



CALIFORNIA ENERGY COMMISSION

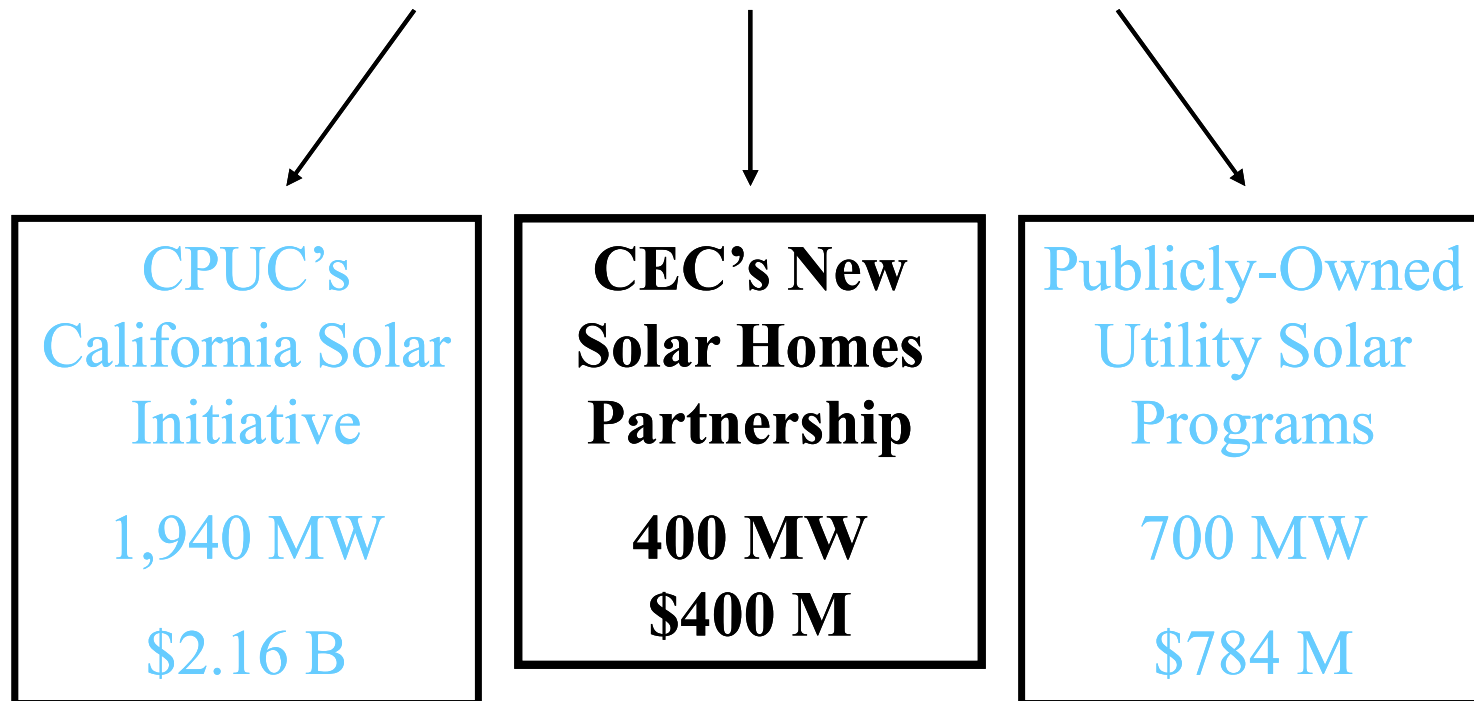
New Solar Homes Partnership (NSHP)

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Efficiency & Renewable Energy Division
California Energy Commission

CABEC Conference
San Luis Obispo, CA
May 6, 2010



California Solar Initiative





New Solar Homes Partnership Program Goals

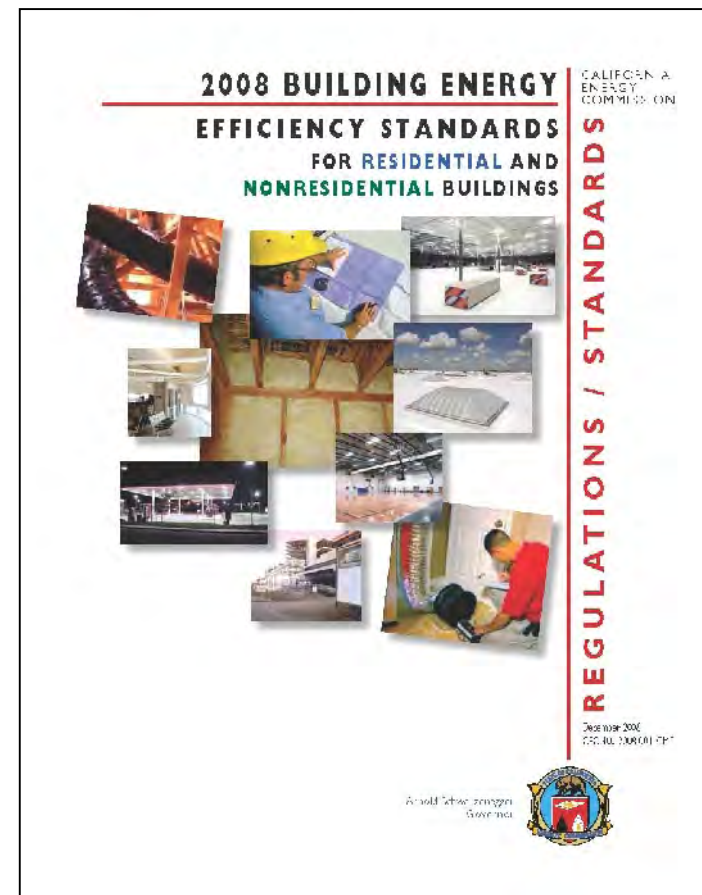
- **Establish a self-sufficient solar industry**
- **Achieve 400 megawatts of installed solar**
- **Solar energy systems on 50% of new homes**





New Solar Homes Partnership Program Eligibility

- **Located in one of four IOU territories (PG&E, SCE, SDG&E, BVES).**
- **New residential construction project**
- **Meets a minimum of 15% beyond current Title 24 Standards.**
- **System at least 1 kW AC or larger.**
- **System output will offset the end-use customer's electric load.**





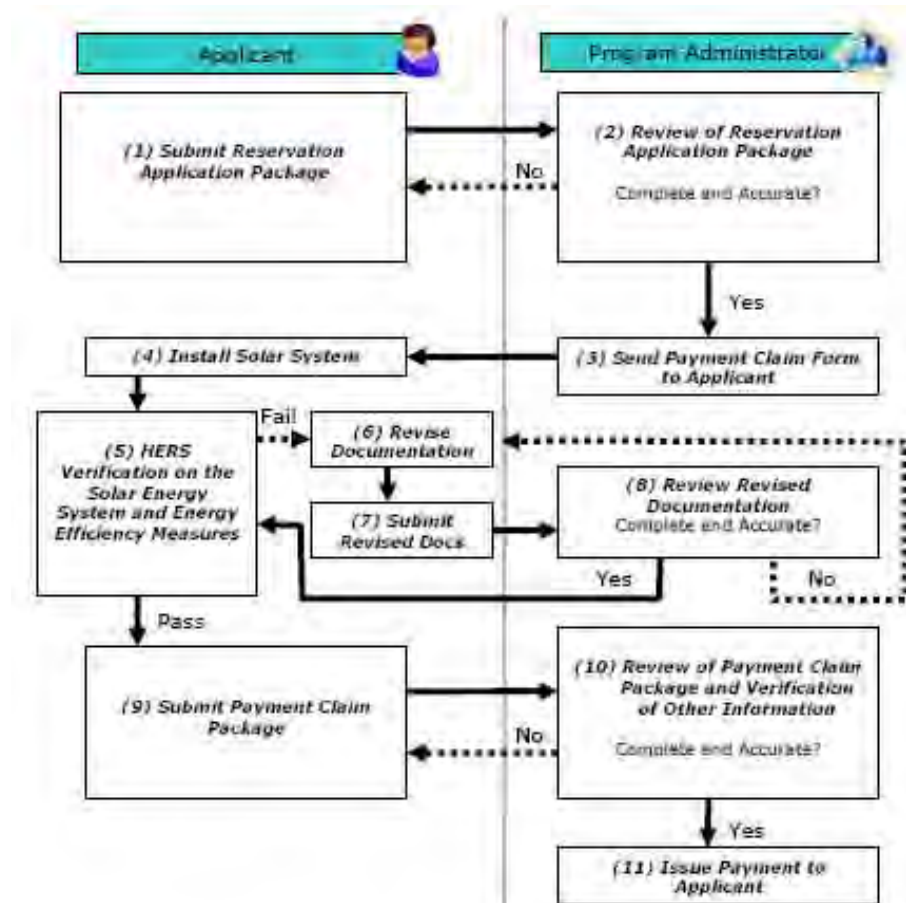
Players



- **Applicant**
- **PV Retailer/installer**
- **CEPE**
- **HERS Rater**
- **Program Administrator**
- **Energy Commission**



NSHP Application Process





Incentive Structure

- One-time, upfront incentive
- Incentives decline as megawatt targets are achieved
- Incentives decline to zero at the end of the program
- <https://www.newsolarhomes.org/RebateLevels.aspx>

Level	Megawatt Goal	Solar as Standard Incentive	Base Incentive	Megawatt Approved	30-Day Notice Sent	Level Expires
1	15 MW	\$2.60	\$2.50	20.84 MW		
2	18 MW	\$2.35	\$2.25			
3	22 MW	\$2.10	\$2.00			
4	25 MW	\$1.85	\$1.75			
5	30 MW	\$1.60	\$1.50			
6	35 MW	\$1.35	\$1.25			
7	40 MW	\$1.10	\$1.00			
8	50 MW	\$0.85	\$0.75			
9	75 MW	\$0.60	\$0.50			
10	90 MW	\$0.35	\$0.25			
Total	400 MW			20.84 MW		



Program Clarifications

- A residential building is considered “new” if the entire building structure is subject to current Title 24 Standards and does not yet have a certificate of occupancy.
- Solar permit should be pulled prior to the issuance of the certificate of occupancy, but no later than 180 days after.
- Projects with valid, unexpired reservations as of January 1, 2010 are granted automatic extensions.
- Retailers and installers self-register with the Energy Commission via Go Solar California website
- Guidebook explicitly states that all energy efficiency measures installed to meet the minimum requirements will be inspected via CF-4R-NSHP form.
- Applicant can designate his administrative rights to a representative.



Before submitting a NSHP application

- Ensure that the building exceeds current Title 24 Standards by at least 15%
- Title 24 documentation must be completed by a CEPE
<http://www.cabec.org/ceperosterall.php>
- All builder supplied appliances must be ENERGY STAR rated
<http://www.energystar.gov>





Energy Efficiency Tiers

NSHP Guidebook, 2nd Ed.

2005 Building Energy Efficiency Standards Tier levels

- Tier 1: minimum 15 percent beyond Standard for combined space heating, cooling and water heating
- Tier 2: minimum 35 percent beyond Standard for combined space heating, cooling and water heating and 40 percent for space cooling

NSHP Guidebook, 3rd Ed.

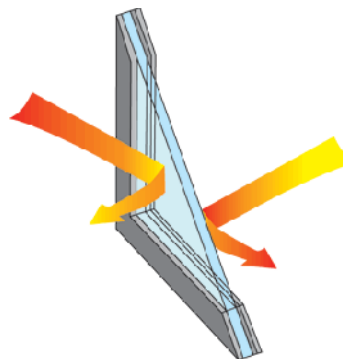
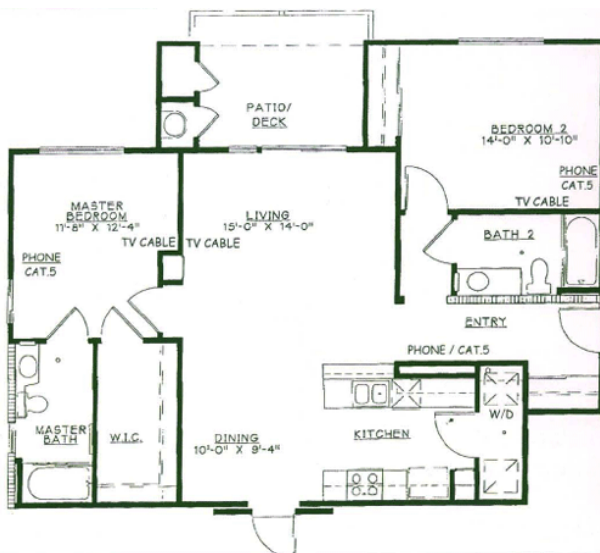
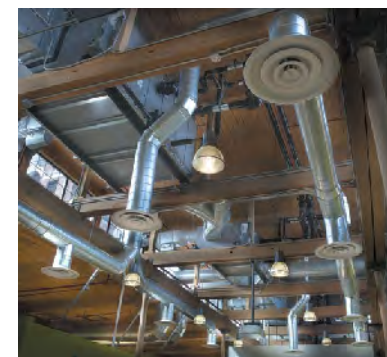
Includes specifics on 2008 Energy Efficiency Tier levels

- Tier 1: minimum 15 percent beyond Standard for combined space heating, cooling and water heating
- Tier 2: minimum 30 percent beyond Standard for combined space heating, cooling and water heating and 30 percent for space cooling



Plan Check Documentation

- Construction Plan Set
- Title 24 forms and files
- Equipment and materials spec sheets





HERS Raters

Third-party inspector who tests and verifies energy efficiency measures and the PV system.



www.cheers.org



www.calcerts.com



Energy Efficiency Inspection



- Before EE Inspection:
 - Rater must obtain applicable CF-6R(s) from installer
 - Rater must obtain EE checklist from HERS registry
- HERS rater will verify features installed using checklist
 - Pre-drywall inspection
 - Final inspection



Photovoltaic Inspection



- Before PV Inspection
 - Rater must obtain applicable CF-6R-PV from installer
 - Rater must obtain PV checklist from HERS registry
- HERS rater will verify system performance using checklist.



2008 Standards Changes

- **Detailed description of major changes:**
http://www.energy.ca.gov/title24/2008standards/2008_STANDARDS_CHANGES.PDF
- **New HERS measures**
- **Revised Compliance Software Manual calculations**
- **Improved roof and attic modeling**





Additional NSHP Resources

www.gosolarcalifornia.org

The screenshot shows a Windows Internet Explorer browser window displaying the Go Solar California website. The browser's address bar shows the URL <http://www.gosolarcalifornia.org/>. The website has a dark blue background with a yellow navigation bar at the top containing links for Existing Homes, New Homes, Nonresidential, Builders, Installers, News Room, Calendar, and Search Site. Below the navigation bar is a large banner image of a house with solar panels on the roof, with the text "GO solar CALIFORNIA" overlaid. To the left of the banner is a "Most Popular Links" section with a list of links including Solar Contractors, Installers & Retailers Database, Calendar, CSH Information, Solar Links & Handbooks, Eligible Equipment, Find Your Utility, NSHP Communities, NSHP Guidebook & Forms, Solar for Affordably Housing, Solar for Existing Homes - CSI, Solar for New Homes - NSHP, and Solar 101 (All About Solar energy). Below this is a "Residential Solar Info" section with links for Solar for EXISTING Homes, Solar for NEW Homes, Info for Builders & Developers, Solar Contractors, Installers & Retailers Database, and a "Nonresidential Solar Info" section with links for Agriculture, Commercial Buildings, Industrial Buildings, Local Government, Nonprofit Organizations, Solar Schools, and Self-Consumption. To the right of the banner is a welcome message: "Welcome to the Go solar California website brought to you by California's Public Utilities Commission and Energy Commission. This site provides consumers a 'one-stop shop' for information on rebates, tax credits, and incentives for solar energy systems in California." Below this are two featured sections: "Solar for Your Home" with a photo of solar panels on a roof and text explaining how solar can reduce electricity bills by up to 60 percent or more, and "Builders, Developers, and Installers" with a photo of a new house and text explaining how to find the right information for builders and developers.



Additional NSHP Resources

<http://www.gosolarcalifornia.ca.gov/nshp/training/index.html>

NSHP Links

- [NSHP Main Page](#)
- [Plan for Energy Efficiency First](#)
- [NSHP Calculator](#)
- [NSHP Eligible Equipment](#)
- [NSHP Guidebook](#)
- [NSHP Workshops & Training](#)
- [Eligible Utilities](#)
- [NSHP Advisory Committee](#)
- [Contact Us](#)

Go Solar & Mail List Server

To subscribe to our Go Solar e-mail ListServer enter your e-mail address completely:

Note: Your e-mail address must be exact and complete. However, no duplicate addresses will be noted. You will receive a confirming e-mail to confirm your subscription.

New Solar Homes Partnership Training

Training Events

March 08, 2010
New Solar Homes Partnership Training Workshop at San Diego Gas & Electric

March 09, 2010
New Solar Homes Partnership (NSHP) Training Session at Southern California Edison

March 11, 2010
California Energy Commission will hold an online training workshop (via WebEx) on the NSHP website.

March 15, 2010
PG&E New Solar Homes Partnership Training Workshop

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 refer to the WebEx Help page (located at the bottom of the page) for the link to WebEx Help. If you are having trouble with WebEx, please contact WebEx technical support at 866-224-3254.

Date	Title	Duration
10/21/08	Introduction to the Web Tool	00:42
10/18/08	Continuing Education	00:15



Additional NSHP Resources

- NSHP CECPV Calculator
 - <http://www.gosolarcalifornia.ca.gov/nshpcalculator/index.html>
- NSHP Web Tool
 - <https://www.newsolarhomes.org>
- Register for the GoSolar Retailer/Installer List
 - <http://www.gosolarcalifornia.ca.gov/database/addcompany.php>
- Check the Eligible Equipment Lists
 - <http://www.gosolarcalifornia.ca.gov/equipment/index.html>



NSHP Program Administrator Contact Information

<http://www.gosolarcalifornia.ca.gov/contactus.html>

PG&E

- Email: solar@pge.com
- Phone: 1-877-743-4112

SCE

- Email: NSHP@sce.com
- Phone: 1-866-584-7436

SDG&E

- Email: newsolarhomes@sdge.com
- Phone: 1-866-631-1744



Questions?

2008 Documents available at:

<http://www.energy.ca.gov/title24/2008standards/>

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