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Leading the Way

*Long Island's
Local Governments
Implementing
Clean Energy
Solutions*

Report 2007

Leading the Way

Long Island's Local Governments
Implementing Clean Energy Solutions

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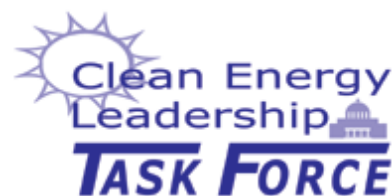
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*Healthy Environment,
Strong Communities,
Accountable Government*

Leading by Example

Mission of the

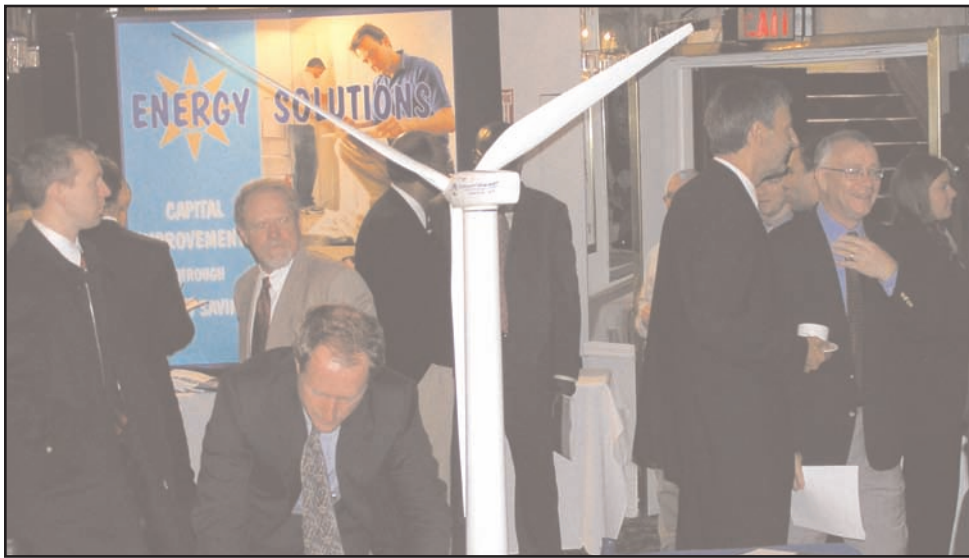
Clean Energy Leadership Task Force

The *Clean Energy Leadership Task Force* strives to help local governments lead by example and act as role models to the general public by demonstrating that technologies are available now to achieve energy efficiency goals, for both buildings and vehicles.

The *Clean Energy Leadership Task Force* brings together all the Townships, two Counties, and some of the Villages on Long Island to take action on clean energy at the local level. The Task Force has met 3 times per year since 2004. Task Force meetings feature speakers from the local utilities, energy conservation companies, experts in the field, and non-profit organizations, providing an educational forum for local municipalities about current technologies & policies with a special focus on financial incentives to facilitate clean energy programs. The Task Force helps municipalities to serve as a role model for local residents.



See more information at neighborhood-network.org/energy/task_force.htm



Purpose of this Report

Through the efforts of the *Clean Energy Leadership Task Force*, its dedicated members in each municipality, and the leadership of each Town Council and County Legislature, many positive steps have been taken here on Long Island to address climate change & air pollution, often while saving taxpayer dollars, through clean energy projects and policies. The purpose of this report is to celebrate Long Island's collective

success stories in implementing clean energy programs, and to provide a summary of accomplishments to date. The Report can also serve as an inspirational tool for municipalities who may have areas where more effort is needed.

A majority of Long Island municipalities have adopted annual Clean Energy Action Plans to serve as individualized road maps to implementing cleaner energy choices. Most municipalities without formal Action Plans are also taking action. For the purposes of this report, actions are categorized into the following topics:

- Building retrofits
- Alternative Fuel Vehicles
- Renewables
- Policy/ Public Education

Responses were collected from the respective representatives from each municipality who work on implementing clean energy programs within their town or county.

Forward

The debate over whether or not global warming is happening is now over. The international Intergovernmental Panel on Climate Change (IPCC) reported in 2007 that “Warming of the Climate system is unequivocal.” They declared in language designed to be as clear as possible in order to spark concerted and aggressive action.

Meanwhile the moral dimensions of the problem are causing religious leaders from around the world to become environmental activists. “Global warming is one of the greatest moral issues of our time,” wrote the Rev. Bingham in a policy pronouncement delivered at a major conference of the Interfaith Power and Light Climate Change Campaign.

So exactly what kind of action is needed?

James Hansen, Director of NASA's Goddard Institute of Space Studies, America's lead scientist on climate issues, has declared that this crisis requires a dramatic response. By Mr. Hansen's estimates, we need to reduce our current level of greenhouse gas emissions by 80% by 2050.

An 80% reduction target is daunting.

Currently, America leads the world in greenhouse gas emissions. It is often pointed out that while Americans make up approximately 5% of the world's population, we generate more than 25% of the world's greenhouse gas emissions. Clearly, implementing clean energy solutions on an order of magnitude that is needed to transform the world's economies enough to slow global warming will require American leadership.

Leadership on energy issues is exactly what has been lacking for much too long from our federal government.

As 2007 ended, the news out of our Nation's Capitol was that Congress and the President finally agreed on a compromise energy bill. This new law provides some good policy changes such as a phase-in of new fuel efficiency standards for cars and some increases in funding for alternative fuel initiatives. However, for the most part, these are merely incremental steps that will fall far short of meeting the challenge. When historians look back on this period of time, they are likely to note a fundamental failure of leadership from our federal officials on energy issues. For example, it is still part of our national policy to annually provide tens of billions of taxpayer dollars to oil companies (who are raking in record profits) to encourage fossil fuel drilling, while the incentives for clean energy initiatives remain extremely small. To acknowledge this failure of leadership on energy issues is by no means a partisan observation; this has been a consistent bi-partisan failure.

Fortunately there is good news, but it is not out of Washington D. C., it is being made here on Long Island.

While our federal officials have failed to act, there has been a surprisingly significant amount of action on energy issues at the local level by Long Island governments. It is at the local level that the **CLEAN ENERGY LEADERSHIP TASK FORCE**, which has the motto of “Leading by Example,” fills the void. Since this project was launched in 2004, significant progress has been achieved. As you will see from reading this report, the two counties and 13 towns on Long Island are deeply involved in making their operations more energy efficient, promoting clean, renewable energy sources for government facilities, while also adopting policies that help to promote energy efficiency and renewables for the general public.

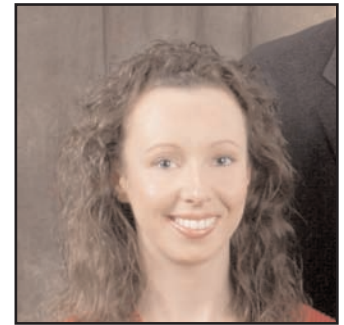
The debate over whether human activity is causing global warming should now be over, which means that we can shift to the more important debate over the question: *what should we do about it?* This report demonstrates that there are many solutions being implemented today. As we look for ways to move forward and address the energy crisis—in the great American tradition of creative innovation starting at the grassroots level—we find that local government, the level of government closest to the people, is now providing the examples that will lead the way to a new energy future.



Neal Lewis, Esq.
Facilitator, Clean Energy Leadership Task Force
Executive Director, Neighborhood Network

Executive Summary

To complete this report, we asked each Town (13) and County (2) on Long Island to fill out a basic questionnaire reporting on clean energy actions they have taken in the past few years since the Clean Energy Leadership Task Force began in 2004. The results show that there are numerous actions local municipalities are taking to reduce their green house gas emissions (Co₂, NO_x, ozone, particulates, etc. formed from burning fossil fuels).

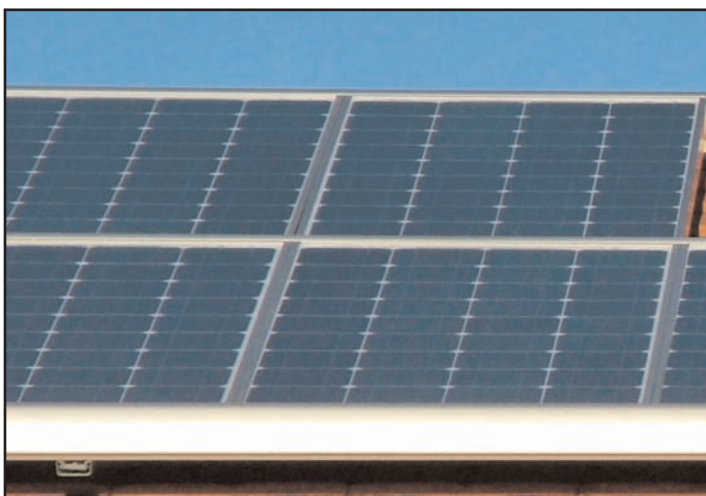


Scientists are no longer seriously debating climate change, and the overall consensus is that substantial change must take place quickly to reduce our dependence on oil and coal, and reduce potential impacts from both air pollution and global warming. Most local leadership is embracing the responsibility to lead by example and employ clean energy technologies and policies that are available now. Long Island has a population of almost 3 million, so our region can serve as a model to the nation. Some local municipalities, however, are lagging behind. Also, only about half of the local municipalities are actively engaged in outreach to their residents or own staff about how they can conserve energy and about what the municipality is doing.

Of note:

- 13 of 15 Municipalities regularly attend the Clean Energy Leadership Task Force meetings.
- 11 of 15 Municipalities have done prescriptive (individualized) upgrades to buildings (lighting, insulation, heating/cooling, or windows).
- 11 of 15 Municipalities have invested in some form of alternative fuel for their vehicles, e.g. natural gas, biodiesel, electric, or hybrid.
- 10 of 15 Municipalities have invested in some form of renewable energy, e.g. solar, wind, use of digester gas at landfill.
- 10 of 15 Municipalities have either established an internal energy committee or have a designated staff energy coordinator.
- 9 of 15 Municipalities have adopted Clean Energy Action Plans.
- 6 of 13 Towns have adopted Energy Star Code requirements for new home construction.
- Of the 7 municipalities that have undergone energy audits by either LIPA or NYPA (New York Power Authority), 3 have completed or are completing major building retrofits.

Please see the following pages for more details, and the chart in the centerfold for a summary of the progress that has been made by Long Island municipalities.



To get more information or if you would like to participate in the Task Force, please contact the Neighborhood Network at 631-963-5454, or email energy@neighborhood-network.org.

Beth Fiteni
Organizer, Clean Energy Leadership Task Force
Program Director, Neighborhood Network

County of Nassau

Adopted Clean Energy Action Plan: Yes

Building efficiency & retrofitting:

- Energy Efficiency - Recently completed energy upgrades to seven major Nassau County facilities anticipated to save over \$800,000 per year in energy costs. Estimated CO2 reduction: 4,360 tons per year. Energy audits are being conducted at additional County facilities.
- Adopted a law providing that new construction and major renovation of County buildings follow standards established by the US Green Building Council's Leadership in Energy and Environmental Design (LEED).



Renewables:

- Renewable Energy - Currently purchasing 10,000,000 kWh - 10% of County government electricity demand - from wind power with commitment to increase to 25% by 2010. Estimated CO2 reduction: 4,500 tons in 2007.
- Digester gas (a by-product of the wastewater treatment process) is used by the County to generate nearly 30,000,000 kWh annually at Bay Park and Cedar Creek Water Pollution Control Facilities.

Greening Fleets:

- Long Island Bus, with financial assistance from Nassau County, is the largest 100% Compressed Natural Gas bus fleet in the nation outside California with over 330 CNG busses carrying over 30 million passengers annually.
- Established one of the largest Bio-diesel Fuel Programs on LI; projected to supply 175,000 gallons of B20 bio-diesel in 2007 to fuel all 359 of the County's non-emergency heavy duty vehicles. Estimated CO2 reduction: 770 tons in 2007.
- Established one of the largest Alternative Fuel Vehicle Programs in New York, comprised of 80 compressed natural gas, ethanol flex-fuel, and electric vehicles. Established the first E85 ethanol fueling station on Long Island. Estimated CO2 reduction: 20 tons in 2007
- Clean Diesel Replacement and Retrofit Program -The County has developed a Clean Diesel Replacement and Retrofit Program so that by the end of 2010, 100% of the County's 230 non-emergency heavy duty diesel vehicles will either be replaced with new vehicles meeting the 2007 EPA standard for particulate matter (PM) emissions or be retrofitted with the best available technology for reducing emissions.
- Vehicle Idling Reduction Measures - In October 2006, the County adopted a local law restricting idling of diesel vehicles to a time limit of three minutes per hour. New York State law already prohibits heavy duty vehicles from idling for more than five minutes except in certain circumstances.



The County will identify high priority areas of enforcement in an effort to reduce emissions and conserve fuel.

Policy & Decision Making; Public Outreach:

- Clean Commute Options - Established a Travel Demand Management Program for County employees which includes TransitChek, a tax benefit program to encourage the use of mass transit, and NuRide and Guaranteed Ride, ride sharing programs to encourage the use of multi-occupant vehicles.
- New York Metropolitan Air Quality Initiative - leading the way to cleaner air and healthier communities, the Environmental Protection Agency (EPA) has brought the counties of Nassau, Putnam, Rockland, Suffolk and Westchester together with New York City, the New York State Department of Transportation and the Federal Highway Administration to sign an unprecedented agreement detailing the specific projects and innovations they will employ to reduce harmful diesel pollution.
- Nassau County one of first to adopt Sierra Club's Cool Counties campaign. together with a number of other Counties, the "U.S. Cool Counties Climate Stabilization Declaration," which is a commitment to reduce harmful global warming emissions 80% by 2050 and urges the federal government to adopt legislation requiring an 80 percent emissions reduction by 2050 and calls for fuel economy standards to be raised to 35 miles per gallon within a decade.
- Climate Change Adaptation - Partnered with the Center for Clean Air Policy and King County, WA through the Urban Leaders Initiative to enhance community resiliency in adapting to the likely impacts of climate change.
- Results - Between 2005 and 2007, Nassau County has made significant progress implementing programs to combat global warming, accomplishing a 5% (10,000 tons of carbon equivalent) overall reduction of the carbon footprint of Nassau County government operations.

Nassau County Townships



Town of North Hempstead

Adopted Clean Energy Action Plan: No

Adopted Energy Star Homes Policy for New Construction: No

Building Efficiency and Retrofitting:

- Have upgraded and are in the process of upgrading heating/cooling systems, windows, lighting, insulation in several buildings.
- In the planning stage of major retrofit and expect to start work this year.
- HVAC project with Keyspan/LIPA for miscellaneous buildings.

Greening Fleets:

- Stakeholder in LI Clean Cities Coalition, but no policy set for phase in of alternative fuel vehicles.
- Town has purchased more than 8 light duty hybrids and has purchased a hybrid bus from Odyne. Plan to purchase 5-10 more hybrid buses.

Renewables:

- Town is selecting a site for PV solar.
- Possibly installing PV solar at waste facility in Port Washington, and conducting a study on wind turbines for Roslyn.
- 1 fuel cell unit at solid waste transfer station.

Policy & Decision Making; Public Outreach:

- Adopted a policy on staff conservation and turning off equipment at night
- Established a policy to purchase only Energy Star office equipment.
- Town has produced a report on financial savings from clean energy efforts.
- They do exhibit booths at local Earth day, Eco-fair, and town-wide cleanup.



Town of Hempstead

Adopted Clean Energy Action Plan: No

Adopted Energy Star Homes Policy for New Construction: No, but under consideration

Building Efficiency and Retrofitting:

- Have upgraded or in process of upgrading heating/cooling systems and lighting.
- In planning stage of a major building retrofit.
- Selecting ESCO (Energy Service Company) to retrofit Town Hall
- Dept of Conservation & Waterways is retrofitting lighting and LED exit signs
- Policy for green municipal buildings is under consideration.
- Aquaculture facility: Lighting and motor pump efficiency upgrading

Greening Fleets:

- Town is a Stakeholder of LI Clean Cities Coalition
- Town has purchased a natural gas garbage truck, 2 Odyne Hybrid electric garbage trucks, 2 Priuses, 4 bi-fuel natural gas, 3 Ford Escape hybrids, and operates 70 GEM cars
- Investigating biodiesel and plan to convert Dept. of Conservation & Waterways to B20.
- Proposed hydrogen refueling station



Renewables:

- Town has invested heavily in solar: 40 kw of solar on Town Hall in downtown Hempstead, 10kw at Conservation & Waterways Building; 10 kw solar at Marine lab, 10kw at Aquaculture facility
- Plans for 3kw wind turbine at Aquaculture facility
- Capture landfill gas to run turbines at Oceanside facility
- Animal shelter: 5kw natural gas fuel cell

Policy & Decision Making: Public Outreach:

- Regularly participates in *Clean Energy Leadership Task Force* meetings
- Energy Committee formed within the town.
- Town engages in various public education activities:
 - organize & host solar energy classes , and Home Performance Workshop with LIPA
 - newsletter - "Ecology Update"
 - Solar kiosk
 - website
 - Field trip on solar with Long Beach High School
 - possible mobile demo trailer for fairs & events

Town of Oyster Bay

Adopted Clean Energy Action Plan: Yes - 1st in Nassau

Adopted Energy Star Homes Policy for New Construction: Yes

Building Efficiency and Retrofitting:

- Plan to upgrade heating/cooling systems, windows, lighting, insulation, TBD by audit
- RFP for ESCO (Energy Service Company) energy audit being finalized
- Considering policy to make all new municipal buildings follow LEED standards.
- Considering policy to make Energy Star Homes a requirement; plan to place info on town website, develop brochure, develop handout to be included in building applications
- Looking into using biodiesel for heating buildings, will issue employee energy guidelines



Greening Fleets:

- Town is a stakeholder with LI Clean Cities Coalition
- Town owns 2 bi-fueled pickup trucks, and GEMS
- Received Clean cities Grant to convert 3 recycling trucks to diesel/electric hybrids. Received Clean Cities grant for natural gas pickup but no longer being manufactured. Looking into modifying grant.

Renewables:

- Currently purchase clean energy for Hicksville Community center.

Policy & Decision Making; Public Outreach:

- Regularly participates in *Clean Energy Leadership Task Force* meetings
- Established an internal Green Energy Task Force to oversee implementation of clean energy programs.
- Adopted a Cool Cities policy, thereby agreeing to the greenhouse gas reductions established by U.S. Mayor's Agreement
- We encourage staff conservation but not by resolution.
- Working on a brochure to be distributed at fairs and festivals and all town buildings.

Suffolk County

Adopted Clean Energy Action Plan: Yes, first on LI to do so

Building efficiency & retrofitting:

- Analyze data for energy conservation & efficiencies.
- Performing energy audits.
- Undertaking Energy efficiency projects:
 - SC Police Department Headquarters
 - Medical examiners
 - Citi Park
 - Farmingville Health center
 - Sewage Treatment Plants
- Light pollution reduction at 6th district court
- Adopting policy phasing out incandescent light bulbs, first in county buildings and then county-wide by 2012, and establishing task force to set light bulb efficiency standards, educate public and coordinate proper disposal with towns.

Greening Fleets:

- Began Pilot biodiesel fuel program at Bergen point for heavy duty trucks - County is now using B20 in all heavy duty diesel vehicles.
- 4 hybrid buses to replace dirty diesel buses
- 59 clean diesel technology buses, reducing emissions by 85%, complete bus fleet conversion by 2009.
- Ultra low sulfur diesel fuel used in county vehicles
- Two GEM (Global electric motors) from LIPA for use at county parks facilities
- Legislation adopted to increase fuel efficiency standard of county fleet (light duty - all vehicles replaced to be candidates for hybrid technology).

Renewables:

- 15% of Total Energy Used by the County is now from Green Power
- Programs Being Evaluated:
 - Citipark solar panels
 - police headquarters- solar panels
 - medical examiners building- microturbines
 - William H. Rogers Legislative Bldg- fuel cells



Policy & Decision Making; Public Outreach:

- Regularly participates in *Clean Energy Leadership Task Force* meetings
- Use green building practices (LEED standards) for all new County construction.
- Mandated purchase of energy star® office equipment.
- Meet regularly with LIPA, NYPA, & Keyspan/National Grid.
- Executive Order calling for phase in of only light bulbs which meet strict efficiency standards in all County buildings by 2012.

Clean Energy Actions Summary

	Decision-Making				Direct Greenhouse Gas Reducing Actions							Broader Policy			Outreach	Other		
	Clean Energy Action Plan	Audits w/ LIPA or NYPA	Established Internal Energy Committee or Staff Energy Coordinator	Adopted Cool Cities- Goal of lowering greenhouse gas emissions 7% below 1990 levels by 2012	Adopted Cool Counties - Goal of lowering greenhouse gas emissions 80% below current levels by 2050	Regularly Participates in Clean Energy Task Force Meetings	Prescriptive approach: upgraded/heating/cooling, windows, lighting, insulation	Retrofitted Town Hall or major building or are "in the works"	we have purchased alt fuel vehicles or are using biodiesel	installed or are installing solar*, wind, or fuel cell	purchase power through Green Choices program	Purchase Energy Star office equipment	staff conservation policy, e.g. turning off equipment at night	Energy Star Home Policy for new home construction	policy for green bldg standards for municipal bldgs	Improved codes to encourage residential solar or wind	Active public education & outreach	other unique Actions/Policies
<i>(Alphabetical)</i>																		
Babylon	2005	y	Staff	y		y	y	y	y - hybrids, electric, biodiesel	y-solar, fuel cell	y-10%	y	y	y & commercial			y	solar trash compactors
Brookhaven	2006	y	Committee	y		y			y- biodiesel	y- solar planned, wind		y	y	y	under consideration			
E. Hampton	2005	y	Committee			y	y	y	y		y	y	y					solar trash compactors
Hempstead			Committee			y	y	y	y-CNG, hybrid, 70 electric	y- all 3				under consideration	under consideration		y	
Huntington	2005		Committee			y	y		y- hybrids, electric	solar under consideration		y	y	y	under consideration	solar under consideration	y	Free parking for alt. fuel vehicles
Islip						y	y		y	y- solar			y	under consideration		solar	y	
Nassau County	2005	y	Staff		y	y	y	y	y-CNG, hybrid, electric, ethanol, biodiesel	solar, digester gas at wastewater treatment plant	y-10%			(N/A)	y			geothermal system at County preserve, sewage digester gas
North Hempstead						y	y	y	y-hybrids	y- fuel cell, solar under consideration, wind		y	y				y	
Oyster Bay	05,06		Committee	y		y	y		y - bifuel, electric		y		y	y	under consideration		y	
Riverhead	2006	y	Committee	y		y	y			y- solar planned				y		solar, + wind code	y	solar trash compactors
Shelter Island																		
Smithtown		y				y	y	y	y- CNG, biodiesel	y- solar planned, wind	y-15%		y					
Southampton	2005	y				y					y			y for affordable				
Southold			Committee	y							y					wind code	y	
Suffolk County	2005	y	Staff	y		y	y	y	y biodiesel, hybrids, 2 GEM	y- solar	y-15%	y		(N/A)	y			

* Solar is divided into 3 categories: installed, planned site, and under consideration but no site determined yet. Installed sites include: Babylon Town Hall and Annex- both 10kw; Hempstead Town Hall, Lido Beach Conservation & Waterways Building, and Aquaculture Facility- all 10kw; Islip DEC yard near airport; Suffolk Police headquarters in Yaphank. Planned solar sites include: Brookhaven solar car-port at Town Hall, Hempstead 10kw at Marine lab, Nassau Eisenhower Park, Riverhead modular recreation administration building, and Smithtown recycling center; Solar being considered for location: Huntington and North Hempstead.

Suffolk County Townships



Town of Babylon

Adopted Clean Energy Action Plan: Yes

Adopted Energy Star Homes Policy for New Construction: Yes (First Town on LI to do so)

Adopted LEED Standard for Commercial Construction over 4000 sq ft: Yes

Building Efficiency and Retrofitting:

- Planning to update windows and lighting.
- Planning major retrofit; in 1st phase of NYPA energy audit of Town Hall; evaluating RFPs from ESCOs

Greening Fleets:

- Town is a stakeholder of LI Clean Cities Coalition
- Have purchased 17 hybrids, 5 more on order
- 8 GEM cars currently in use
- Installed biodiesel tank at Town central fueling facility - all DPW diesel trucks are using biodiesel blend. Continuing to evaluate performance of biodiesel for possible expansion.
- Partner to a NYSERDA grant for hydrogen-powered vehicle (wind-generated electrolysis of hydrogen)

Renewables:

- 10kW solar installed at Tanner Park and about to be installed on Town Hall
- Installing one fuel cell unit at town hall.
- We are purchasing 10% of energy through green choices started 5/10/05 - 7 year agreement with Community Energy - 1,563,525 kwh/yr. Looking into small wind turbines.



Policy & Decision Making; Public Outreach:

- Regularly participates in *Clean Energy Leadership Task Force* meetings
- Town is partnering with US Green Building Council and LI Builders Institute in building a Zero energy home in Wyandanch as an educational model open for viewing for several months and will then become available as affordable housing.
- Passed Staff conservation policy to turn off equipment at night and purchase energy star labeled office equipment
- Information on clean energy is posted on Town website and in annual Town calendar.
- Hosted a full day LEED workshop with US Green Building Council.
- Babylon is a 'Cool City' committed to reducing CO2 12% by 2012.
- Distributing CFLs to all 60,000 households in Town.

Town of Huntington

Adopted Clean Energy Action Plan: Yes

Adopted Energy Star Homes Policy for New Construction: Yes

Building Efficiency and Retrofitting:

- Have upgraded heating/cooling systems, windows, lighting, and exterior doors
- Town is in the planning stages of considering LEED standards for municipal buildings.

Greening Fleets:

- Town is a stakeholder in LI Clean Cities Coalition

- Have purchased:
 - 6 Honda hybrids
 - 4 GEM cars
 - 4 John Deere electric lawn tractors
 - An electric zamboni
 - 6 Ford escape hybrids
 - 8 Toro workman plug-ins
- Planning to purchase 3 more Ford escape hybrids with GLICCC funding, 2 hybrid buses and 1 all electric bus, as well as retrofitting a diesel garbage truck to be hybrid.



Renewables:

- In the process of selecting a facility to install solar panels.
- Town is looking at streamlining permit process for solar installations.

Policy & Decision Making; Public Outreach:

- Regularly participates in *Clean Energy Leadership Task Force* meetings
- Adopted a policy to allow alternative fueled vehicles to park for free at downtown meters and train station.
- Adopted a policy on staff conservation and turning off equipment at night
- Established policy to purchase only Energy Star office equipment.
- Hosted a PV seminar two years in a row with LIPA and RELI.

Town of Smithtown

Adopted Clean Energy Action Plan: No

Adopted Energy Star Homes Policy for New Construction: No

Building Efficiency & Retrofitting:

The Town Department of Parks, Buildings & Grounds has over the last 10 years converted all buildings to high efficiency natural gas heat, upgraded to thermal windows, installed locking thermostats, upgraded to fluorescent lighting, installed additional thermal insulation, etc. An energy audit of the recycling center has been completed; audits of other Town buildings are planned.

- Retrofit of Materials Recovery Facility (MRF) planned.

Greening Fleets:

- Adopted policy whereby 100% of new non-emergency vehicle purchases shall be alternative fuel vehicles if available.
- January 2007 the Town fielded the first 100% CNG fueled refuse collection fleet outside of the State of California (there are only three such fleets in California) - twenty-two (22) dedicated CNG fueled refuse collection trucks.
- Clean Energy-New York State CNG vehicle fueling station in Hauppauge is the largest CNG vehicle fueling station on the East Coast.
- Buying two new dedicated CNG fueled snowplows, two new dedicated CNG fueled street sweepers, two new dedicated CNG fueled vans, three new dedicated CNG fueled one ton dump trucks, four new dedicated CNG fueled pick-up trucks, one new dedicated CNG fueled Crown Victoria patrol car, and one new gasoline-electric Ford Escape hybrid.
- Re-powering two snowplows to run exclusively on CNG. existing Town alternative fueled vehicle fleet of three dedicated neighborhood electric vehicles, three flex-fuel (E85 capable) sedans, five gasoline electric hybrids and a bi-fuel CNG-gasoline pick-up truck.
- Town plans the installation of 3 biodiesel dispensers, one in each of the Town's major fleet yards.
- An E85 tank and dispenser is being proposed for installation in 2008.
- Three GEM electric cars.



Renewables:

- Installation of a photovoltaic system at the Town recycling center was funded (not yet installed).
- Installation of a small wind generator at the Town recycling center is planned in 2008.
- Purchasing 15% of the Town's power through Green Choices program for several years.

Policy & Decision Making / Public Outreach:

- Regularly participates in *Clean Energy Leadership Task Force* meetings
- Town officials serve on the Board of Directors of the Greater Long Island Clean Cities Coalition (GLICCC) and Congressman Steve Israel's Energy Taskforce.
- Town officials have helped plan educational events including a GLICCC session on alternative fuels for the refuse industry, and a number of press events for our CNG refuse collection project.
- Staff office conservation policy in place.

Town of Islip

Adopted Clean Energy Action Plan: No

Adopted Energy Star Homes Policy for New Construction: No, but under consideration

Building Efficiency and Retrofitting:

- Town has upgraded heating /cooling systems and lighting

Greening Fleets:

- Passed resolution to phase in the use of alt fuel vehicles over the next 5 years - already purchased hybrid Ford rangers for the DEC.
- Goal for coming year is to convert existing diesel DPW fleet to diesel CNG; to convert DPW and Parks & Rec garbage trucks to electric (battery with diesel powered generators)
- Goal for coming year is to complete CNG conversions and encourage local fire & ambulance departments that fuel up through the Town of Islip to make CNG conversions as well.



Renewables:

- Solar PV at DEC yard at compost facility near airport
- Fast tracked solar installations; no impediments in solar code

Policy & Decision Making; Public Outreach:

- Regularly participates in *Clean Energy Leadership Task Force* meetings
- Town will be reducing our fleet and tightening our buildings, and further encouraging energy efficiency and recycling throughout the Town of Islip.
- Adopted staff policy of turning off computers/lights at night
- Town DEC has programs that reach elementary schools within the town
- We are working with Long Island Transportation Management (LITM) to encourage ride-sharing- as well as installing bike racks at most Town Buildings to encourage bicycle use.
- Hosted a forum on green building with local chapter of US Green Building Council, and 2 educational solar seminars with LIPA.

Town of Brookhaven

Adopted Clean Energy Action Plan: Yes

Adopted Energy Star Homes Policy for New Construction: Yes - helped develop original bill

Building efficiency & retrofitting:

- Audit of Town Hall and Highway & Parks buildings done, and Town Hall Energy Plan prepared in 2005. Town will be upgrading its chiller system and hopes to save \$75,000 annually. Complete replacement of Town Hall “chillers” planned.
- Town plans to adopt LEED standards for Town owned buildings during 4th quarter 2007.
- Using LED interior lights at Town Hall and energy efficiency street lights.

Greening Fleets:

- Town has been using biodiesel since 2002 (has used 563,000 gallons to date), compressed natural gas (CNG) since 2004, 1 GEM electric car, and began purchasing hybrid vehicles in 2005.
- First municipal CNG fueling station in Suffolk County located at Town of Brookhaven Highway Yard in Coram

Renewables:

- Island’s first solar carport (40kw) planned for Town Hall parking lot under a NYSERDA grant.
- Installed a 10kw wind turbine in 2003 on Town Hall property.
- Solar PV to be installed at Safetytown Educational at Holtsville Ecology Site.

Policy & Decision Making; Public Outreach:

- Brookhaven has attended every Clean Energy Task Force meeting since 2004. Town has established an internal Clean Energy Action Plan Working Group.
- Town installed motion sensors, and staff has been requested to shut off lights at end of workday. Town updated computerized system for more efficient control of heating and cooling systems.
- Town adopted an energy star office equipment purchasing policy in June 2007.
- Public education through “Green Gazette.”



Town of Riverhead

Adopted Clean Energy Action Plan: Yes

Adopted Energy Star Homes Policy for New Construction: Yes

Building Efficiency and Retrofitting:

- In the process of upgrading lighting
- Energy audits have been conducted on our major facilities including Town Hall & the Human Resource Center. Analysis still underway.
- Required Energy Star construction for new home construction after April 2007.

Greening Fleets:

(Nothing on green vehicles “yet”)

Renewables:

- Solar PV will be installed on new modular recreation Administration Building
- Adopted a Wind energy code
- We have modified our building code requirements to reduce impediments to encourage solar panel installations. (reduced fees)
- Currently have 3 solar powered trash compactors in our parks and are considering purchasing additional units.

Policy & Decision Making; Public Outreach:

- Regularly participates in *Clean Energy Leadership Task Force* meetings
- Energy advisory committee has scheduled a series of presentations at the Riverhead Library and elsewhere on Peak Oil, solar technology, etc.
- Researching appropriateness of energy usage threshold or carbon footprint which would automatically elevate action/proposal to a Type I under SEQRA.

Town of Southold

Adopted Clean Energy Action Plan: No

Adopted Energy Star Homes Policy for New Construction: No

- Adopted a code for small scale wind generators
- Purchases 100% of its energy through wind power through the Green Choices program.
- Has held a successful series of public education events relating to clean energy and peak oil
- Has attended several *Clean Energy Leadership Task Force* meetings



Town of Shelter Island

(Data Not Available)

Town of Southampton

Adopted Clean Energy Action Plan: Yes

Adopted Energy Star Homes Policy for New Construction: Yes, but for affordable homes only

Building Efficiency and Retrofitting:

- LIPA energy audits of Town Hall and Town Police Station.
- LIPA review of new systems prior to purchase.
- LEED (Leadership in Energy and Environmental Design) certified agency hired to assist development of new Town Office park facilities.

Greening Fleets:

- Fuel efficient vehicle purchased as pool vehicle; purchase of alternative fuel vehicles under current consideration.
- Review of specifications of all new vehicles required to identify potential comparable alternative fuel vehicles.

Renewables:

N/A

Policy & Decision Making; Public Outreach:

- Regularly participates in *Clean Energy Leadership Task Force* meetings

Town of East Hampton

Adopted Clean Energy Action Plan: Yes

Adopted Energy Star Homes Policy for New Construction: No, but being considered

Building Efficiency and Retrofitting:

- Performed an energy audit
- Have upgraded or is in process of upgrading heating/cooling systems, lighting, insulation
- Performing a major municipal facility building retrofit; participating in LIPA's commercial construction program

Greening Fleets:

- Electric car/carts being used for traffic control
- Two hybrids were purchased last year and more are anticipated in this year's budget

Renewables:

- Town plans to purchase 50 to 100% of our energy through the Green Choice Program starting 2008
- Purchased a solar-powered trash receptacle/compactor and plan on more of them

Policy & Decision Making; Public Outreach:

- Regularly participates in *Clean Energy Leadership Task Force* meetings
- Formed internal Town Clean Energy Task Force
- Adopted a staff conservation policy to turn off equipment at night
- Adopted policy to purchase only Energy Star labeled office equipment
- We have passed a local ordinance compelling first voluntary compliance and then mandatory compliance with reduced and redirected outside lighting at residential and commercial properties.

Speakers and Topics at Clean Energy Leadership Task Force meetings, 2004 to Present

March 2004—Town of Brookhaven

- Welcome: Supervisor LaValle
- Overview of program: Paul Belnick, Manager, Statewide Energy Services Program, NYPA
- LIPA Clean Energy Initiative (CEI): Sharon Laudisi, Alex Nyilas, Todd Romano
- Introduction to Greater Long Island Clean Cities Coalition: Ron Gulmi, Keyspan

June 2004—Town of Oyster Bay

- Welcome: Oyster Bay Supervisor Venditto & Town Clerk Labriola
- Kathleen Whitley, Applied Energy Group, NYSERDA's Solar grant available to municipalities
- Web-based discussion forums & public outreach assistance: Gordian Raacke, Renewable Energy L.I.
- LIPA and NYPA, side by side comparison of programs: Todd Romano of LIPA CEI, and Skip Hodge of NYPA

October 2004—Town of Babylon

- Welcome: Babylon Supervisor Bellone
- Green Choices: - Dan Kimlicka, LIPA Green Choices; Joe Barclay, Sterling Planet; Keith Christensen, Community Energy
- LIPA's 75mw reduction program: Gary Krieger, Electric Marketing/Conservation Program Manager, LIPA; Jason Gallo, Johnson's Controls; Robert Boyajieff, Honeywell, Terry Divine, Custom Energy

March 2005—Suffolk County

- Briefing on Global Climate Destabilization: Beth Fiteni, Neighborhood Network
- Suffolk County's 2005 Energy Action Plan: Suffolk County Executive Steve Levy
- Fuel cells - David Hamilton, Plug Power
- Case Studies, and the criteria for determining your Action Plan - Gordian Raacke, RELI

July 2005—Molloy College Suffolk Campus

- LIPA solar rebate increase for municipalities: Mark Dougherty, LIPA
- Offshore Wind project: Gordian Raacke, RELI
- LED lights—municipal uses: Jim Leitner, NYPA
- LEED "Leadership in Energy & Environmental Design": Peter Caradonna, Architect, US Green Building Council

October 2005—Huntington Townhouse

This meeting included an expo with exhibitor tables.

- Nassau Clean Energy Action Plan: Nassau County Executive Tom Suozzi
- Energy Star Labeled Homes: Sharon Laudisi, LIPA & Neal Lewis, Neighborhood Network
- Distributed Generation: John Rathbun, KeySpan Energy; Bill Cristofaro, Energy Concepts; Andy Garsils & Mark Dougherty, LIPA; Peter Giasemis Capstone Turbine Corp.; Herby Healy, United Technologies Corp. (UTC); Scott Herland Ingersol Rand; Leo Cagliostro, All Systems Cogeneration; Mike Wilson, Energy Solutions
- Huntington Clean Energy Action Plan: Huntington Supervisor Frank Petrone
- Suffolk County police headquarters in Yaphank energy efficiency project: Brad North, Constellation Energy Projects and Services Group

March 2006—Molloy College Suffolk Campus

- Welcome: Edward Thompson, Vice Pres. of Advancement, Molloy College
- Setting greenhouse gas emissions reduction targets: Neal Lewis, Neighborhood Network
- Keynote—National energy update & LI's leadership role in clean energy: Congressman Steve Israel

- Federal tax incentives: Charles Goulding & Jacob Goldman, Energy Tax Savers
- LIPA Recap program: Randy Spitzer & Gary Krieger, LIPA
- Energy Star Labeled Homes: Harry Davitian, LIA Energy & Environment Committee Chair

August 2006—Brookhaven Town Hall

- Welcome: Brookhaven Supervisor Foley
- Panel: ENERGY STAR® Labeled Homes, Legislative proposal: Councilwoman Connie Kepert, Town of Brookhaven; Bob Weiboldt, LI Builders Association; Frazier Dougherty, HERS rater; Phil Austen, LIPA
- Solar powered trash compactors: Alex Perera - Seahorsepower
- Clean Cities—funding sources and Plug-In Hybrid buses: Andria Adler, Greater Long Island Clean Cities Committee (GLICCC)
- LED Holiday Lights: Rene'e Bywaters, LED Gen Lighting
- US Mayors Climate Agreement: Bob Muldoon & Neill Clenaghan, Sierra Club

December 2006—Sweet Hollow Hall, Suffolk County West Hills Park

- Welcome: Carrie Meek Gallagher, Suffolk Commissioner of Dept. of Environment & Energy Affairs & Todd Stebbins, Assistant County Executive
- Municipal Spotlight—Suffolk County: Javed Ashraf, P.E., C.E.M., Energy Engineer, DPW
- LIPA's RECAP Program: Gary Krieger and Dan Zaweski, LIPA CEI; Terry Divine, Custom Energy; Paul Rode, Johnson Controls
- NYPA program update - Skip Hodge
- New Biodiesel Plant in Bohemia, NY: David Butler, CEO, American Biofuels
- Babylon Town, Commercial Green Building Law: Dorian Dale, Babylon Town Energy Director

April 2007—Molloy College Suffolk Campus

- Introduction to ICLEI's programs and software: Kim Lundgren, ICLEI-Local Governments for Sustainability, Northeast Regional Capacity Center
- Town Spotlight—Babylon: Dorian Dale, Babylon Town Energy Director

October 2007—Molloy College Suffolk Campus

- Suffolk ban of incandescent bulbs in government buildings: Legislator Wayne Horsley & Todd Stebbins, Suffolk County
- Stop Throwing Out Pollutants (S.T.O.P.) programs for disposal of fluorescent bulbs: Beth Fiteni, Neighborhood Network
- Saving energy by phasing out bottled water in municipal buildings: Steve Jones, SCWA; Assemblyman Robert Sweeney
- Technology: Solar Thermal Water Heaters: Ron Kamen, EarthKind Energy
- Municipal Spotlight—Nassau County: Brad Tito, Assistant to the Director of the Environment, Nassau County

December 2007- Molloy College Suffolk Campus

- Keynote—Status of LIPA Clean Energy Initiatives: Kevin Law, LIPA CEO
- Peak Oil—What it means for LI: Isidore Doroski, Chairman of the Riverhead Town Energy Advisory Committee,
- Smart Growth as a Strategy for Reducing Energy Demand: Eric Alexander, Vision Long Island
- Municipal Spotlight—Brookhaven: Dennis Lynch, Brookhaven Town
- Green Levittown project: Brad Tito, Nassau County
- Uniform solar PV requirements: Bruce Humenik, Applied Energy Group

Sample Clean Energy Action Plan

The County/Town of _____ adopts the following set of goals for 2008:

1. To identify municipal facilities to target for energy audits; and to meet with LIPA and discuss their commercial construction program for building retrofits, and meet with NYPA to discuss their financing program for building retrofits.
2. To create an internal energy task force, or assign a commissioner to collect data and analyze the possibilities, within a given timeline for action.
3. To select a priority energy efficiency project involving one major facility which incorporates a comprehensive set of clean energy technologies. (For example, retrofitting the Town Hall with energy efficient lighting fixtures and windows, a geothermal heating and cooling system, etc.)
4. To adopt one (or a few) easily implemented technologies across many facilities. (For example, changing “exit” light fixtures to energy efficient LED light bulbs in several municipal buildings.)
5. To pass an Executive Order mandating green building practices for all new construction and major renovations of town owned facilities.
6. Strengthen building code to include Energy Star Labeled Homes requirement for new home construction.
7. To create a policy to phase in alternative fuel (e.g. natural gas, biodiesel, etc.) and/or hybrid vehicles into the municipal vehicle fleet.
8. To evaluate which municipal facility might be best suited for an installation of solar panels/wind and prepare applications for funding of a solar/wind project.
9. To review town building codes and evaluate the need for changes that will eliminate unnecessary impediments to using renewables and energy efficient improvements (i.e. solar photovoltaics).
10. To purchase “green power” through the Green Choices program.
11. To adopt a policy of purchasing Energy Star rated office equipment.
12. To pass an Executive Order making energy efficient workplace practices a mandate. This would include motion sensors, turning off computers at night, bottle-less water coolers etc.
13. To continue to participate in the Clean Energy Leadership Task Force's tri-annual meetings to continue being informed about clean energy technologies and financial incentives available to municipalities.

Produced by the
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*Healthy Environment,
Strong Communities,
Accountable Government*

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clean energy projects to make Long Island greener.

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