

Launching a Municipal Residential Energy Efficiency Retrofit Program



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T H E
B A B Y L O N  P R O J E C T

building green homes, green jobs & green communities

12x12 Initiative to Combat Global Warming

Babylon commits to reduce
carbon footprint 12% by 2012

- Hook fuel cell to Town Hall
- 10% town electric from wind
- All new passenger vehicles hybrid/Smart Cars
- CFL to every home in town

Energy Star Standards for New Home Construction

- Added to Town Code in August, 2006
- First Town on Long Island
- 11 of 13 LI Towns Follow



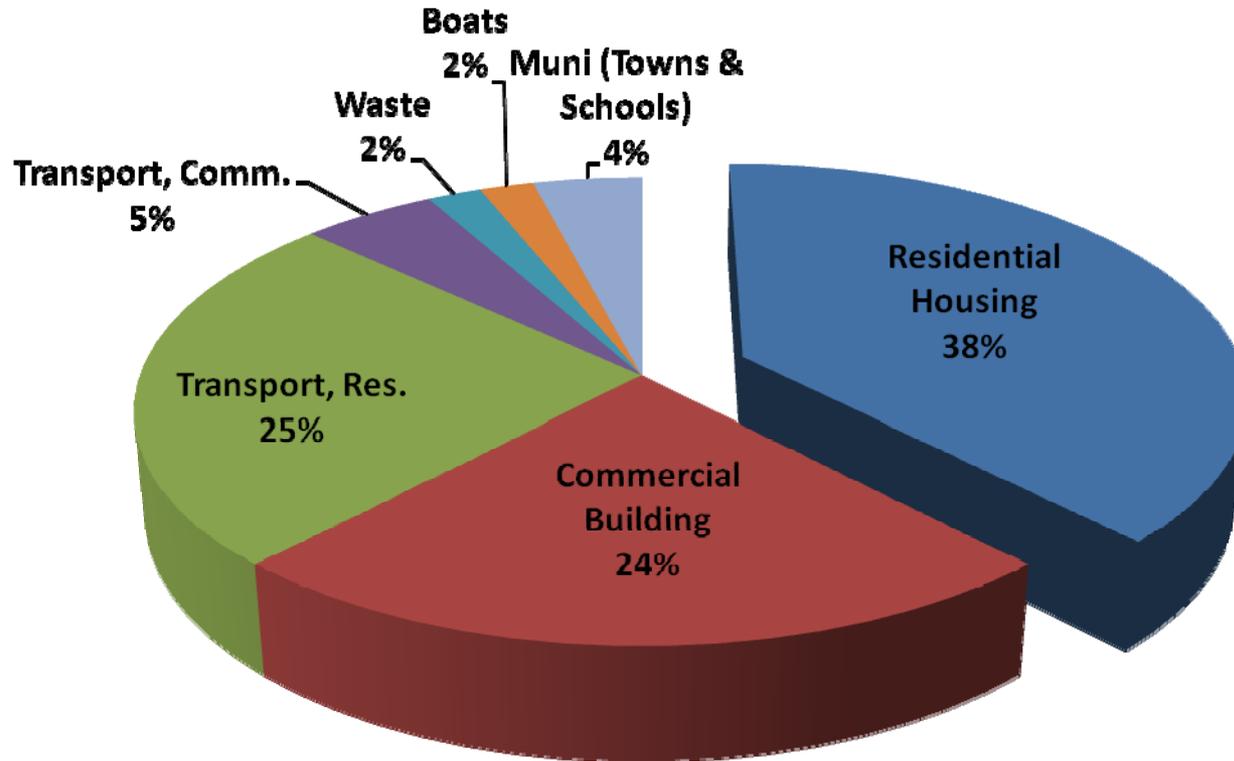
Most Comprehensive Green Building Code in the Nation

Requires all new commercial and industrial construction
over 4,000 square feet to meet LEED standards



Tanger Outlet Mall

Babylon's Consumption



Residential housing accounts for 38% of the Town's energy consumption, adding 1,146,690 tons of CO₂ into the air every year.

GREEN HOMES

green your house, slash your energy bill, reduce your carbon footprint...
at little or no cost to you.



Major Hurdles

Homeowners unwilling to spend \$\$\$ on improvements they can't see or touch

Municipality will finance up to \$12,000 in improvements

Major Hurdles

Added debt burden in tough economic times

*Municipality will apply a benefit assessment on the home –
homeowner assumes no new debt,
pays for improvements with energy savings*

Major Hurdles

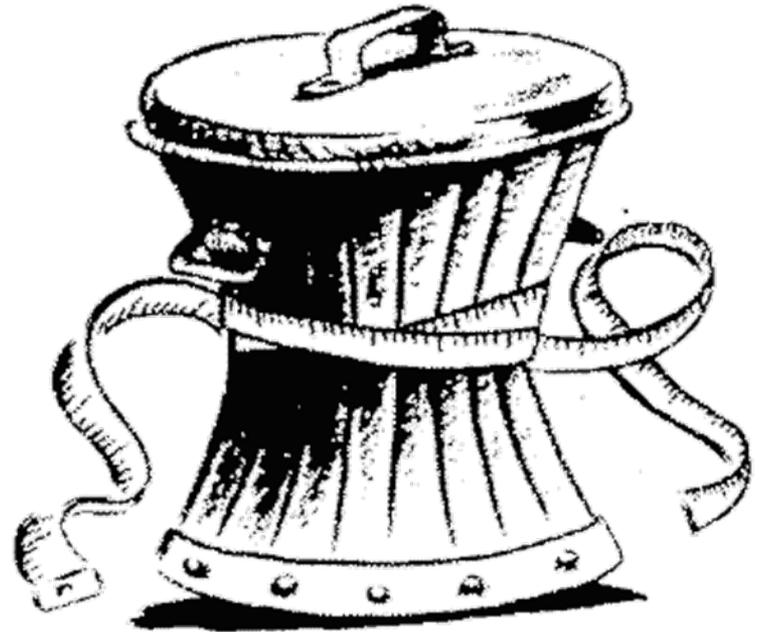
Homeowners considering moving
will not make improvements

*Benefit assessment runs with the
house, not the homeowner*

Major Hurdles

Financing

Redefining solid waste to include energy waste based on its carbon content



GREEN HOMES Pilot

- 158 Homes audited and/or completed
- Average cost of improvements: \$7,202.96
- Average annual savings to homeowner: \$985.90
- Average payback period: 7.8 years
- 23.5% increase in Green Jobs



National GREEN HOMES Program

Retrofitting just 5% of America's homes would represent a \$24 billion investment and:

- Reduce CO₂ emissions by **16 million tons**
- Create **399,000** clean energy jobs
- Save homeowners **\$3.7 billion** annually

How GREEN HOMES Stacks Up



\$24 billion investment in Green Homes programs displaces 16 million tons of CO₂



\$24 billion investment in

WIND ENERGY

3.07 million tons of CO₂ (5.2:1 ratio)

How GREEN HOMES Stacks Up



\$24 billion investment in Green Homes programs displaces 16 million tons of CO₂

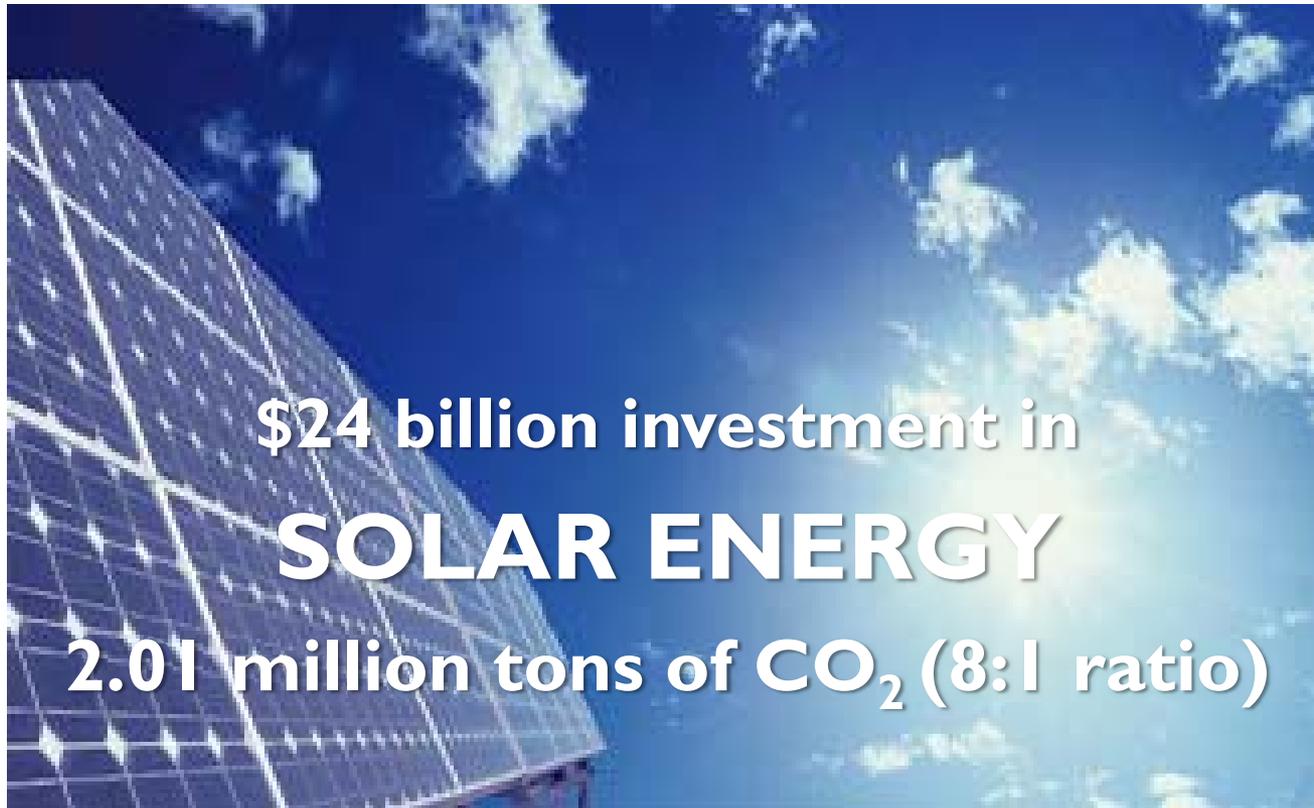


\$24 billion investment in
OFFSHORE WIND ENERGY
1.92 million tons of CO₂ (8.3:1 ratio)

How GREEN HOMES Stacks Up



\$24 billion investment in Green Homes programs displaces 16 million tons of CO₂



Program Development

4 Pillars of the Green Homes Program

- Good Leadership
- Good Policy
- Good Management
- Good Contractors

How GREEN HOMES Stacks Up



\$24 billion investment in Green Homes programs displaces 16 million tons of CO₂



\$24 billion investment in replacing SUVs with

HYBRID CARS

3.45 million tons of CO₂ (4.6:1 ratio)

Why GREEN HOMES is the Right Model

Locally-based, bottom-up approach is most effective

Local governments:

- are closest to the people
- have control over building and planning functions
- can guarantee repayment by placing on tax bill

Achieving Scale

Workforce Development

- Building upon the existing contractor base
- Small business assistance
- Effective labor-management forum

Achieving Scale

Workforce Development

Labor Issues

- Opportunity for Labor
- Training is critical
- Creative apprenticeship and trade classification structures

Achieving Scale

Workforce Development

Labor Issues

- Work before workforce development
- Prevailing wage rates yet to be determined
- Jurisdictional issues remain

Green Jobs or Green Careers



President Obama's Challenge

- *“Let’s figure out what projects, what investments are going to give the American economy the most bang for the buck, how can we protect taxpayer dollars,...create the jobs that are so desperately needed, and spur on economic growth and business creation in the private sector.”*
 - *November 18, 2008*

Meeting the Challenge – **GREEN HOMES**



THE
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www.thebabylonproject.org