

# Energy Smart

**New Orleans City Council Utility Committee Update**

**July 19, 2012**

# Agenda

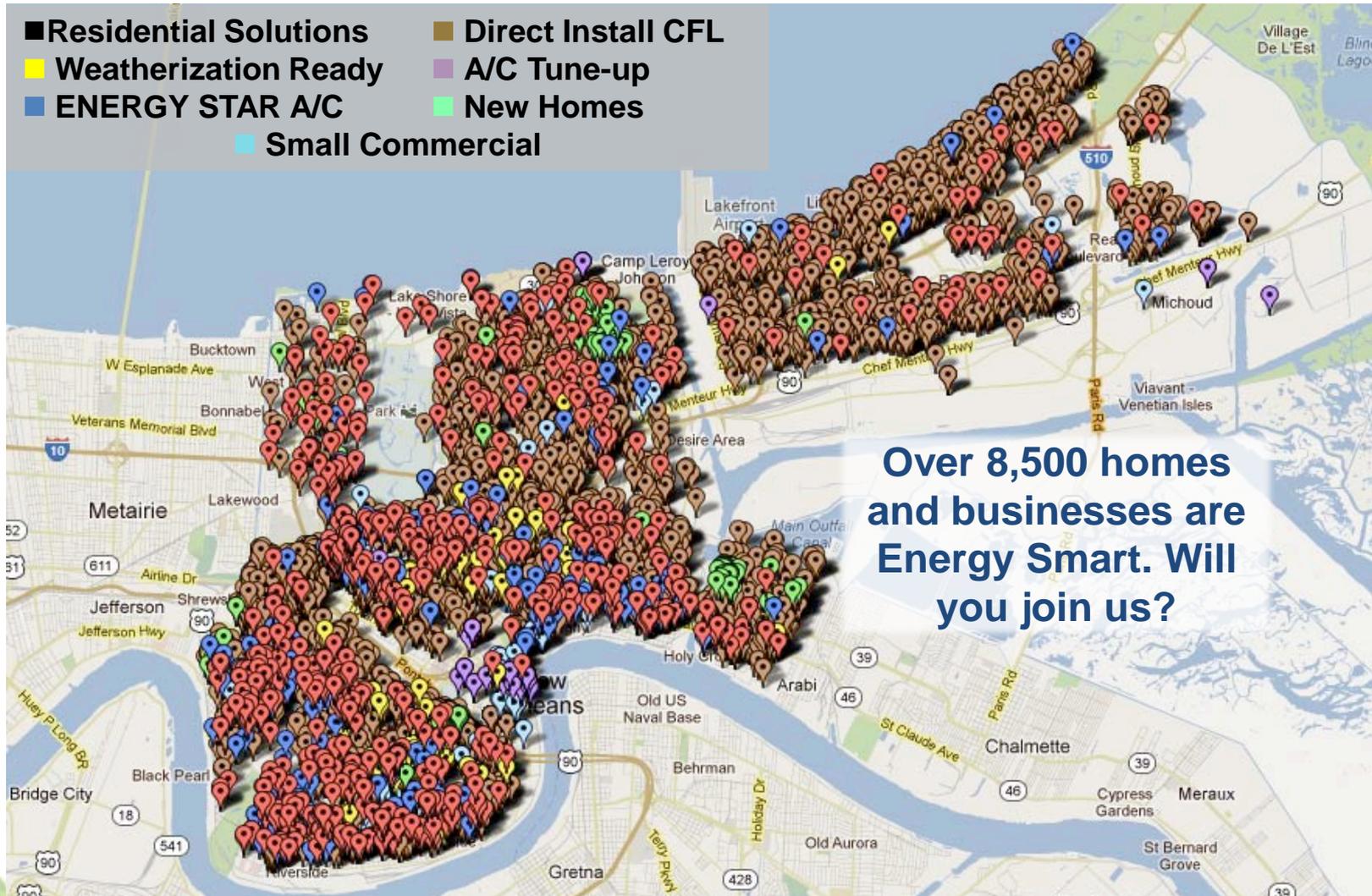
- ✦ Year 1 Results
- ✦ Year 2 Program Enhancements
- ✦ EM&V and Deemed Savings Review
- ✦ Energy Smart : Year 2 Goals

# First Year Results

# Milestones & Accomplishments

- ✦ Over 8,500 New Orleans businesses and residences participated in the first year!
  - Saved over 15 million kWh, enough to power nearly 1,300 homes for an entire year.
  - Over 600 residential energy audits performed and over 400 measures installed.
  - 90,000 energy efficient light bulbs installed in over 4,000 homes.
  - Over 2,000 low income residents received energy efficiency measures and free A/C tune-ups.

# Energy Smart Participants



# Energy Smart Programs

## Energy Smart Year 1 - Participation/Savings

Program Name	# of Participants	# of Measures	kWh Goal	kWh Saved	CO <sub>2</sub> Reduction (lbs)	% of Goal
Residential	8,432	129,468	7,449,910	8,003,144	44,817,608	107%
Commercial	102	120	6,360,792	7,809,811	43,633,548	123%
Pilot Programs	331	333	428,100	0	0	0%
<b>Totals</b>	<b>8,871</b>	<b>129,877</b>	<b>14,238,802</b>	<b>15,812,955</b>	<b>87,322,351</b>	<b>111%</b>

# Residential Programs

## Energy Smart Year 1 - Residential Participation/Savings

Program Name	# of Participants	# of Measures	kWh Goal	kWh Saved	CO <sub>2</sub> Reduction (lbs)	% of Goal
Residential Solutions	2,016	31,868	651,656	3,080,830	17,252,648	473%
Energy Star Air- Conditioning	218	262	883,627	134,655	754,068	15%
A/C Tune-up	719	909	882,739	429,291	2,404,030	49%
Energy Efficient New Homes	101	101	1,266,391	207,067	1,159,575	16%
CFL Direct Install	4,931	90,254	3,424,013	3,726,006	20,865,635	109%
Low Income	445	6,073	81,699	419,857	2,351,199	514%
Solar Water Heater Pilot	2	2	259,785	5,438	30,453	2%
<b>Totals</b>	<b>8,432</b>	<b>129,468</b>	<b>7,449,910</b>	<b>8,003,144</b>	<b>44,817,608</b>	<b>107%</b>

# Commercial Programs

Energy Smart Year 1 - Participation/Savings						
Program Name	# of Participants	# of Measures	kWh Goal	kWh Saved	CO <sub>2</sub> Reduction	% of Goal
Small Commercial	78	78	2,230,328	2,231,265	12,495,084	100%
Large Commercial	24	42	4,130,464	5,578,546	31,138,464	135%
<b>Totals</b>	<b>102</b>	<b>120</b>	<b>6,360,792</b>	<b>7,809,811</b>	<b>43,633,548</b>	<b>123%</b>

# Pilot Programs

## Energy Smart Year 1 - Participation/Savings

Program Name	# of Participants	# of Measures	kWh Goal	kWh Saved	CO <sub>2</sub> Reduction (lbs)	% of Goal
In Home Display Pilot	298	300	428,100	0	0	0%
Solar PV Monitoring Pilot	33	33	0	0		N/A
<b>Totals</b>	<b>331</b>	<b>333</b>	<b>428,100</b>	<b>0</b>	<b>0</b>	<b>0%</b>

# YEAR 2 PROGRAM ENHANCEMENTS

# Year 2 - Program Enhancements

## ✦ Residential Solutions

- Recognized as Home Performance with ENERGY STAR® program
  - Promotes “Whole House approach”
    - Emphasizes audit
    - Increased education for customer
    - Customer receives “pre” and “post” audit testing
  - ENERGY STAR highly recognized label
  - Encourages Auditors/Contractors to promote whole house energy efficient upgrades
  - Auditor Incentive changes (effective Aug 1)

# Year 2 - Program Enhancements

- ✦ Audits include estimated energy savings to help customer prioritize upgrades
  
- ✦ Homeowners receive a Certificate of Completion detailing
  - Customized list of upgrades
  - Documents contractor and date of upgrades
  
- ✦ Encourages contractors to offer full suite of energy efficiency services
  - Promotes business expansion

# Home Performance Certificate

## Home Performance with ENERGY STAR® Summary of Energy Improvements Performed



### Home Address:

OWNER NAME  
Address  
City, State, Zip

### Work Performed by:

Company Name

### Work Verified by:

Company Name

### Work Completed on:

Month 00, Year

*Warren Allison*

Program Representative (Signature Optional)  
Program Manager

### Home Performance Improvements:

(Sample List)

- Air Sealing Performed
- Attic Insulation Increased to R-30
- Wall Insulation Added
- Ducts Sealed
- Seer 14 Air Conditioning Installed
- 90% AFUE Furnace Installed
- High-Performance Windows Installed
- ENERGY STAR Qualified Dishwasher and Refrigerator Installed
- 5 ENERGY STAR Qualified CFLs Installed

Home Performance with ENERGY STAR® offers a comprehensive, whole-house approach to home improvement that results in better energy efficiency, greater comfort, and lower energy bills.

ENERGY STAR is a voluntary partnership sponsored by the U.S. EPA and U.S. DOE to protect the environment through superior energy efficiency.



HOME PERFORMANCE WITH  
**ENERGY STAR**

# Year 2 - Program Enhancements

## ✦ Residential Solutions

- Addition of Radiant Barrier
  - Reduces attic heat gain; keeps attic cooler
- Increase Multi-Family opportunities
  - Expands opportunity for renters to participate in Energy Smart
  - Measures: duct sealing, A/C tune-ups, low-flow, CFL's

## ✦ Direct Install CFL savings

- Log installation fixture locations to increase accuracy of savings

# Year 2 - Program Enhancements

## \* Weatherization Ready for Low Income Qualified

- Addition of Central A/C Tune Ups/ minor repairs and maintenance education
- Room A/C replacement
- Installation of weatherization measures
  - Insulation
  - Air sealing
  - Duct insulation
  - Minor energy efficiency related repairs

# EMV and DEEMED SAVINGS REVIEW

# Deemed Savings

- ✿ Recommendations - HVAC measures
  - Update Residential and Commercial coincidence factor to match current Consortium for Energy Efficiency (CEE) specifications (0.8 vs. 1.0)
  - Ensure consistent methodology for deriving full load hours. Add to deemed savings document.
    - Residential - based on ENERGY STAR's AC & Heat Pump savings calculator
    - Commercial - based on regression modeling from publically available sources.
  - Lowers kW and kWh savings per measure

# Deemed Savings

- ✿ Recommendations - HVAC measures (including chillers)
  - Utilize 2008 federal standards, rather than ASHRAE 90.1 2007, as baseline for retrofits
  - Action
    - For new construction and replacement on burnout the baseline will be ASHRAE 90.1 2007
    - For early retirement retrofit, the baseline will be based on the existing equipment's manufactured year and the corresponding ASHRAE 90.1 standard that was effective during that year.

# Deemed Savings

## ✧ Commercial Lighting measures

### ■ Recommendation

- Develop strategy to account for baseline shift due to new federal standards regarding phase out of T-12 bulbs.

### ■ Action

- Evaluating best practices regarding new federal standard as related to estimated useful life (EUL) to account for the diminishing life of T12 Baseline systems .

# ENERGY SMART YEAR 2 GOALS

## Energy Smart Year 2 & 3 – Target Savings

Program Name	kWh Goal	% Increase from Yr 1	kW Goal
Residential Solutions	868,874	33%	293
Low Income	122,250	50%	30
Energy Efficient New Homes	2,308,671	82%	492
CFL Direct Install	4,565,349	33%	660
Energy Star A/C	1,178,169	33%	347
A/C Tune Up	1,176,985	33%	648
Solar Water Heater Pilot – Year 1	259,785	0%	39
Small Commercial	2,230,328	0%	322
Large Commercial	4,130,464	0%	636
<b>Totals</b>	<b>16,581,090</b>	<b>16%</b>	<b>3,428</b>

# Contact EnergySmart



PHONE Call toll-free (866) 721-0249

WEBSITE [www.EnergySmartNOLA.info](http://www.EnergySmartNOLA.info)

EMAIL [Info@EnergySmartNOLA.com](mailto:Info@EnergySmartNOLA.com)

## ENERGY SMART INFORMATION CENTER

Robert E. Smith Branch (6301 Canal Blvd) Library  
Staffed Wednesdays 10:00 am– 1:00pm through August

# QUESTIONS?