/121A, September 2004.

www.epa.gov/ORD/NRMRL/pubs/600r04121/600r04121a.pdf

This document is Volume 2 of a three volume document that provides guidance on the selection and design of stormwater management Best Management Practices (BMPs). This second volume provides specific guidance for a group of onsite BMP control practices that are referred to as vegetative biofilters and includes the following BMP control practices:

- Grass Swales
- Filter and Buffer Strips

Bioretention Cells

LU SC SS NR SG Objective: 4.4

❖ Stormwater Best Management Practices cont.

 Rutgers Cooperative Research & Extension: Water Resource Program http://www.water.rutgers.edu/main.htm

The goal of the Water Resources Program is to provide solutions for many of the water quality and quantity issues facing New Jersey. The program provides research, project development, assessment and extension. In addition they prepare and distribute Fact Sheets and provide educational programming in the form of lectures, seminars, and workshops as part of our outreach to citizens.

❖ Goose Management Programs

 Northeast Wildlife Damage Management Cooperative http://wildlifecontrol.info/NEWDMC/Publications.html

This website provides a link to the NJ Rutgers Cooperative Extension Goose Management Series:

- Positive Benefits and Negative Impacts of Canada Geese
- Habitat Modifications
- Exclusion
- Regulated Hunting
- Harassment
- Repellents
- Nest and Egg Destruction
- Capture and Euthanasia
- Modify Human Behavior

❖ Water Efficient Systems

 American Rainwater Catchment Systems Association (ARCSA) www.arcsa-usa.org ARCSA was founded to promote rainwater catchment systems in the United States. Its website provides regional resources, publications, suppliers, and membership information.

LU SC SS NR SG Objective: 4.4

Water Efficient Systems cont.

 Rocky Mountain Institute (RMI): Water Efficiency for Your Home http://www.rmi.org/sitepages/pid172.php

This portion of RMI's Web site is devoted to water conservation information and efficiency. The site contains information on commercial, industrial and institutional water use, watershed management, and articles on policy and implementation.

• The Irrigation Association www.irrigation.org

This nonprofit organization focuses on promoting products that efficiently use water in irrigation applications

 Water-Efficient Landscaping: Preventing Pollution and Using Resources Wisely

http://www.epa.gov/watersense/docs/water-efficient landscaping 508.pdf

This manual from the Environmental Protection Agency provides information about reducing water consumption through creative landscaping techniques.

 Water Wise: The Water Efficiency Clearinghouse http://www.awwa.org/waterwiser/

This clearinghouse provides articles, reference materials and papers on all forms of water efficiency.

 Water Use Efficiency Program www.epa.gov/owm/water-efficiency

4.5 OBJECTIVE: Develop and implement efforts that maintain and expand the community's biodiversity and foster protection or expansion of native habitat for flora and fauna

❖ Wildlife Habitats

 NWF's Backyard Wildlife Habitat™ http://www.nwf.org/backyard/

The National Wildlife Federation's Backyard Wildlife Habitat Program provides information on how residents can create a certified, biodiverse haven for wildlife using native plants and other resources.

 NWF's Community Wildlife Habitat Certification http://www.nwf.org/community/

This program is part of National Wildlife Federation's Backyard Wildlife Habitat™ Program. Community Wildlife Habitat projects take the basics of this program — providing food, water, cover, and places where wildlife can raise their young — from individual backyards into multiple locations throughout the community. CWH's benefit the entire community of people, plants and wildlife through the creation of sustainable landscapes that require little or no pesticides, fertilizers and excess watering. These landscapes help keep water and air resources clean and are healthier for people and the environment. Habitat landscapes can serve to beautify our urban areas and give residents pride in their neighborhoods.

Example: Burlington Community Wildlife Habitat Initiative (BCWHI) http://www.burlingtongardens.org/Burlington Habitat Initiative.html

❖ Organic Yard Care

Brooklyn Botanical Gardens- Easy Lawns Resources
 http://www.bbg.org/gar2/topics/sustainable/handbooks/lawns/index.html

This website provides information on planting caring for low-maintenance native grasses.

 Lady Bird Johnson Wildlife Center www.wildflower.org

The website offers a number of resources, including a nationwide Native Plant Information Network and a National Suppliers Directory.

 North American Native Plant Society www.nanps.org

A nonprofit association dedicated to the study, conservation, cultivation and restoration of native plants. Its website contains links to state associations.

 Organic Gardening http://www.organicgardening.com/

Online magazine that provides information on organic gardening solutions, landscaping ideas, organic soil guidelines and tips for creating wildlife habitats.

Organic Lawn and Land Care- NOFA
 http://www.nofanj.org/OrganicLawnandLandCareFinalList2006.htm

NOFA provides a listing of individuals and service providers that have passed a five-day NOFA certification program for organic lawn care.

Plant Native

www.plantnative.org

This organization is dedicated to moving native plants and nature-scaping into mainstream practices

LU SC SS NR SG Objective: 4.5

Integrated Pest Management (IPM)

 ANJEC Integrated Pest Management (IPM) <u>http://www.anjec.org/html/ipm.htm</u>

Association of New Jersey Environmental Commissions (ANJEC) provides an overview of IPM including benefits to environmental and human health. The website also provides links to addition resources on IPM.

Beyond Pesticides

http://www.beyondpesticides.org/

Beyond Pesticides provides useful information on pesticides and alternatives to their use, topics also covered in Beyond Pesticides' quarterly news magazine, Pesticides and You; monthly news bulletin, Technical Report; Daily News website service; and, the bi-monthly bulletin, School Pesticide Monitor. The organization also publishes a wide variety of brochures, information packets, and reports.

Northeastern IPM Center (NE IPMC)

http://northeastipm.org/

The NE IPMC strives to organize new and existing information on IMP and to make it available to the stakeholders it serves such as IPM users (e.g., farmers), public policymakers, regulatory agencies, environmental organizations, public interest organizations, taxpayers and voters, and the research community.

Pest Management Office of Rutgers Cooperative Extension http://www.pestmanagement.rutgers.edu/

The goal of this site is to provide easy access to information of interest to agricultural producers, commercial pesticide applicators, and the public.

• IPM Institute of North America

http://www.ipminstitute.org/school.htm

The IPM Institute of North America is an independent non-profit organization formed in 1998 to foster recognition and rewards in the marketplace for goods and service providers who practice Integrated Pest Management, or IPM.

LU SC SS NR SG Objective: 4.5

❖ Organic School Gardens

• The Edible Schoolyard

http://www.edibleschoolyard.org/homepage.html

The Edible Schoolyard, in collaboration with Martin Luther King Junior Middle School, provides urban public school students with a one-acre organic garden and a kitchen classroom. Using food systems as a unifying concept, students learn how to grow, harvest, and prepare nutritious seasonal produce. Experiences in the kitchen and garden foster a better understanding of how the natural world sustains us, and promote the environmental and social well being of our school community.

• Organic School Garden Seth Boyden Elementary (Maplewood, NJ) http://www.kidsregen.org/gardens/2005/sethboyden.php

Each class has access to one or two six-foot-square garden beds to plant and tend however they choose.

School Gardens- NOFA

http://www.nofanj.org/YouthEdprograms.htm

NOFA-NJ's goal, as a statewide organization, is to promote healthy food systems throughout NJ. Their pilot youth food education programs in Lawrence Township, with its diverse population of 30,000 people living between Trenton and Princeton, has great potential to serve as a model for New Jersey schools and communities.

4.6 OBJECTIVE: Develop and implement the three "R's" – strategies for waste management: Reduce, Reuse and Recycle

Composting

 Greater Upper Valley Solid Waste District Guide to Composting http://www.guvswd.org/compost

This site offers four levels of composting advice:

- The Lazy Composter
- The Green Thumb
- The Scientist
- Using Worms (Indoor Composting)
- Organic Gardening's Composting 101
 http://www.organicgardening.com/feature/0,7518,s1-3-79-895-1-1-2,00.html

This article provides guidance on how gardeners can speed up the natural process by providing the optimal conditions for decomposition Air + Water + Carbon + Nitrogen = Compost

 Rutgers Backyard Leaf Composting http://njaes.rutgers.edu/pubs/publication.asp?pid=fs074

This two-page fact sheet provides information on the benefits and methods of composting backyard leaves.

 WasteWise Update: Recovering Organic Wastes- Giving Back to Mother Nature

http://www.epa.gov/wastewise/pubs/wwupda12.pdf

Newsletter explaining the composting process and highlighting examples of organic waste diversion and recovery options.

LU SC SS NR SG Objective: 4.6

* Recycling Programs & Resources

 Building Material's Reuse Association (BMRA) http://www.ubma.org/

The BMRA is a non-profit educational organization whose mission is to facilitate building deconstruction and the reuse/recycling of recovered building materials. The site provides a State-wide directory to help locate local building material reuse businesses.

 EPA's Construction & Demolition (C&D) Debris website http://www.epa.gov/epaoswer/non-hw/debris-new/index.htm

This Web site provides comprehensive information on C&D debris, including:

- Basic Information provides an overview of the C&D debris waste stream, disposal practices, EPA's goals for its C&D debris programs, and some success stories about C&D reduction and recycling.
- Where You Live describes regional and state programs in your area.
- Reducing C&D Debris describes a wide range of C&D debris reduction techniques by methodology (reduce, reuse, recycle, and rebuy) and by material.
- What You Can Do gives practical advice on reducing and preventing C&D debris when planning a construction/remodeling project.
- EPA's Consumer Tips on How to Reduce, Reuse, Recycle and Buy Recycled Products

http://www.epa.gov/epaoswer/osw/specials/funfacts/index.htm

This site provides general waste reduction tips as well as Seasonal and Holiday Tips for Waste Prevention, Reuse, and Recycling.

LU SC SS NR SG Objective: 4.6

* Recycling Programs & Resources cont.

 EPA's Reduce, Reuse, Recycle website http://www.epa.gov/msw/reduce.htm

This site offers general information about waste reduction and recycling and provides links to additional resources on the subject.

• "Putting Surplus Food to Good Use: A How to Guide for Food Service Providers"

http://www.epa.gov/epaoswer/non-hw/organics/pubs/food-guide.pdf

Fact sheet designed by the EPA to help food service providers start a food waste reduction and recovery program at their facilities

Sustainable Government SG Reference Compendium



GOAL 5: SUSTAINABLE GOVERMENT

5.1 OBJECTIVE: Develop and implement environmental initiatives that are resource efficient and cost-effective and that help to stabilize the municipal budget.

Environmentally Preferable Purchasing (EPP) Practices

 Green Purchasing: A Guide for Local Governments and Communities http://www.state.nj.us/dep/dsr/bscit/epp.pdf

The NJDEP Bureau of Sustainable Communities and Innovative Technologies (BSCIT) developed this guide to help meet the demand for basic information among New Jersey communities that are interested in developing an Environmentally Preferable Purchasing (EPP) program. The purpose of this guide is to:

- Provide local governments with essential information on EPP; and
- Provide general guidelines on how to establish and implement an EPP program
- Green Seal

http://www.greenseal.org/

Green Seal provides assistance in purchasing, operations, and facilities management through product evaluations and recommendations, guidance manuals, certification, and special projects.

 New American Dream Institutional Purchasing Program http://www.newdream.org/procure/

The Center for a New American Dream's Institutional Purchasing Program helps institutions incorporate environmental and human health considerations into their purchasing decisions. The Institutional Purchasing Program promotes

environmentally preferable purchasing through its outreach, trainings and presentations, conference calls, web site, and media and communications efforts.

 New Jersey Business Guide to Recycled Products- Association of New Jersey Recyclers (ANJR)

http://www.anjr.com/buyrecycled/how_to_use.html

Provides a searchable directory regional companies and companies with local distributors that sell recycled products.

LU SC SS NR SG Objective 5.1

- **❖** Environmentally Preferable Purchasing (EPP) Practices cont.
 - Northeast Organic Farming Association of New Jersey- (NOFA-NJ) http://www.nofanj.org/cof.htm

Provides list of certified organic farms in New Jersey.

Passaic County, N.J. – Local Guide to Recycled Products
 http://www.passaiccountynj.org/departments/naturalresources/BuyRec_LocalProductsGuide.htm

Residents often ask us where they can purchase products that have recycled content. This short guide represents just some of the <u>many</u> products that are available locally.

 Rutgers University Green Purchasing Policy and Guidelines http://purchasing.rutgers.edu/green

The Purchasing Department has identified and recommends criteria and strategies for the procurement of green products and services.

 The Forest Stewardship Council (FSC) http://www.fscus.org/

Look for products bearing the FSC logo, which guarantees that the product is made of wood from a certified well-managed forest. Many retailers in the U.S. also stock FSC products, including The Home Depot, Lowe's Home Improvement Centers, and Kinko's. Please ask your local retailer for information on their FSC-certified products.



5.2 OBJECTIVE: Develop and implement environmental services that improve the resource efficiency and cost-effectiveness of municipal services.

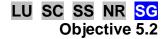
Grants, Certifications or Awards

 Leadership in Energy and Environmental Design (LEED) http://www.usgbc.org/DisplayPage.aspx?CategoryID=19

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ is the nationally accepted benchmark for the design, construction, and operation of high performance green buildings. LEED gives building owners and operators the tools they need to have an immediate and measurable impact on their buildings' performance. LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality. Specific LEED programs include:

- New Commercial Construction and Major Renovation projects
- Existing Building Operations and Maintenance
- Commercial Interiors projects
- Core and Shell Development projects
- Homes
- Neighborhood Development
- Guidelines for Multiple Buildings and On-Campus Building Projects
- LEED for Schools
- LEED Neighborhood Development (ND)
 http://www.usgbc.org/DisplayPage.aspx?CMSPageID=148

LEED Neighborhood Development (ND) is a rating tool in development by the USGBC that can help West Windsor Township to move toward environmental sustainability. LEED ND goes beyond buildings and integrates the principles of smart growth, new urbanism, and green building into the first national rating system for neighborhood design. Specifically, LEED-ND provides for best practices in areas closely aligned to the objectives and indicators depicted in this document. These are: Smart location and transportation linkages; Preservation: complete. Environmental Compact, and connected neighborhoods; and High performance, green construction and technology.



Green Cleaning Practices

- Clean Water Action Green Cleaning Policy Template http://www.cleanwateraction.org/pdf/njef/greencleaningpolicy.pdf
- New Jersey Executive Order No. 76
 http://www.state.nj.us/cgi-bin/governor/njnewsline/view_article.pl?id=2883

This Executive Order requires State Agencies to use Environmentally-Friendly Cleaning Products

 The Pennsylvania Green Building Operations and Maintenance Manual http://www.focus-acs.com/pdf/greenbuildingbook.pdf

This guide is designed to reduce the health and environmental impacts resulting from the cleaning, landscaping and maintenance of the Commonwealth's buildings.

 Cleaning Equipment, Accessories, Janitorial Supplies, Cleaning Chemicals and Sorbents- EPP catalog from U.S. General Services Administration (GSA)

http://www.gsa.gov/gsa/cm_attachments/GSA_BASIC/sch79ib_R2H73-I_0Z5RDZ-i34K-pR.pdf

All products in this catalog comply with the Organization for Economic Cooperation and Development's definition of ready biodegradability (60 percent to 70 percent biodegradable within 28 days), for each organic

component above 1 percent in the ready-to-use product. Environmentally preferable, biodegradable cleaners/degreasers are formulated to be readily biodegradable, have low toxicity, and contain no phenolic compounds or petroleum solvents. See pages 4 and 33-36 for environmental attribute descriptions and a biodegradable products attribute matrix.



- **5.3 OBJECTIVE:** Develop and implement strategies that reduce municipal fleet emissions and provide sustainable transportation options for municipal employees
 - See Sustainable Circulation (SC) Reference Compendium (RC) 2.1
 - o Car Sharing Services
 - See Sustainable Circulation (SC) Reference Compendium (RC) 2.3
 - o Commute Trip Reduction
 - o Green Fleets
 - Alternative & Clean Fuels



OBJECTIVE: Develop and implement energy initiatives that conserve energy and that encourage the use of cleaner energy sources and technologies which will help to stabilize the municipal budget through resource efficiency and oil independence

Energy Audits & Retrofits

 How to Conduct and Energy Audit: A Short Guide for Local Governments and Communities (2006)

http://www.njcleanenergy.com/media/Energy_Audit_Guide.pdf

The purpose of this guide prepared by the New Jersey Department of Environmental Protection Division of Science, Research and Technology Bureau of Sustainable Communities and Innovative Technologies is to provide basic information on how to conduct an energy audit, with a focus on building audits. Buildings consume nearly one third of the energy used in the United States.

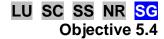
 Guide to Energy Efficient Traffic Signals and Street Lighting http://www.energyfinder.org/images/other/CEOF CityLighting.pdf

Most communities spend tens or hundreds of thousands of dollars each year powering traffic signals and lighting streets and public parking lots. This guide provides information and examples on how your community can explore energy efficiency options in these areas and potentially save money.

Energy Star Energy Efficient Vending Machines

http://www.energystar.gov/index.cfm?c=vending_machines.pr_vending_machines

ENERGY STAR qualified new and rebuilt refrigerated beverage vending machines can save building and business owners more than 1,600 kWh/year, or nearly \$130 annually on utility bills.



Energy Efficient Computing

• Energy Star- Computer/Monitor Power Management http://www.energystar.gov/index.cfm?c=power_mgt.pr_power_management

ENERGY STAR Power Management features — standard in Windows and Macintosh operating systems — place inactive monitors and computers (CPU, hard drive, etc.) into a low-power sleep mode. A simple touch of the mouse or keyboard "wakes" the computer and monitor in seconds. Studies estimate that \$25 to \$75 per desktop PC can be saved annually through Power Management.

 Save Money- Switch off your PC! http://www.sustainable.org.nz/resource.asp?id=34

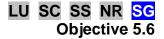
This article on energy efficient computing by the Sustainable Business Network makes the financial and environmental case for turning off your computer at night and when you are not using it for several hours.

 Tufts Climate Initiative Computer Brochure http://www.tufts.edu/tie/tci/pdf/Computer%20brochures.PDF

This brochure provides energy efficient computing tips and lists common myths and facts about computer use and energy consumption.



- **5.5 OBJECTIVE:** Develop and implement water conservation initiatives that reduce potable water use and increase the percentage of water used from non-potable sources at all Municipal Facilities and Assets
 - See Natural Resource Reference Compendium 4.4
 - Grid Pavers/Porous Pavement
 - Stormwater Best Management Practices
 - Water Efficient Systems



- **5.6 OBJECTIVE:** Design, operate, manage, and maintain municipal facilities and assets in a manner that preserves and enhances the quality of local natural resources
 - See Natural Resource Reference Compendium 4.5-
 - Organic Yard Care
 - Integrated Pest Management (IPM)
 - See Natural Resource Reference Compendium 4.6-
 - Composting
 - Recycling Programs & Practices
 - See Land Use Reference Compendium 1.4-
 - Green Building Resources
 - Green Building Ordinances & Incentives
 - National Green Home Building and Remodeling Guidelines & Programs
 - Regional Green Home Building and Remodeling Guidelines & Programs
 - Green Home Building and Remodeling Workshops
 - Green Home Remodeling Books
 - Green Home Remodeling Resources: Website, magazines & tips