



Senate Bill 1 and the New Solar Homes Partnership

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California Energy Commission
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Senate Bill 1 Goals



Senate Bill 1 (SB 1) signed in 2006 directs the CPUC and the California Energy Commission to implement the California Solar Initiative. SB 1 established the following three goals:

- Install 3,000 megawatts (MW) of distributed solar photovoltaic (PV) capacity by the end of the program
- Establish a self-sufficient solar industry where solar energy systems are a mainstream viable option in 10 years
- Place solar energy systems on 50% of new homes by the end of the program



Senate Bill 1: California Energy Commission's role

- SB 1 requires the California Energy Commission to establish eligibility criteria, conditions for incentives and equipment rating standards for all ratepayer funded solar energy system programs in California
- On December 19, 2007, the California Energy Commission adopted the first edition of the Senate Bill 1 Guidelines, addressing SB1 mandates such as solar energy component standards, installation standards, energy efficiency, reporting requirements, effective dates, and other eligibility criteria
- On December 3, 2008, the California Energy Commission revised and adopted the second edition of the Senate Bill 1 Guidelines.



Other SB 1 Mandates for California Energy Commission

■ SB1 mandates

- ❑ Develop offset alternative for the developer or seller of production homes to forgo requirement to offer solar energy system on new homes
- ❑ Random PV System Performance Audit
- ❑ Cost / Benefit evaluation of increased solar systems on the electrical system
- ❑ Study whether solar systems should be required on all new construction.
The California Energy Commission has incorporated NSHP as voluntary level in new 2008 Building Efficiency standards and incorporated NSHP in State Green Building Standards
- ❑ Education and Outreach

New Solar Homes Partnership: Goals



- Self-sufficient solar industry
- 400 megawatts by the end of the 10-year program
- Place solar energy systems on 50% of new homes by the end of the program
- Title 24 +15% or +30% energy efficiency (based on 2008 Building Standards)
- High-performing PV systems



New Solar Homes Partnership: Program Eligibility

- 1 kW (alternating current) or larger, grid-connected
- Offset customer's electric load
- New certified components/10-year warranty
- Served by: PG&E, SCE, SDG&E, BVES
- New residential (single-family, multifamily, affordable housing)
- **Energy Efficiency:**
 - Minimum - Tier 1: 15% higher than current Title 24
 - Encouraged - Tier 2: 35% higher than 2005 Title 24 (or 30% higher than 2008 Title 24)



New Solar Homes Partnership: Incentive Levels

- **One time, up-front incentive, expected performance-based incentive**

- **Market-rate housing:**
 - \$2.50/watt* – base incentive (18-month reservation)
 - \$2.60/watt*- solar as standard (36-month reservation)

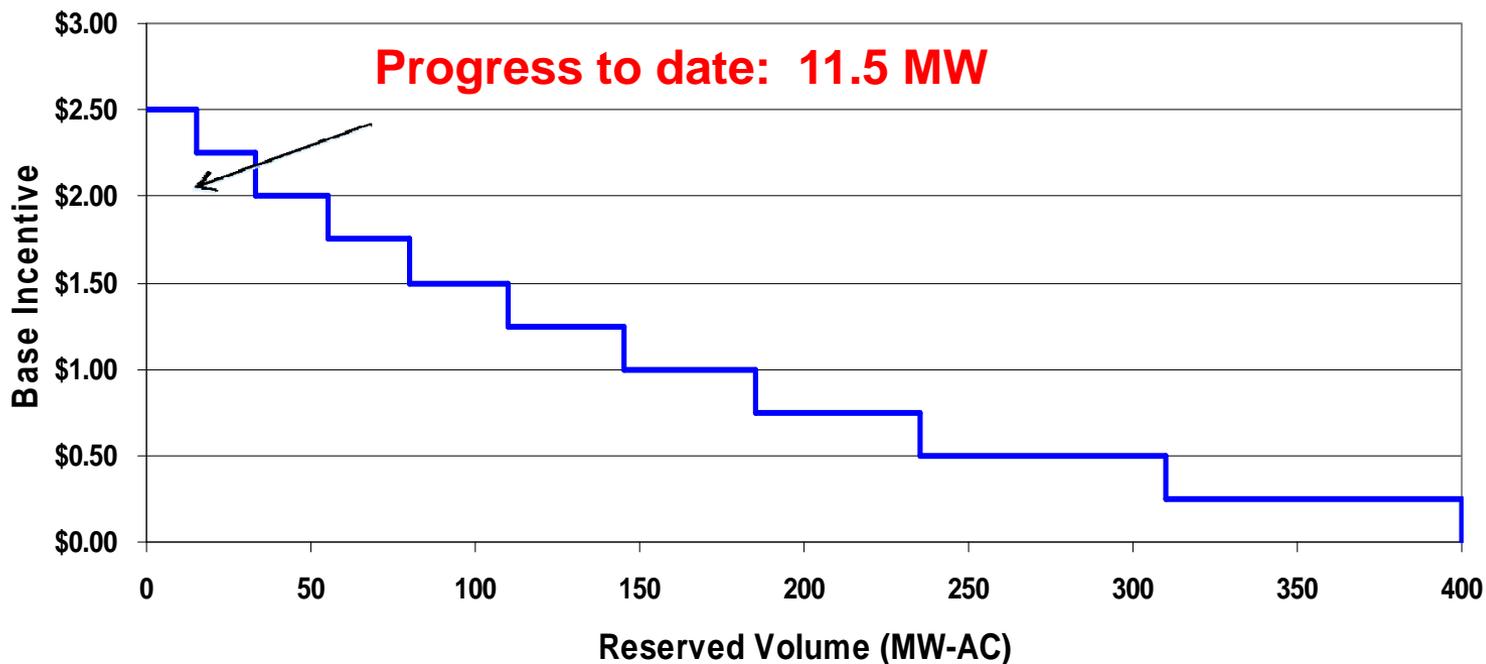
- **Affordable Housing:**
 - \$3.50/watt* for residential unit installations (36-month reservation)
 - \$3.30/watt* for common area installations (36-month reservation)

*Expected Performance-Based Incentive – varies by location, azimuth, tilt, and shading



New Solar Homes Partnership: Application Volume and Incentive Decline Design

- Incentives to decline based on volumetric MW targets, to reach zero over 10 year program duration





New Solar Homes Partnership: Program Activity

Total Number of Applications/Systems (Under Review, Approved or Installed)

Type	# of Applications	# of Systems
Custom Homes	232	232
Large Developments*	73	5,291
Other Developments**	26	127
TOTAL	331	5,650

New housing market has gone from 212,000 units per year to 70,000 units in 2008

*Solar as a standard feature in developments over 6 residential units, where a minimum of 50% of homes have installed solar systems

** Small developments under 6 units, developments where solar is an option, developments where solar is installed on less than 50% of the residential units



New Solar Homes Partnership: Program Activity

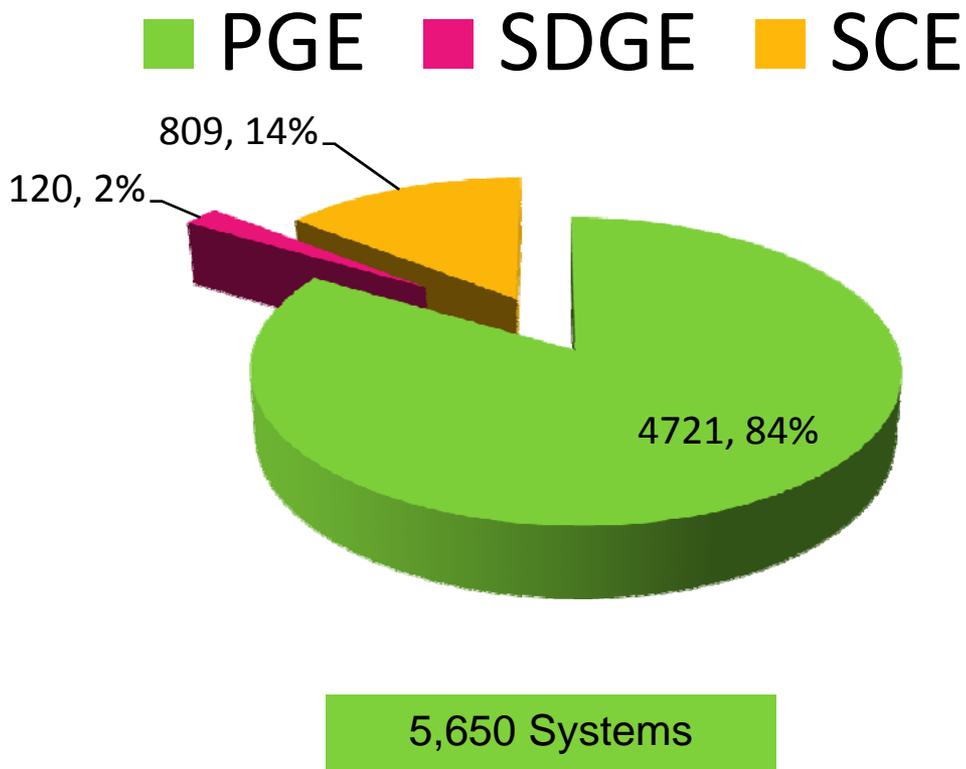
MW Capacity

TOTAL: 11.5 MW

Under Review	Approved	Installed
1.1 MW	9.2 MW	1.2 MW



New Solar Homes Partnership: Number of PV Systems by Utility Territory Applications (includes all “in-house” and installed applications) (Jan 2007- Nov 2008)



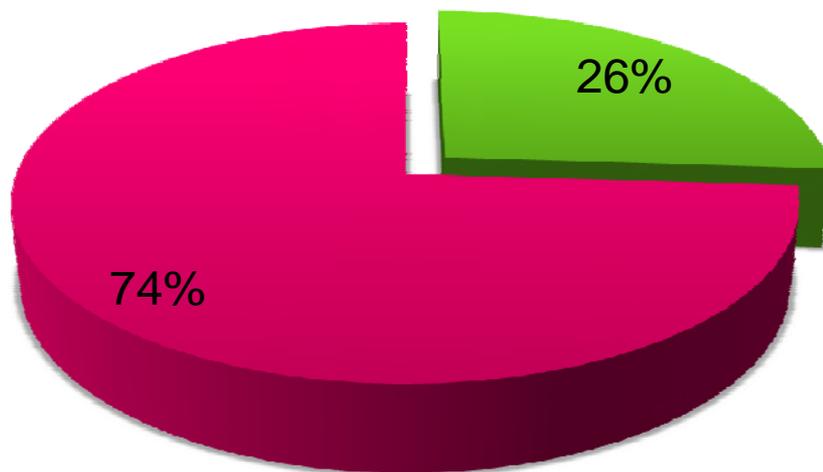


Energy Efficiency

(New Solar Homes Partnership Approved Systems)

Jan 2007 – Nov 2008

■ Tier I ■ Tier II





Other California Energy Commission New Solar Homes Partnership Activities

- NSHP Marketing Program:

- **Campaign Theme:**

Solar Is **Working**, Solar Is **Smart**, Solar Is **Now**



- California Utility Allowance Calculator Model (CUAC)

- Developed to improve financial viability of solar on affordable housing.

- Adopted by the Energy Commission at the November 18, 2008 Business Meeting. Expected to be used by affordable housing agencies and developers by spring 2009.



www.gosolarcalifornia.ca.gov



Save the Environment. Energy efficiency and solar power combine to reduce air pollution and greenhouse gas emissions.



NSHP Links

- [NSHP Main Page](#)
- [Plan for Energy Efficiency First](#)
- [NSHP Calculator](#)
- [NSHP Eligible Equipment](#)
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New Solar Homes Partnership Training

Training Events

There Are No Upcoming Events Available

WebEx instructions are now available through the workshop link above.

WebEx Tutorial Training Files

The New Solar Homes Partnership provides online training through WebEx tutorials. These tutorials were created as an additional training aid for the NSHP Web Tool application process. Please refer to the NSHP Guidebook and NSHP Help Manual for additional detailed information.

Please note: No software is needed; The WebEx player is automatically installed when you click the link to begin playback. Problems with playback? Please contact WebEx technical support at 1 866-229-3239.

Date	Title	Duration
10/23/08	Introduction to the Web Tool	00:42
10/24/08	Getting Started	02:52
10/23/08	Adding a Project and Associate	03:55
10/27/08	Adding Attachments	01:08



Questions

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