Monthly Municipal Forum

Implementing a Residential PACE Program

March 21, 2012





Together, providing a platform for sharing PACE information and experiences with others

Today's presenters:



Dorian Dale, Energy Director & Sustainability Officer, Town of Babylon, NY ddale@townofbabylon.com



Sheila Berger, Dept. Analyst, Sonoma County Energy Independence Program Sheila.Berger@sonoma-county.org



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Welcome!

Today's agenda:

- Welcome and Introductions
- 3. **Babylon, New York's Residential PACE Program**Dorian Dale, Energy Director and Sustainability Director, Town of Babylon
- 4. Sonoma County's Residential PACE Program
 Sheila Berger, Department Analyst, Sonoma County Energy Independence Program
- 5. Q & A

Discussion Items

- A. Overview of residential programs and metrics
- B. Impact of federal mortgage regulators
- C. Considerations before launching a program
- D. Challenges and Lessons Learned

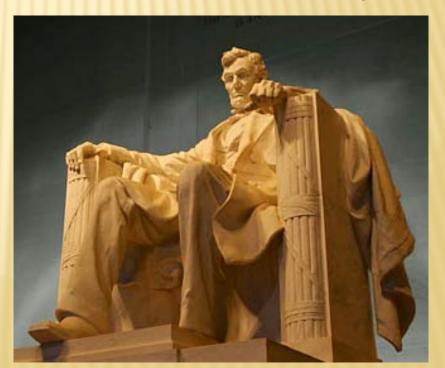


ROADMAP TO RECOVERING WASTED ENERGY SAVING LIVELIHOODS AND MONEY IN THE PROCESS

GREEN HOMES 12-STEP SET-UP

1- BIG CHAIR BUY-IN

It starts with <u>Leadership</u>
Where there's a will,
There are multiple ways



2-EFFICIENCY DELIVERED EFFICIENTLY



If you're asking people to become an

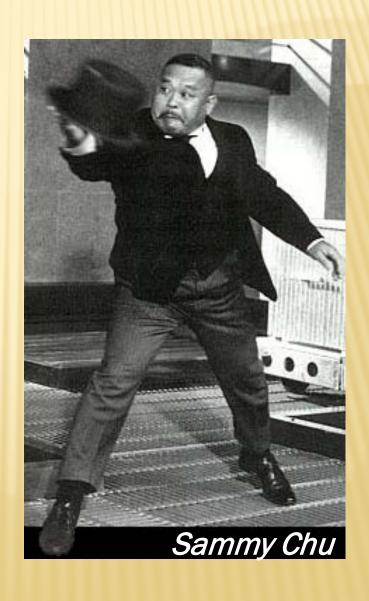


Then your operation better be about



3-IDENTIFY OPERATIONS OFFICER

- Program Director
- ✓ Dep Com/DPW
- ✓ Ran 100-man crew
- Master Electrician
- ✓ IBEW member
- Experienced contractor
- ✓ Keen on green
- ✓ Smart
- Ambitious



4-STAKEHOLDER ENGAGEMENT



- ✓ Town Attorney
- ✓ Contractors
- ✓ Utilities
- ✓ Unions
- Weatherization Provider
- ✓ Parallel Programs

4A-IT'S ENOUGH TO AMAZE



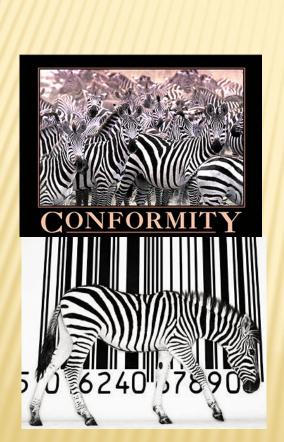
Don't reinvent the wheel...

5-PROGRAM UNIFORMITY

- Loading order
- Comparable pricing
- > 1.8 S.I.R.
- \$15K cap (\$8.4Kavg)
- > 10yrs max payback
- \$1.1K+ yr svgs



6-CODE CONFORMITY/CLASH



expanded definition of solid waste to include energy waste, based on its carbon content

- 1. Solid + Energy = Waste
- 2. Contractor certification
- 3. State Improvement District
- 4. No Cash for Caulkers
- 5. FHFA PACE Derailment

7-ID A BILLING SYSTEM

- Utility on-bill
- Benefit Assessment
- Separate Waste bill
- Muni Water bill
- Semi-annual tax bill



8-RETAIN/REPURPOSE SUPPORT STAFF



- > Senior staffer in place
- > In-house PD
- Hire outside PD
- Adjutant provisional hire
- In-take/Outreach hourly
- Comptroller type P/T
- College/seasonals

9-STAKE OUT SPACE AND EQUIPMENT

- √ Blower door test rig
- ✓ InfraRed camera
- ✓ Combustion safety
- ✓ Analytic Energy software
- ✓ Program paraphernalia
- ✓ Dedicated vehicle(s)



10-SET UP WEB-SITE Snugg Home

About Us http://ligreenhomes.com/about_us

Long Island Green Homes (LIGH) is a Town of Babylon program that helps homeowners make energy efficiency improvements, by financing all of the upfront costs.





building green homes, green jobs & green communities

www.thebabylonproject.org

Homeowner of the month



My home had a few very drafty rooms.
After I participated in the program, I couldn't believe how bad my home was prior to the improvements.

11-DRAW ATTENTION



March March

- Public-Private Persuasion
- Massage Media
- Suburban Guerilla
- PennySaver Promo
- Asymmetric Messaging
- Tightfisted Tips
- Viral Marketing in Analog World

11A-COST CUTTING COOL

Community Currency







Capturing Coupon Clippers

12-STIR & ADD HOMEOWNERS

The Value of Green...

Cost

Comfort

Convenience



MUNICIPAL DELIVERY MODEL

TRUSTED

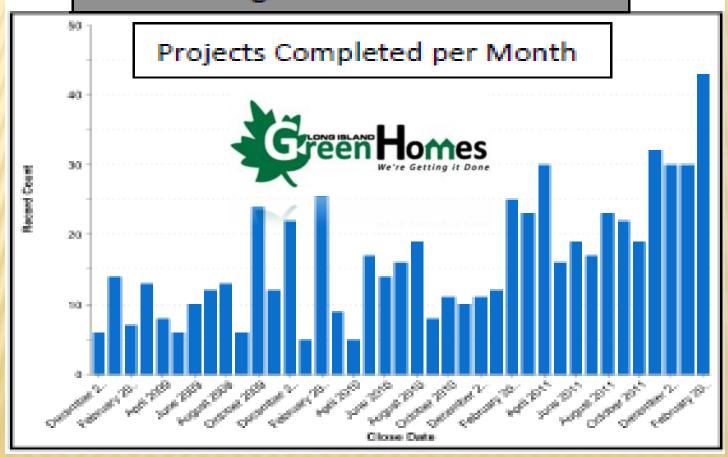
S O U R C



DEEP RETROFITS AS OF 3/1/12

Jobs Completed: 652
Audits Completed: 1,321

Jobs in Progress: 665



COST & SAVINGS

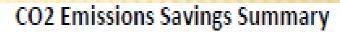


Total Cost of Completed Jobs:	\$6,394,399
Average Cost of Completed Jobs:	\$9,807
Average Annual Savings per Job:	\$1,149
Average Payback Period (years):	8.72
Average SIR (Savings to Investment Ratio):	1.79
Average HVAC Cost:	\$2,422
Average DHW Cost:	\$859
Average Basement Insulation Cost:	\$1,096
Average Attic Insulation & Airsealing Cost:	\$3,550
Average Wall Insulation Cost:	\$1,203
Average Lighting Cost:	\$44
Average Window Cost:	\$85
Average Miscellaneous Cost:	\$502
Average Comfort & Safety Cost:	\$24

NECESSITY IS THE MOTHER



expanded definition of solid waste to include energy waste, based on its carbon content

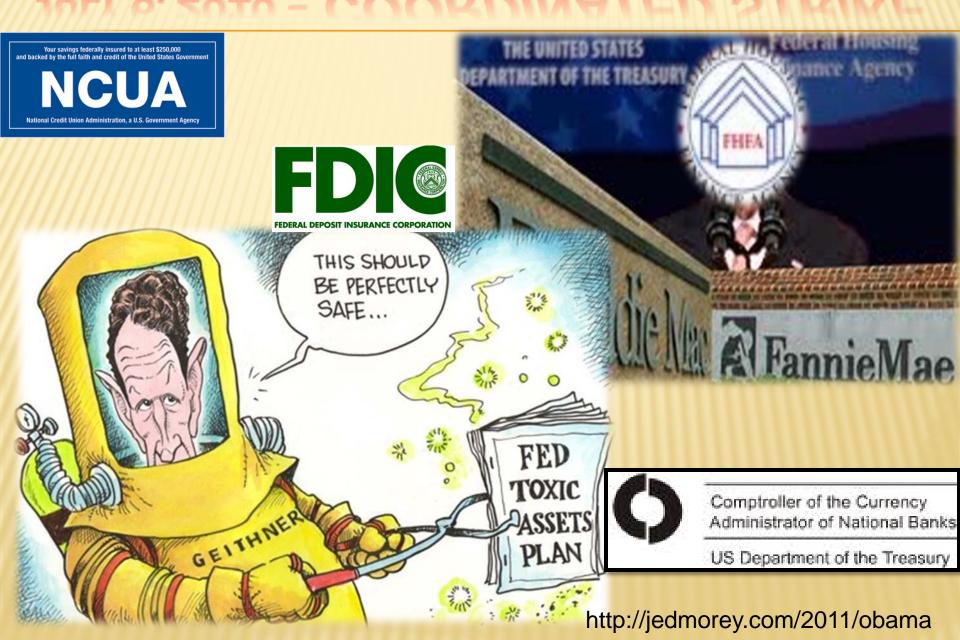


Total CO2 Emissions Saved Annually (lbs):	6,143,674
Total Solid Carbon Saved (lbs):	1,720,229
Total CO2 Emissions Saved Annually (tons):	3,072

Energy Savings Summary

Total Electricity Saved Annually (kWh):	340,579
Total Oil Saved Annually (Gal):	222,365
Total Natural Gas Saved Annually (CCF):	68,468
Total Propane Saved Annually (Gal):	5,340

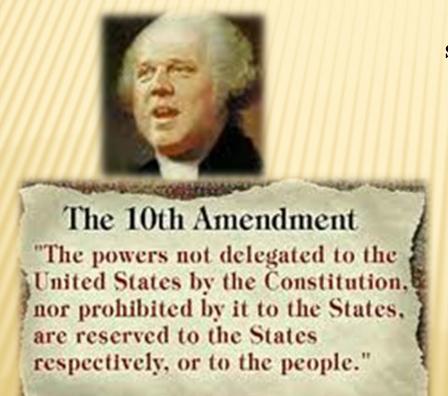
JULY 6, 2010 - COORDINATED STRIKE





Levering to Spread the Field





Precedent Set by FHFA:

Abrogation of sovereign capacity of state & local government to determine what constitutes a public purpose.

Assessments in Jeopardy







Sonoma County Energy Independence Program

SCEIP opened March 2009 to both residential and commercial customers

County-wide program (all 9 cities and towns + unincorporated county)

1635 residential participants, funded between \$2,500 and \$206K (\$28K avg.)

Eligibility for Residential (≤ 4 units) Applications

- Improvements (more than 85 to choose from!) permanently affixed to the property
- No new construction or repairs (except as needed for improvement installation)
- Within geographical boundaries of the county
- Applicants are legal owner(s) of property, not underwater or property tax delinquent
- May request up to 10% market value of the property
- Property must be on the County tax rolls
- 10% EE requirement for renewable funding**
- Energy analysis recommended, not required**

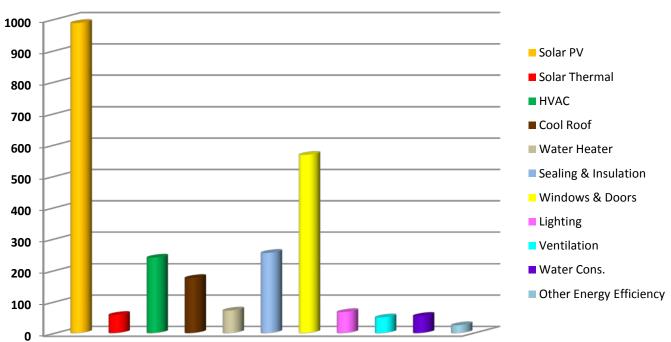








1635 Residential Projects Funded by SCEIP \$45.7 Million, 2554 Improvements



Impact

Jobs: 531 (ARRA), 49 Local Construction

Solar PV: 5.7 MW, 988 systems, 3,459 tons eCO2 annual reduction





Impact of Federal Mortgage Regulators

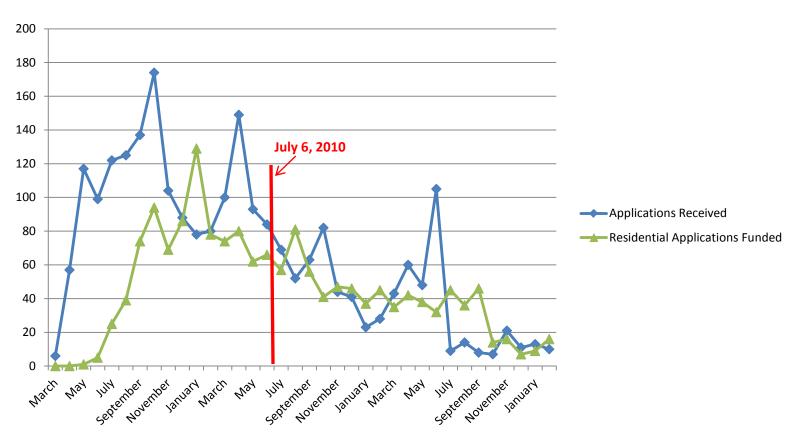
- FHFA instructions to mortgage lenders issued July 6, 2010
- Program closed doors for a week, reopened July 13, 2010 with some changes:
 - ➤ All residential participants notified via US mail of FHFA action and offered opt-out option (pre-payment with no penalty)
 - New disclosure added to application requiring signature of all owners on title
 - > Sonoma County entered into litigation against the FHFA
- Residential program participation dropped slightly

03/21/12 SKB 6





Impact of Federal Mortgage Regulators



03/21/12 SKB 7





Building a Flourishing Program: Things to Consider

- Community Goals, Political Will and Market for PACE
- Identify Partners: public, private, education and non-profits
- Work with Stakeholders: Mortgage Lenders, Contractors, Local Utilities
- Strategic and Business planning
- Program Funding: start-up, operating, project
- Administrators, Staffing, Steering Committee, Legal Team, Financing Team
- Program Delivery: a Storefront and/or Web Site
- Staff & Workforce Tools and Training
- Marketing, Education & Outreach

02/21/12CKB





Operating a Flourishing Program: Things to Expect

- Success!
- Constant change!
- On-going contractor relationships!
- A mountain of data!
- Expanded service opportunities!









Lessons Learned

- ✓ Create a Strategic Plan and a Business Plan early in the program development stage
- ✓ Develop a comprehensive marketing plan with a realistic budget
- ✓ Beware the unintended consequences of making program changes
- ✓ Consider restrictions on funding sources before accepting
- ✓ Keep the message simple

03/21/12SKB





No matter WHERE your PACE program operates.....

...its planning and design will follow the same fundamental recipe.

Property Assessed Clean Energy (PACE) Replication Guidance Package for Local Governments



March 30, 2012









PACENOW

Together, providing a platform for sharing PACE information and experiences with others



Questions?

PACENow

www.pacenow.org

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Energy Independence Program

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