

NJ Clean Energy Conference

Clean Energy, Smart Business.

How Municipalities can Plan and Design for Green and Energy Efficient Communities

September 27, 2007

**Never doubt that a small group of thoughtful, committed people can change the world.
Indeed it is the only thing that ever has. ~ Margaret Mead**



NJDEP Office of Planning and Sustainable Communities

Vision for New Jersey in 2020

13 years from now!

Climate

- Stabilize greenhouse gas emissions to 1990 levels by 2020, a 20 percent reduction,
- 80 percent below 2006 levels by 2050

Governor Corzine's - EO 54 and Global Warming Response Act

www.state.nj.us/globalwarming/index.shtml

Energy

- Reduce projected energy use 20% by 2020
- Meet 20% of the State's electricity needs with Class 1 renewable energy sources (solar, biomass, wind) by 2020



Vision for New Jersey in 2020

The New Jersey State Development and Redevelopment Plan
Adopted March 1, 2001

Smart growth is the right type of development in the right location.

Sustainable Planning Design Livable Communities

Dynamic
Diverse
Compact

Ecological
Healthy
Efficient



Upper Montclair

www.nj.gov/dca/osg/plan/



NJDEP Office of Planning and Sustainable Communities

Vision for New Jersey in 2020

The New Jersey State Development and Redevelopment Plan
Green / Sustainable and Energy Related Policies

- **Investment Priorities in Infrastructure** - promote growth in urban centers and protect environmentally sensitive areas.
- **Sustainable Economic Development** - promote full cost accounting, green businesses.
- **Community Design** - encourage compact and mixed use redevelopment / create sense of place.
- **Transportation and Energy Conservation** - reduce vehicle miles traveled and use public and alternative transportation systems.
- **Energy Resources** - encourage renewable energy resources, energy efficient buildings, transportation and community design



Tools to Achieve State Vision

Global Warming - Climate / Energy

New Jersey's Clean Energy Program is a statewide program administered by the New Jersey Board of Public Utilities that provides \$145 million dollars in funds each year to promote energy efficiency and renewable energy for all New Jersey ratepayers including residences, businesses, schools and municipalities.



www.njcleanenergy.com/



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Tools to Achieve State Vision

Global Warming - Climate / Energy

Regional Greenhouse Gas Initiative (RGGI) - www.rggi.org/

A ten-state cooperative effort to implement a *regional cap-and-trade program* in the Northeast and Mid-Atlantic regions to address *carbon dioxide emissions from power plants*.



NJ Clean Car Program - Low Emission Vehicle program in 2009. The program contains three components: vehicle emission standards, fleet wide emission requirements, and a Zero Emission Vehicle sales requirement.



Tools to Achieve State Vision Global Warming - Climate

NJ Cool Cities Initiative - Goal is to green New Jersey's larger cities by planting trees, creating cooler, more comfortable urban environments, reducing air pollution and the demand for electricity while improving the quality of life for local residents.



Newark's Fairmount Neighborhood
Source: NJ Tree Foundation

www.nj.gov/dep/parksandforests/forest/community/



NJDEP Office of Planning and Sustainable Communities

Tools to Achieve State Vision

Creating Livable / Sustainable Communities

- **DEP Priorities and Actions - January 2007**

Maximize use of DEP resources to *encourage sustainable growth and livable communities* by incorporating consistent criteria for the protection of natural resources and development of smart growth and green design principles into DEP rulemaking, priority-setting and planning efforts, other state smart and economic growth priorities, and in regional and local planning efforts.

- **Creation of the DEP Office of Planning and Sustainable Communities - May 2007**

www.nj.gov/dep/opsc



Tools to Achieve State Vision

Creating Livable / Sustainable Communities

DEP Office of Planning and Sustainable Communities

- **Promoting Environmental Capacity Based Planning**

Ensures that growth and redevelopment account for natural limits on water supply, waste treatment, and impacts to environmental features

- Water quality management planning
- Statewide Water Supply Master Plan
- Landscape Project - species and habitat protection
- Use of GIS - www.nj.gov/dep/gis/newmapping.htm

- **Promoting Sustainable Communities**

www.nj.gov/dep/opsc



Tools to Achieve State Vision Organizations

- NJ State League of Municipalities Mayor's Committee for a Green Future - www.njslom.org/Green_Future_committee.html
- NJ Sustainable State Institute - <http://njssi.org/>
- Rutgers Center for Green Buildings - www.greenbuilding.rutgers.edu/
- Municipal Land Use Center - www.tcnj.edu/~mluc/about.html
- Cool New Jersey - www.coolnewjersey.org/
- ICLEI's Cities for Climate Protection - www.iclei.org/index.php?id=800
- USGBC NJ - <http://chapters.usgbc.org/newjersey/>



Tools to Achieve State Vision Public Education



Wednesday, January 31 - Sunday, February 4, 2007

NEXT Princeton Environmental Film Festival January 2 to 6, 2008

The festival includes films and speakers on a range of environmental concerns and issues.

www.princetonlibrary.org/peff/

Contact: Susan Conlon at (609)924-9529 ext. 247

Email: sconlon@princetonlibrary.org



NJDEP Office of Planning and Sustainable Communities

Tools to Achieve State Vision Environmental Labels



Take the ENERGY STAR **Change a Light** Pledge
Change just one light and see how a small step can make a big difference.

www.energystar.gov



www.transfairusa.org/



Carbon
Reduction
Label

www.carbontrust.co.uk/



Tools to Achieve State Vision

Media - TV



www.livingwithed.net/

www.sundancechannel.com/thegreen



Life in New Jersey 2020

In Search of a Sustainable / Green Community



Green Home



Local Farmers Market



Cultural Diversity



Public Transportation



Renewable Energy



Safe Biking Options



Thank you!

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He who knows what sweets and virtues are in the ground, the waters, the plants, the heavens, and how to come at these enchantments, is the rich and royal man.

~ Ralph Waldo Emerson, 1844



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