

# 2008 Solar Annual Review Meeting

## Session: PV MT Activities

### Technical Assistance for Solar America Cities, Solar America Showcases, and Government Solar Installation Program (GSIP)

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# FY08 Progress Report



Through a competitive process, DOE selected 13 Cities:

- Ann Arbor, MI (Sandia-led)
- Austin, TX (Sandia-led)
- Berkeley, CA (NREL-led)
- Boston, MA (NREL-led)
- Madison, WI (Sandia-led)
- New Orleans, LA (DOE HQ-led)
- New York, NY (NREL-led)
- Pittsburgh, PA (Sandia-led)
- Portland, OR (NREL-led)
- Salt Lake City, UT (NREL-led)
- San Diego, CA (NREL-led)
- San Francisco, CA (NREL-led)
- Tucson, AZ (NMSU-led)

Twelve new cities will join the original 13 as part of the program beginning in mid-FY 2008.



# FY08 Progress Report

Top successful activities working with cities include:

- 1) Several cities have (or are about to), with assistance from tiger teams, developed solicitations for PV systems. This includes 5-7 MW PPA on municipal buildings in San Francisco, 1 MW in Tucson, and 2 MW in New York.
- 2) With tiger team assistance, San Diego has analyzed PV system performance of two large City-owned PV system, and plans to evaluate several tariff options using analysis results.
- 3) In SLC, a PV installer course will create a solar work force.
- 4) In New Orleans, code officials are being trained in PV.
- 5) With assistance from tiger teams, comprehensive solar plans have been developed in Madison and Pittsburgh
- 6) Solar “Best Practices” Study underway in Austin



# Government Solar Installation Program



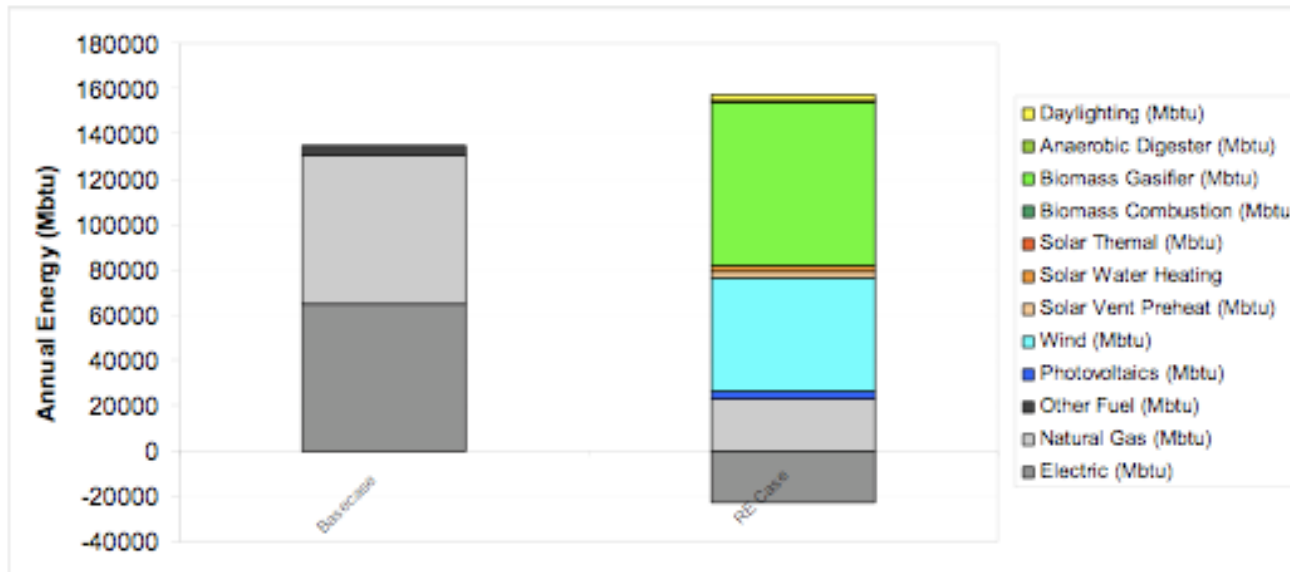
Two GSIP projects were conducted in Washington, DC:

- National Zoo, Smithsonian--conducted jointly with FEMP (solar water heating for Elephant Trails project, and evaluation of net zero energy scenario for Zoo)
- Architect of the Capitol (solar energy opportunities on Congressional Office buildings)



- GSIP Highlight: Analysis of “Zero Energy Zoo” Scheme

Figure 1. Annual energy from each technology at each facility (with base case).





# Solar America Showcases



## Forest City:

- PV warehouse analysis
- SHW performance monitoring
- Hybrid PV-Thermal Systems
- Solar Adoption Survey
- PV Grid-Integration Analysis



## San Jose:

- Solar Finance Options
- Solar Site Evaluations
- Solar Economic Development

# Obstacles and Goals



## 1. FY08 Obstacles and Goals:

- a) What obstacles are preventing greater market penetration?  
*Greater involvement by many more cities, showcases, and government projects would improve prospects for market penetration*
- b) What are your plans to overcome these obstacles? *We will take the lessons learned from the 07 cities to hit the ground rapidly with 2008-selected projects*
- c) What activities are you planning for the rest of the FY 2008?  
*We seek synergies--opportunities to educate more municipalities at once via workshops and Web-inars. Financing options for R.E. projects are poorly understood by cities.*

# Obstacles and Goals (concluded)



## 2. FY09 and Beyond:

*a) What new or different activities are necessary to increase market transformation?*

We plan to expand our efforts by communicating successful strategies across and among cities, and by hosting Web-based and live seminars on topics of relevance to many municipalities, especially in the area of financing mechanisms.

We will need to gather performance data from the field to feed back into our Test and Evaluation, Reliability efforts.

We need to be inventive and prepare for projects to deploy TPP technologies into the field.

We will continue to support existing and new Showcase and GSIP projects as they are identified and selected by DOE