



WELCOME

Long Island Power Authority (LIPA) New York ENERGY STAR® Labeled Homes (NYESLH) Program Moves from Voluntary to Code

Presented by:
Sharon Laudisi, LIPA
Gary Krieger, LIPA
Dave Beaulieu, CSG





Background

NYESLH Program was introduced on Long Island in 2005 with the goals to:

- **Enroll more builders in the New York ENERGY STAR[®] Labeled Homes Program**
- **Increase the number of new homes built to ENERGY STAR[®] standards**
- **Reduce energy use**



NYESLH Program Snapshot

- **Recruits reputable builders**
- **Provides competitive marketing advantage**
- **Offers thousands of dollars in marketing support, advertising & building incentives, and building science training**
- **Requires builder partners to build new homes to a Home Energy Rating System (HERS) score of 84 or the National Builder Option Package (BOPS)**



NYESLH Program Snapshot (cont.)

- Promotes energy efficient construction at the local level
- Benchmarks a national model for advancing energy efficiency
- Provides support, materials, and program education to builders, raters, subcontractors, Long Island Builder's Institute (LIBI) members, building design professionals, town officials, and consumers
- Coordinates the marketing & implementation activities of its implementation contractor



NYESLH Program Snapshot (cont.)

- Keeps builder partners ahead of the curve as Long Island towns begin to adopt the NYESLH standards as residential new construction code!



Voluntary vs. Code

In towns that yearly build more than half of Long Island's 4-5,000 new homes, ordinances have passed requiring building to LI, NYESLH standards by April 2008

Standards **HIGHER**
than those of the National Program.



Voluntary vs. Code

How will Long Island's initiative succeed when other municipalities have failed?

- **By having obtained endorsement and support of New York State Builder's Association (NYSBA) and LIBI, both instrumental in developing code phase-in periods for incremental ramp up prior to full implementation in April 2008.**



Voluntary vs. Code

LIBI endorsed the new code because:

- **Proven paybacks for homeowners are too rapid to ignore**
- **Building industry must help reduce fossil fuel dependency**
- **Code requirements create a market volume large enough to achieve economy of scale (lower per unit cost for high SEER equipment, more choices, etc)**
- **Voluntary program was working, but slowly**
- **Significant coalition support**
- **Need uniform standards to avoid separate versions**



Voluntary vs. Code

How will Long Island's initiative succeed when other municipalities have failed?

- **LIPA is working with LIBI, The New York State Builder's Association (NYSBA), town code officials to ensure that smooth, effective & streamlined inspection and labeling processes are established AND effectively communicated.**



Voluntary vs. Code

How will Long Island's initiative succeed when other municipalities have failed?

- **By moving compliance away from the building code officials and placing responsibilities into the marketplace.**



Voluntary vs. Code

How will Long Island's initiative succeed when other municipalities have failed?

- **Encourage open, two-way communication**
- **Remove the burden of enforcing ENERGY STAR® standards from the building code officials. ENERGY STAR® verification will be conducted, similar to the national program, by independent Home Energy Raters of Long Island.**



Voluntary vs. Code

How will Long Island's initiative succeed when other municipalities have failed?

- **Changing local codes to ENERGY STAR® levels can be accomplished at no taxpayer expense**
- **The local economy gets a boost by creating Rater jobs**
- **Getting buy-in from local home builders, as allies, once the benefits were communicated**



Program Development

Before code takes effect LIPA will:

- Along with LIBI & NYSBA, train and certify raters and educate builders
- Incentivize training of raters, builders and subs
- Partially fund outreach efforts
- Provide loans and grants for purchasing testing equipment
- Ensure quality assurance of the rating process
- Offer \$25,000 in training support for towns adopting ENERGY STAR® as code



Program Development

A comprehensive training regime to support the builders and towns was developed:

- **Trainings for builders, code officials, trade contractors, and new raters are offered monthly, are modular, allow easy access, and schedule flexibility**
- **Training support is essential for overall success and is foundational to delivering the ENERGY STAR[®] Labeled Homes product**



Program Development

Successful adoption of ENERGY STAR[®] standards requires comprehensive training for the entire industry including:

- **Builders**
- **Subcontractors - especially insulation & HVAC**
- **Building officials**
- **Inspectors**
- **The local builder's association**



Program Development

The impending demand requires an increase in the number of well-trained Raters:

- **In response LIPA developed a rater apprenticeship program for raters who pass the HERS test & desire intense training over and above the HERS classes and initial ratings. New raters work under the tutelage of LIPA's implementation contractor as their short-term provider.**



Program Development

Success Also Depends on the Raters to:

- Conduct plan reviews
- Continue training builders & subcontractors to meet the ENERGY STAR® standards
- Provide technical assistance during construction
- Conduct inspections and blower door & duct blaster performance tests upon completion
- Generate the necessary paperwork to document compliance



ENERGY STAR® Town Code Requires

- **The Builder Option Package as established by LIPA, or Achieving a home energy rating of 84 or higher**
- **In addition:**
 - Include a total of 500-kilowatt hours of savings per unit
 - Include an automatically controlled mechanical ventilation system
 - Comply with the NYESLH Combustion Safety Testing Standards & Procedures

Complete code available:

<http://www.generalcode.com/webcode2.html>

Go to New York, Town of Brookhaven





Program Development

Ongoing LIPA will:

- Provide oversight, tracking and quality assurance monitoring to ensure HERS rater adherence to the national and New York standards
- Continue to support these and other beyond-code efforts through their mandate to transform their markets to become more energy efficient



Future

LIPA cannot justify providing financial support to what is mandated by law so:

After a few years of helping foster the code transition the bar will be raised again to build even more efficient homes, with the ultimate target being zero energy homes!



Wrap-up

Do the Math!

The average cost to upgrade a new home to ENERGY STAR® Home standards is about \$4,000 - for upgrades and Rater's fees:

- The savings that accrue will more than pay for the upgrades the first year
- Financing \$4,000 as part of the house price adds about \$300 per year to the mortgage payments
- Annual energy cost savings of \$1,150 will more than off-set this payment increase, resulting in about \$850 positive cash flow starting in the first year



Contact Information:

Sharon Laudisi
Long Island Power Authority
Clean Energy Program Manager
slaudisi@lipower.org
516.719.8617

Gary Krieger
Long Island Power Authority
ENERGY STAR® Homes Program Manager
gkrieger@service.lipower.org
631.755.5342

Dave Beaulieu
Conservation Services Group
Director Residential Energy Efficiency Programs
David.Beaulieu@csggrp.com
631.590.5700

