



SOUTHERN CALIFORNIA PUBLIC POWER AUTHORITY
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ANAHEIM • AZUSA • BANNING • BURBANK • CERRITOS
 COLTON • GLENDALE • LOS ANGELES • PASADENA
 RIVERSIDE • VERNON • IMPERIAL IRRIGATION DISTRICT

June 18, 2008

Lynette Estemon-Green
 California Energy Commission
 1516 9th Street, MS 45
 Sacramento, CA 95814-5512

Dear Lynette,

On behalf of our members, the Southern California Public Power Authority (SCPPA) is pleased to submit the attached reports providing the status of member electric solar programs as of March 31, 2008. The reports are in compliance with the provision of Senate Bill 1 (SB1) and comport with Section 6 of the California Energy Commission's *Guidelines For California's Solar Electric Incentive Programs Pursuant To Senate Bill 1*.

Collectively, SCPPA members have performed well in launching their solar energy programs. These programs have been developed to meet the unique needs of the communities they serve, incorporate state guidelines, and provide the best opportunity to maximize program results at the local level. Since SB1 program inception, the aggregated results of these locally designed and implemented programs have been notable:

- 42 solar photovoltaic systems installed
- 232 kilowatts of installed generating capacity
- \$1,643,388 of utility incentives have been awarded for planned and installed systems

The following table provides a complete summary of SCPPA member results:

Entity	Number of Applicants	Total Systems Installed	Installed Capacity (kW)	Annual Generation (kWh)	Total Expenditures	Incentives Awarded	Incentives Paid
SCPPA Aggregated Results	60	42	232.33	462,819	\$918,360	\$1,643,388	\$808,719
Anaheim Public Utilities	4	4	12.95	26,732	95,456	52,525	41,764
Azusa Light and Power	-	-	-	-	-	-	-
City of Banning	2	-	-	-	152,719	147,284	147,284
Burbank Water and Power	4	4	14.10	27,072	38,141	35,891	35,891
Colton Electric Utility	5	1	5.77	10,530	20,100	20,000	20,000
Glendale Water and Power	10	6	30.62	44,399	123,729	227,933	123,729
Imperial Irrigation District	13	10	64.10	138,480	194,449	178,588	178,588
Pasadena Water and Power	7	2	35.20	20,754	88,707	776,108	56,404
Riverside Public Utilities	15	15	69.59	194,852	205,059	205,059	205,059

Note: Program reporting time period is Jan. 1, 2008 through Mar. 31, 2008.
 Los Angeles Department of Water and Power was reported separately.

● Page 2

SCPPA is also committed to working CEC staff to streamline compliance reporting for renewable energy. In support of this objective, SCPPA and its members continue to develop consistent means of reporting program status which meets legislative intent, and at the same time addresses CEC's informational needs. The attached solar energy program reports clearly demonstrate our ongoing commitment.

If you have any questions, please contact me at (626) 793-9364 or Jeannette Meyer at (818) 238-3562.

Sincerely,



Craig A. Koehler
Finance and Accounting Manager
SCPPA

Attachments

SB1 Solar Program Status Report

Utility Name: Anaheim Public Utilities

Program Reporting Period:

From Program Inception: January 1, 2008

Through: March 31, 2008

1. Program Activities

a) Summary of Program Activities:

- Continued management of three solar energy incentive programs for Residential Solar Energy Program, Commercial Solar Energy Program, Sun Power for the Schools
- Planned for bi-annual Solar Energy Basics workshop for residents (April 19)
- Re-designed Sun Power for the Schools Program to include expansion of current program

b) Future Opportunities and Challenges:

- Implement PowerClerk as web-based tool offering for customers
- Complete re-design of solar energy incentive programs to meet SB-1 guidelines and standards by January 1, 2009
- Continue offering Solar Energy Basics workshops for residential customers (two times a year)
- Increase marketing to all ratepayer sectors
- Expand Sun Power for the Schools Program

2. Program Performance

	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
# Applicants	4	12.95	26,732

Available Funding ¹	Total Expenditures ²	Incentives Awarded	Incentives Paid
\$35,055,800 through 2016 (per SB-1)	\$95,456.30	\$52,525.22	\$41,764.10

3. Additional Information (as available)

a) Known customer application issues/applications not approved

One customer completed their system installation and it was approved, but they had fee settlement issues with their installer. This delayed their submittal of application until the following quarter and the incentive shows as unpaid on this report.

b) Non PV solar systems installed

None

c) Facility end use information

All incentives in this reporting period were paid to the Residential Solar Energy Program.

d) Incentive and funding disaggregation (e.g., by incentive type, by end use, etc.)

Incentives:
 Rebates: \$40,978.46
 Permit Fee Waivers: \$785.64

¹ Total solar program funding available for the life of the program as approved by the local governing board.

² Includes all program expenditures, including administration and marketing.

SB1 Solar Program Status Report – SCPPA Members

Marketing/Events: \$744.26
Administration: \$12,214.88

4. Appendix

Additional program information, including program guidelines, incentive tables, program rules, etc.

1. <http://www.anaheim.net/article.asp?id=1644>
2. http://www.anaheim.net/utilities/adv_svc_prog/pv/pv_intro.pdf
3. <http://www.anaheim.net/utilities/pdf/CommercialPhotovoltaicProgramFinal.pdf>
4. http://www.anaheim.net/utilities/adv_svc_prog/green_power/SP4SFlyer.pdf

SBI Solar Program Status Report

Utility Name: Azusa Light and Water

Program Reporting Period:

From Program Inception: January 1, 2008

Through: March 31, 2008

1. Program Activities

a) Summary of Program Activities: UP TO \$4.00/WATT INCENTIVE \$2.30/WATT PLUS \$1.20/WATT IF CUSTOMER SURRENDERS REC'S

b) Future Opportunities and Challenges: LOW RATES MEAN A LONG PAY BACK.

2. Program Performance

	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
# Applicants	0	0	0
Available Funding ¹	Total Expenditures ²	Incentives Awarded	Incentives Paid
<u>~\$3.2 MILLION</u>	0	0	0

3. Additional Information (as available)

- a) Known customer application issues/applications not approved
N/A
- b) Non PV solar systems installed
NONE
- c) Facility end use information
N/A
- d) Incentive and funding disaggregation (e.g., by incentive type, by end use, etc.)
N/A

4. Appendix

Additional program information, including program guidelines, incentive tables, program rules, etc.

1. TOTAL INSTALLED PV IN CITY = 12.5 KW (10 KW ON CITY
2. BUILDING & 2.5 KW ON ONE RESIDENTIAL CUSTOMER'S HOME. BOTH INSTALLED PRIOR TO SB-1 REGULATIONS

¹ Total solar program funding available for the life of the program as approved by the local governing board.
² Includes all program expenditures, including administration and marketing.

SB1 Solar Program Status Report

Utility Name: City of Banning

Program Reporting Period:

From Program Inception: January 1, 2008
 Through: March 31, 2008

1. Program Activities

a) Summary of Program Activities:

- Continued administering both Commercial and Residential programs
- Marketed program with ads at various locations and in a number of local publications throughout the City
- Sponsored the Banning High School Team at the 2008 Solar Cup Competition

b) Future Opportunities and Challenges:

- Disparity in Tax Incentives between Commercial and Residential will discourage Residential customers from participating
- High installation costs and long payback for Residential customers

2. Program Performance

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
2	0	0	0

Available Funding ¹	Total Expenditures ²	Incentives Awarded	Incentives Paid
\$1,852,716	\$152,719	\$147,284	\$147,284

3. Additional Information (as available)

- a) Known customer application issues/applications not approved
 _____ N/A
- b) Non PV solar systems installed
 _____ N/A
- c) Facility end use information

 • Residential and Commercial
- d) Incentive and funding disaggregation (e.g., by incentive type, by end use, etc.)

 • \$4.00 per installed watt

4. Appendix

Additional program information, including program guidelines, incentive tables, program rules, etc.

1. See attached Program Guidelines
- 2.

¹ Total solar program funding available for the life of the program as approved by the local governing board.

² Includes all program expenditures, including administration and marketing.

• **Residential and Commercial Photovoltaic Incentives**

Program Description:

This program is designed to provide monetary incentives for the purchase and installation of photovoltaic (PV) or solar powered systems usually installed on the rooftops of homes and businesses. They operate using sunlight and they create no noise or pollution.

A complete PV system usually consists of one or more modules connected to an inverter that changes direct current (DC) to alternating current (AC). The approximate cost per kilowatt of an installed PV system can range from \$7,500 to \$12,000 before the rebate payment. This can include the module, inverter, wiring, and interconnection equipment.

The incentive is available for qualifying PV systems. The level of incentive is \$4.00 per watt, per electric account with a maximum project size based on the maximum demand of the customer's account, not to exceed 50% of the project cost, municipal projects will be evaluated individually for incentive levels.

Program Guidelines:

- This program is available to the City of Banning residential and commercial electric customers.
- Applicant must be a City of Banning electric customer. If the applicant is a tenant or leases space, the property owner must sign the rebate application prior to its submission.
- Program participation requires systems to be installed at the service address.
- Project costs include the photovoltaic cells, modules, mounting or tracking structures, wiring, inverters, and utility required interconnection equipment.
- Installation must be completed by the applicant, or a California licensed contractor with the proper specialty code. The applicant is responsible for checking with appropriate state, county, city agencies, as well as the property owner regarding local conditions, restrictions, codes, ordinances, rules and regulations prior to installation.
- Contractors must have one of the following licenses:
 - ♦ C-10 Electrical Contractor
 - ♦ General Engineering "A" Contractor
 - ♦ C-46 Solar Contractor
- To verify whether a contractor meets any of the above requirements, call the California Contractor's State License Board at 800-321-2752.
- The City of Banning does **NOT** pay for electricity produced in excess of the customers demand.

- Only California Energy Commission certified PV modules and inverters qualify for this program and are subject to approval by City of Banning. The list of eligible equipment to determine eligibility for the Solar Support Program for PV Modules (Panels) and PV Inverters can be found on the CEC web site at:
www.consumerenergycenter.org/erprebate/equipment.html
- The CEC also provides a list of retailers and vendors of solar photovoltaic equipment at:
www.consumerenergycenter.org/erprebate/database/index.html
- There is no minimum or maximum size system requirement; however the system size cannot exceed the customer's maximum demand.
- Applicant must complete an Interconnection Agreement for Net Energy Metering (NEM) with the City of Banning Electric Department prior to final connection to the grid and before any incentive can be paid.
- If there is a discrepancy between the guidelines and NEM Agreement, the NEM will supersede the guidelines.
- Applicant must comply with all Planning, Building and Safety, and Electric plan-check procedures.
- Systems will be inspected before rebate is issued, and must be interconnected to the City's electric meter.
- It's recommended that you first hire a solar designer, consultant or contractor. After you and your contractor have selected the PV system and know the brand, model and number of panels you plan to install, you should call the City of Banning Public Benefits Department at (951) 849-5224 for an update on the Solar Support Program's funding status. All rebates will be paid on a first come first served basis until funding is exhausted. The City does not reserve funds for proposed PV projects. In addition you must submit plans and sign a City of Banning Electrical Interconnection and Net Metering Agreement, and submit to an inspection by the Utility **BEFORE** you connect the PV system to the utility grid. You or your contractor must also submit plans and secure both a building permit and an electrical permit from the City of Banning Community Development Department, Building and Safety Division. You can reach them at (951) 922-3125.
- **A copy of the original, dated invoice or sales agreement, all applicable receipts and a copy of the signed off permit must be provided, and is subject to verification. The documentation must note the contractor name, address, manufacture's name, PV module number and inverter, total system capacity and purchase price.**
- The City will conduct a final inspection to make sure that the applicable systems were properly installed and interconnected in accordance with Electric Utility guidelines.
- Complete and return the application and supporting documentation to: **City of Banning, Public Benefits Department, 176 E. Lincoln Street, Banning, CA 92220.**
- The application and supporting documentation must be submitted within 180 days of purchasing or installation of the PV system in order to qualify for a rebate.

SBI Solar Program Status Report

SBI Solar Program Status Report

Utility Name: Burbank Water and Power

Program Reporting Period:

From Program Inception: January 1, 2008
 Through: March 31, 2008

1. Program Activities

a) Summary of Program Activities:

- ✓ Worked with SCAPA to complete contract with CleanPower
- ✓ Continued management of BWP's solar energy incentive programs for both Residential and Commercial Solar Installations.

b) Future Opportunities and Challenges:

- ✓ Implement PowerClerk, a web-based tool to assist with SB-1 compliance.
- ✓ Offer a solar energy workshop for residential customers.

2. Program Performance

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
4	4	14.1	27,072 (Annual)
Available Funding ¹	Total Expenditures ²	Incentives Awarded	Incentives Paid
Up to \$15,000,000	38,141	\$35,891	\$35,891

3. Additional Information (as available)

a) Known customer application issues/applications not approved

None.

b) Non PV solar systems installed

None.

c) Facility end use information

All installations during this reporting period were on existing Burbank residences.

d) Incentive and funding disaggregation (e.g., by incentive type, by end use, etc.)

- ✓ The City of Burbank waives the normal permit fees for residential solar energy installations.
- ✓ The South Coast Air Quality Management District also paid incentives toward three of the four installations.

4. Appendix

Additional program information, including program guidelines, incentive tables, program rules, etc.

1. http://www.burbankwaterandpower.com/solar_panels.html

¹ Total solar program funding available for the entire life of the program as approved by the local governing board.

² Includes all program expenditures, excluding staff labor costs.

SBI Solar Program Status Report

Utility Name: Colton Electric Utility

Program Reporting Period:

From : January 1, 2008
 Through: March 31, 2008

1. Program Activities

a) Summary of Program Activities:

PV incentive program began in 2005. \$4.00 per Watt Max \$20,000 Residential, \$50,000 Commercial, One large commercial 100 kW 2005, Two residential in 2006, 4 in 2007 and in the first half of 2008 4 installations were underway. For a Total of 8 installed systems totaling 127 kW. \$310,892 expended since program inception in October 2005.

b) Future Opportunities and Challenges:

In the second half of 2008 a EPBI incentive for small installations and a PBI incentive for large systems will be implemented. Several more residential systems are expected and a number of large including megawatt systems are being planned for commercial and industrial customers.

2. Program Performance

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
5	1	5.77	10530/year
Available Funding¹	Total Expenditures²	Incentives Awarded	Incentives Paid
4,000,000	20100	20000	20000

3. Additional Information (as available)

a) Known customer application issues/applications not approved

0

b) Non PV solar systems installed

0

c) Facility end use information

1 commercial, 7 residential since program beginning

d) Incentive and funding disaggregation (e.g., by incentive type, by end use, etc.)

Current \$4.00 per Watt cap \$20,000 residential, \$50,000 commercial. Planned EPBI and PBI with base and enhanced incentives for utility credit for renewable attributes.

4. Appendix

Additional program information, including program guidelines, incentive tables, program rules, etc.

PV incentive program began in 2005. \$4.00 per Watt Max \$20,000 Residential, \$50,000 Commercial.

In July 2008 a revised program will be implemented based on CSI Guidelines with EPBI PBI incentives.

¹ Total solar program funding available for the life of the program as approved by the local governing board.

² Includes all program expenditures, including administration and marketing.

SBI Solar Program Status Report

Utility Name: Glendale Water & Power

Program Reporting Period:

From Program Inception: January 1, 2008

Through: March 31, 2008

1. Program Activities

a) Summary of Program Activities:

PV incentive program began in 2002. Current maximum incentive is \$4.00 per watt for systems 30 KWdc or less, and \$3.55 per watt for systems greater than 30KWdc. GWP has provided PV incentives since 2002. Since 2002, we have incentivised 54 projects: 51 residential and 3 commercial. Total program expenditures from July 1, 2002 to March 31, 2008 are \$1,022,315. Total incentives awarded (reserved) are \$1,431,653.

b) Future Opportunities and Challenges:

Starting January 1, 2009 GWP will require a EPBI incentive for systems 30KWdc or less and a PBI incentive for systems greater than 30KWdc.

2. Program Performance

	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
# Applicants	6	30.62	44,399/year
		Incentives Awarded (Reserved)	Incentives Paid
Available Funding	Total Expenditures	\$227,933	\$123,729
\$763,590	\$123,729		

3. Additional Information (as available)

a) Known customer application issues/applications not approved

None

b) Non PV solar systems installed

None

c) Facility end use information

10 residential reserves, 6 residential installations

d) Incentive and funding disaggregation (e.g., by incentive type, by end use, etc.)

Current maximum incentive is \$4.00 per watt for systems 30 KWdc or less, and \$3.55 per watt for systems greater than 30KWdc. Starting January 1, 2009 GWP will require an EPBI incentive for systems 30KWdc or less and a PBI incentive for systems greater than 30KWdc. Two year budget for solar incentive program is \$3,054,000; \$200,000 allocated to affordable housing, \$1,034,000 allocated to residential, \$300,000 to small business, and \$1,520,000 to large business. Funds can be shifted between fiscal years and programs to meet needs. Estimated available funding through 2017 is \$15,271,816.

4. Appendix

Additional program information, including program guidelines, incentive tables, program rules, etc.

GWP SB-1 SOLAR PROGRAM

INCENTIVES FOR SYSTEMS LESS THAN OR EQUAL TO 30 KWdc

Incentives for systems less than 30 KWdc will be capacity-based, i.e. based on installed system size. The maximum incentive will be set at \$4.00/Wdc, plus the cost of City of Glendale permits and fees through December 31, 2008, and decline 7.0% a year thereafter. System size will be determined using the CEC panel rating on the CEC website times the number of installed panels.

The incentive will be divided into two parts: \$3.25/Wdc for the system and \$0.75/Wdc for the associated green power rights so the system can be counted toward the GWP Renewable Portfolio Standard. Participants that wish to retain the green power rights will be limited to an incentive of \$3.25/Wattdc. Assuming kWh production of 1,450 kWh per installed KW, the \$0.75/Wdc incentive is equal to \$0.026 per kWh over 20 years, which is a reasonable value of the green power rights given current market prices for renewable energy credits.

The SB-1 incentive is required by law to decline 7.0% per year, and end after 10 years. Incentives may decline at a faster rate as approved by City Council during the normal PBC program and budget process as necessary to balance incentive supply and demand. Incentive amounts will be based on the year in which the customer reserves the funding as long as the system is installed by the reservation expiration date. Reservations will generally be good for six months. Customer can request an extension for an additional six months.

Table 1 below summarizes the proposed capacity based incentives by reservation year.

TABLE 1

Reservation Year	System Per Watt Incentive	Green Energy Per Watt Incentive	Total Per Watt Incentive
2008	\$ 3.25	\$ 0.75	\$ 4.00
2009	\$ 3.02	\$ 0.70	\$ 3.72
2010	\$ 2.81	\$ 0.65	\$ 3.46
2011	\$ 2.61	\$ 0.60	\$ 3.22
2012	\$ 2.43	\$ 0.56	\$ 2.99
2013	\$ 2.26	\$ 0.52	\$ 2.78
2014	\$ 2.10	\$ 0.49	\$ 2.59
2015	\$ 1.96	\$ 0.45	\$ 2.41
2016	\$ 1.82	\$ 0.42	\$ 2.24
2017	\$ 1.69	\$ 0.39	\$ 2.08

INCENTIVES FOR SYSTEMS GREATER THAN 30 KWdc

Regardless of customer class, incentives for all systems greater than 30KWdc shall be performance based, i.e., based on the amount of electricity produced by the installed system. Monetary incentives will be performance based payable over 5-years following system installation, submission, and final approval of incentive claim materials and limited to the energy produced by the first megawatt of alternating current generated. Payments will be based on the per-kWh

incentive rate and the actual energy (kWh) produced on up to the first MWac installed over a five-year period.

The performance based incentive will be set at \$0.490/kWh for systems reserved by December 31, 2008 and installed by the reservation expiration date. Reservations will be good for 12 months. The incentive will be paid over five years and divided into two parts: \$0.387/kWh for installing the system, and \$0.103/kWh for the green power rights for all power produced over the life of the system. Participants that wish to retain the green power rights will be limited to an incentive of \$0.387/kWh. The \$0.387/kWh installation incentive is based on the state mandated minimum incentive of \$2.80 per watt divided by the estimated system kWh production over five years assuming 1450 kWh per KW. The \$0.103/kWh incentive for the green power rights is based on current market prices for renewable energy credits.

The SB-1 incentive will decline 7.0% a year through 2017. Incentives may decline at a faster rate as approved by City Council during the normal PBC program and budget process as necessary to balance incentive supply and demand.

Performance based incentives amounts will be based on the year in which the customer reserves the funding as long as the system is installed by the reservation expiration date and payable for five years. Due to the complexity of larger projects, projects 30 KWdc and greater have 12 months from the confirmed reservation start date to complete the solar power system installation. If the customer can demonstrate in writing that the project cannot be completed prior to the expiration date, including all available extensions, as a result of delays beyond their control, such as permit delays when all required items have been submitted by the applicant, they may receive up to 3 more additional months from the reservation start date for a total of 15 months to complete the installation. If the project is eligible for an extension, it must be requested and granted in writing from the GWP prior to the confirmed reservation expiration. Installations that are confirmed as new construction or major renovation projects must show project progress every 12 months with a maximum of three years to complete the installation. If progress is not demonstrated, the confirmed reservation will be cancelled. If a home, building, or facility is under construction or major renovation, an expected load profile must be submitted with the application.

Table 2 below summarizes the proposed performance based incentives by reservation year. These incentives are payable for annual production of the first MWac installed over five years.

TABLE 2

Reservation Year	System kWh Incentive	Green Energy kWh Incentive	Total kWh Incentive
2008	\$ 0.387	\$ 0.103	\$ 0.490
2009	\$ 0.360	\$ 0.096	\$ 0.456
2010	\$ 0.335	\$ 0.089	\$ 0.424
2011	\$ 0.311	\$ 0.083	\$ 0.394
2012	\$ 0.289	\$ 0.077	\$ 0.367
2013	\$ 0.269	\$ 0.072	\$ 0.341
2014	\$ 0.250	\$ 0.067	\$ 0.317
2015	\$ 0.233	\$ 0.062	\$ 0.295
2016	\$ 0.217	\$ 0.058	\$ 0.274
2017	\$ 0.201	\$ 0.054	\$ 0.255

INCENTIVES FOR

AFFORDABLE HOUSING

New and existing affordable housing projects approved by GWP and the Glendale Community Development and Housing Department may be eligible for increased incentives of \$1.00/watt for systems less than or equal to 30 KWdc and \$0.20 per kWh produced for systems greater than 30KWdc subject to required 7.0% annual decline. Table 3 below lists proposed capacity based incentives for approved affordable housing projects equal to or less than 30 KWdc.

TABLE 3

Reservation Year	System Per Watt Incentive	Green Energy Per Watt Incentive	Total Per Watt Incentive
2008	\$ 4.25	\$ 0.75	\$ 5.00
2009	\$ 3.95	\$ 0.70	\$ 4.65
2010	\$ 3.68	\$ 0.65	\$ 4.32
2011	\$ 3.42	\$ 0.60	\$ 4.02
2012	\$ 3.18	\$ 0.56	\$ 3.74
2013	\$ 2.96	\$ 0.52	\$ 3.48
2014	\$ 2.75	\$ 0.49	\$ 3.23
2015	\$ 2.56	\$ 0.45	\$ 3.01
2016	\$ 2.38	\$ 0.42	\$ 2.80
2017	\$ 2.21	\$ 0.39	\$ 2.60

Table 4 below lists proposed performance based incentives for approved affordable housing projects greater than 30 KWdc based on reservation year. These incentives are payable for annual production from the first MWac installed over five years.

TABLE 4

Reservation Year	System kWh Incentive	Green Energy kWh Incentive	Total kWh Incentive
2008	\$ 0.586	\$ 0.103	\$ 0.689
2009	\$ 0.545	\$ 0.096	\$ 0.641
2010	\$ 0.507	\$ 0.089	\$ 0.596
2011	\$ 0.471	\$ 0.083	\$ 0.554
2012	\$ 0.438	\$ 0.077	\$ 0.515
2013	\$ 0.408	\$ 0.072	\$ 0.479
2014	\$ 0.379	\$ 0.067	\$ 0.446
2015	\$ 0.353	\$ 0.062	\$ 0.415
2016	\$ 0.328	\$ 0.058	\$ 0.386
2017	\$ 0.305	\$ 0.054	\$ 0.359

ELIGIBLE COSTS AND INCENTIVE LIMITATIONS

With the exception of the approved affordable housing projects and other projects that may be specifically exempted by City Council, GWP incentives will not exceed 50% of the gross installed system cost plus any applicable City of Glendale licenses, permits, and fees, regardless of estimated or actual kWh production. In determining gross installed costs, the following costs are eligible:

- Taxes
- Engineering costs and design, not to exceed ten percent of total system cost
- The following specific components and equipment are eligible: the *photovoltaic* cells, modules, mounting or tracking structures, wiring, inverters, performance meter, foundation (for free-standing systems), and utility-required interconnection equipment

The following costs are not eligible:

- Equipment for the storage of the electricity produced such as batteries
- Cost of capital
- Cost of tools
- Tree trimming or other landscaping
- Roofing, re-roofing, roof repairs or reinforcement
- Relocating vent pipes, HVAC or other equipment

Additionally, in determining the maximum incentive available, GWP will compare the proposed system size and estimated production to historical consumption. Incentives will be limited to systems sized to meet historical consumption. Performance incentives will only apply to the first megawatt of alternating current generated.

SYSTEM LOCATION AND GRID INTERCONNECTION

The solar system must be located on the same premises where the consumer's own electricity demand is located. The system must be connected to the electrical distribution grid of the utility serving the customer's electrical load.

SOLAR ENERGY SYSTEM COMPONENTS

All components in the solar energy system must be new and unused and have not previously been placed in service in any other location or for any other application. All major solar energy system components (PV and non-PV) eligible for incentives must be listed on the Energy Commission's Eligible Equipment List. This includes PV modules, inverters and meters. Information on solar system components can be found at: [www.gosolarcalifornia.ca.gov].

PERFORMANCE METER

All solar energy systems must be installed with a performance meter or an inverter with a built-in performance meter so that the customer can monitor and measure the system's performance and the quantity of electricity generated by the system.

SYSTEM SIZED TO OFFSET ON-SITE ELECTRICITY LOAD

The solar energy system must be intended primarily to offset part or all of the consumer's own electricity demand. Systems must be designed to produce at least 1 KW and not more than 5 MW

alternating current rated peak electricity. Systems should be sized to produce no more than 100% of the average annual energy consumption as shown on the GWP billing record for the two years previous to the issuance of the Confirmed Reservation. If the customer's account has less than two year's history, the average will be calculated with available data. Systems may be larger than 100% of historic consumption but they may be subject to additional requirements and restrictions and the maximum incentive available will be based on historical consumption. Customers are required to investigate the interconnection requirements prior to installing PV systems. If a home, building, or facility is under construction or renovation, an expected load profile must be submitted with the application. The anticipated load must be verifiable to claim total confirmed incentive amount prior to payment of the incentive. If the customer is expanding the *site* with new construction, the anticipated load must be verifiable to claim the total confirmed incentive amount. For new construction incentive reservation applications, the maximum system size may be calculated at two Watts per square foot of new construction, as an alternative to doing a projected energy load calculation. This applies to projects with a system size of 30KWdc or less.

NET METERING

All customers will be required to sign an interconnection agreement prior to installing a PV system. Two signed originals of the Interconnection Agreement must be submitted. The Interconnection Agreement for systems sized at or below historic consumption is available online or by calling GWP.

Any energy generated by the solar power system must be either utilized on site by the customer or delivered to GWP. In accordance with the GWP interconnection agreement, GWP will determine for each billing period the energy generated and the energy used. In any billing period where the energy used exceeds the energy generated on the Customer-Generator's premise, the Customer-Generator will be billed for the net energy used. In the event energy generated by the facility exceeds the energy used on the Customer-Generator's premise during any billing period, the amount of the net excess energy will be credited against the Customer-Generator's energy usage in the next billing period. If at the end of one year there remains an excess kilowatt hour credit, GWP reserves the right to pay the Customer-Generator for such excess kilowatt hours at the current fuel adjustment charge rate.

Energy cannot be sold to any other entities. As required by the interconnection agreement, all systems must be owned by the customer. Customers who fail to maintain a valid interconnection agreement for the operating life of the system may be required to reimburse the GWP for all or part of the incentive received.

SYSTEM WARRANTY

All solar energy systems must have a minimum ten-year warranty to protect against defects and undue degradation of electrical generation output.

INSTALLATION

The solar energy system must be installed in conformance with the manufacturer's specifications and in compliance with all applicable electrical and building code standards.

ENERGY EFFICIENCY

All participants will be required to participate in the free Smart Home Energy Saving Survey, free Small Business Energy Saving Upgrade, or Business Energy Solutions energy audit program that pays up to \$0.10 per square foot for an energy audit as appropriate prior to receiving any monetary incentive.

ADDITIONAL AFFORDABLE HOUSING INCENTIVES AND GUIDELINES

Additional requirements to qualify for increased solar incentives under this category include:

- A minimum of 50% of the units in either ownership or rental multi-family housing projects must be reserved as affordable
- For ownership units, affordability is defined as reserved for families earning 120% or less of the Area Median Income (AMI)
- For rental units, affordability is defined as reserved for families earning less than 80% of Area Median Income and with rents not exceeding 30% of 60% of the area median income as set forth on a rent schedule prepared by the Glendale Community Development and Housing Department
- Long-term affordability of qualifying *affordable housing* units must be maintained through deed restrictions or other covenants for a period of not less than 10 years.
- New construction affordable housing projects must meet additional requirements for new construction.

ADDITIONAL REQUIREMENTS FOR NEW CONSTRUCTION

For solar energy systems to be eligible for incentives when installed to serve a newly constructed commercial building, the building shall achieve energy efficiency levels substantially greater than the requirements of the current Building Energy Efficiency Standards (Title 24, Part 6). The builder can choose to comply with either of the following two tiers of energy efficiency:

Tier I – 15 percent reduction in the commercial building's combined space heating, space cooling, lighting and water heating energy compared to the current Title 24 Standards.

Tier II – 30 percent reduction in the commercial building's combined space heating, space cooling, lighting and water heating energy compared to the current Title 24 Standards.

For either Tier I or II, any equipment or appliance provided by the builder must be Energy Star labeled if this designation is applicable to that equipment or appliance.

Solar water heating may be used to assist in meeting the energy efficiency requirements of either Tier I or Tier II.

Compliance documents used to demonstrate Title 24 compliance, including the PERF-1 form and accompany supporting forms shall be provided as proof of attainment of the Tier I or Tier II levels. Compliance documents shall be completed by persons who are either a Certified Energy Plan Examiners (CEPE) or a California Association of Building Energy Consultants (CABEC).

For newly constructed commercial buildings that are constructed in phases with the shell built first, and further energy systems installed in later phases as tenant improvements, an agreement shall

made between the building owner and the tenant that obligates future tenant improvements to install lighting, HVAC and water heating equipment at efficiency levels necessary to meet the overall building Tier level that was committed to by the building owner.

GWP has a number of energy efficiency incentive programs that help defer the costs of meeting these additional new construction participation requirements.

FUTURE PROGRAM MODIFICATIONS

Starting January 1, 2009, solar programs will be required to meet the California Energy Commission (CEC) solar program guidelines. Once issued CEC, the GWP solar program guidelines will be reviewed and modified by GWP as necessary to ensure the GWP program is consistent with the eligibility criteria, design, installation, and electrical output standards or incentives mandated by the CEC pursuant to Section 25782 of the Public Resources Code.

SB1 Solar Program Status Report

Utility Name: Imperial Irrigation District

Program Reporting Period:

From Program Inception: January 1, 2008
 Through: March 31, 2008

1. Program Activities

a) Summary of Program Activities:

IID offers an incentive for the installation of PV systems 1kW to 1MW. The incentive began at \$2.80 per watt, decreasing by 7% in 10 tiers. We are currently in Tier 3 of \$2.42 per watt installed. We currently have two 1MW projects in process, with projected completion dates of December 2008.

b) Future Opportunities and Challenges:

Challenges: Due to the uncertainty of the tax credits, budgeting forecasts have been a challenge.
 Opportunities: IID is exploring alternative program designs for PV in order to maintain momentum.

2. Program Performance

# Applicants	Total Systems		Estimated
	Installed	Total kW Installed	Generation (kWh)
13	10	64.1	11,540 kWh/month
Available Funding ¹	Total Expenditures ²	Incentives Awarded	Incentives Paid
\$40,200,809.00	\$194,449.10	\$178,587.89	\$178,587.89

3. Additional Information (as available)

a) Known customer application issues/applications not approved

N/A

b) Non PV solar systems installed

None

c) Facility end use information

Our program is the same for residential and commercial customers.

d) Incentive and funding disaggregation (e.g., by incentive type, by end use, etc.)

4. Appendix

Additional program information, including program guidelines, incentive tables, program rules, etc.

1. Program Requirements

- All flat plate modules and inverters must be on the State of California Energy Commission list of eligible equipment.
- A list of approved PV modules can be found on the web at http://www.consumerenergycenter.org/erprebate/eligible_pvmodules.html

¹ Total solar program funding available for the life of the program as approved by the local governing board.

² Includes all program expenditures, including administration and marketing.

SBI Solar Program Status Report – NCPA Members

- A list of approved PV inverters can be found on the web at http://www.consumerenergycenter.org/erprebate/eligible_inverters.html
- You must be an active customer of Imperial Irrigation District.
- The system must be a minimum of 1000 watts AC.
- The system must come with a minimum five year warranty against breakdown or unusual degradation.
- The system must be installed by a licensed contractor class C-10 electrical or C-46 solar.
- The system must be installed in accordance with all applicable building and national electric codes.
- The system must be connected to the IID system and you will be switched to a net metering rate.
- The system must include a second meter to record generation for billing purposes.
- You must agree to future inspections of the equipment to verify PV system performance.
- You must operate and maintain your system for a minimum of five years in the area served by IID.
- If your system is more than 30 kW, please refer to IID's Regulation 21 Guidelines.

2. Incentive Table

Year	Incentive	Budget	Installed kW Benchmark
2008	2.80	\$ 4,020,081	1,436
2009	2.60	4,020,081	1,544
2010	2.42	4,020,081	1,660
2011	2.25	4,020,081	1,785
2012	2.09	4,020,081	1,919
2013	1.95	4,020,081	2,064
2014	1.81	4,020,081	2,219
2015	1.68	4,020,081	2,386
2016	1.57	4,020,081	2,566
2017	1.46	4,020,081	2,759
		\$ 40,200,809	20,337

SB1 Solar Program Status Report

Utility Name: City of Pasadena

Program Reporting Period:

From Program Inception: January 1, 2008

Through: March 31, 2008

1. Program Activities

a) Summary of Program Activities:

On September 24, 2007, the Pasadena City Council has adopted a goal of installing 14 MW of customer-owned solar photovoltaic capacity in Pasadena by 2017, and adopted a formula-based Public Benefits Charge rate ordinance that will provide additional funding for increased spending on PV, energy efficiency, and demand response. FY2009 PBC spending is expected to triple versus FY2008 levels.

Pasadena Water and Power (PWP) encourages all customers to consider the benefits of clean, renewable PV and participate in its new Pasadena Solar Initiative (PSI) Program, which was officially launched on January 1, 2009 with extensive customer outreach and a new website at www.pwpweb.com/solar. The PSI program was designed to parallel the CSI program design to the extent practical, including both expected and metered performance-based incentives (depending upon system size).

Implemented a process to match the state's California Solar Initiative. PWP contracted with Clean Power Research for a customized PowerClerk, an internet-based incentive application, tracking, and reporting software. Pasadena adopted higher rebate levels to reflect Pasadena's relatively lower retail electric rates (and corresponding lower financial benefit to its PV customers) and to stimulate a previously moribund level of PV activity.

PWP already offers net energy metering, but is evaluating certain aspects of its implementation to minimize any hurdles to PSI program participation.

Demand for program information has been high and PWP hosted three solar workshops for residential and commercial customers. PWP also hosted a vendor workshop to explain PWP's incentive structure and application process. Due to the increased interest in solar power and the anticipated rush of solar installations by the end of the year, we have scheduled three additional solar workshops by the end of the summer. In addition, three days of solar training for installers, building officials, and utility personnel was provided.

"Go Solar in 2008 and Save Big" campaign increased public outreach and education. Created special events and media channels including flyers, presentations, website, and advertisements on local newspapers and newsletters.

b) Future Opportunities and Challenges:

We anticipate increased participation in the program due to the increasing interest in solar generation and the expected reduction in the Federal Investment Tax Credits by December 31, 2008. Our account managers have aggressively marketed the program. Over ten large non-residential customers have expressed an interest in more than 5MW, and PWP anticipates that customer participation may reach 2 MW or more in 2008 (nearly 15% of the program goal).

SB1 Solar Program Status Report – Pasadena

We actively encourage our non-profit and government customers to execute Power Purchasing Agreements (PPA) with Third Party companies to take advantage of federal tax credits, and have issued an RFP for PPA offers for city-owned facilities.

We anticipate special challenges with new SB1 requirements taking effect in January 1, 2009.

2. Program Performance

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
7	2	18.60 kW DC-STC 16.6 kW AC-PTC	20,754
Available Funding¹	Total Expenditures²	Incentives Awarded³	Incentives Paid
17,000,000 or more	\$88,707	\$776,108	\$56,404.00

3. Additional Information (as available)

a) Known customer application issues/applications not approved

None

b) Non PV solar systems installed

None

c) Facility end use information

Residential: 0
Commercial: 0
Industrial: 0
Non-Profit: 1 (one facility installed two systems)

d) Incentive and funding disaggregation (e.g., by incentive type, by end use, etc.)

There is a strong interest from non-residential customers for incentives, which were not available prior to this program. Expect demand for incentives to potentially exceed the projected \$17M over ten years.

4. Appendix

Additional program information, including program guidelines, incentive tables, program rules, etc.

Pasadena's PBI rate is designed such that customers installing an optimally-configured fixed-tilt PV system would be indifferent to receiving the one-time EPBB payment or five annual PBI payments, provided the system performs as expected and the customers expected rate of return or financing for the system are in line with that used to develop the PBI rate (8%).

¹ Total solar program funding available for the life of the program as approved by the local governing board.

² Includes all program expenditures, including administration and marketing.

³ Incentives awarded are for approved applications for systems not yet completed and have not yet been paid.

SB1 Solar Program Status Report – Pasadena

The net present value of total PBI payments received by a customer that installs a highly efficient fixed-tilt systems or solar tracking systems may exceed the equivalent EPBB incentive rate.

Incentives are summarized in the table below.

PSI Incentive Type	System Size	2008 Incentive Rates	Payment Schedule
Expected Performance Based Buydown (EPBB)	1 kW to 100 kW	\$3.50/watt for residential and commercial; \$4/watt for government and non-profit applicants	One lump sum payment after installation and inspection approval; based on <i>estimated</i> PV system AC capacity.
Performance Based Incentive (PBI)	100 kW to 1,000 kW	\$0.553/kWh for residential and commercial; \$0.632/kWh for government and non-profit applicants	Five annual payments for first five years after installation and inspection approval; based on <i>actual metered kWh output</i>

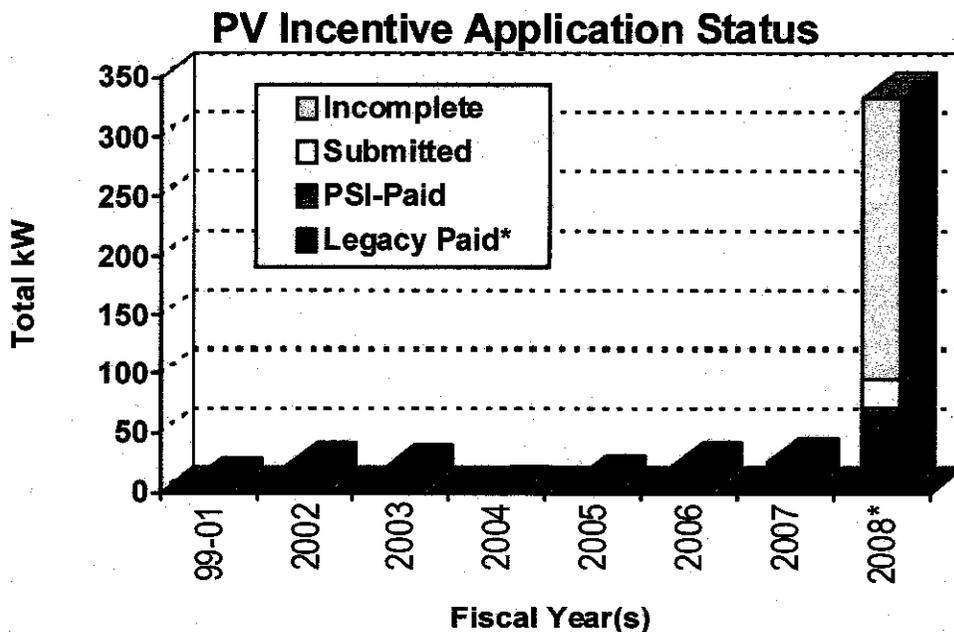
Energy surveys are required before incentives are paid. Residential and small business surveys are provide by third parties, free of charge to customers, and larger business energy surveys will be provided with the assistance of PWP account managers.

Additional information attached.

Council Authorized Solar Incentive Program

- Program approved September 24, 2007
- PBC Funding Ordinance (second reading) December 3, 2007
- 14,000 kW goal by 2017
- Adopted initial incentive rates at \$3.50/W for residential and business customers and \$4.00/W for governmental and non-profit customers (detail on Page 2)

Program Results as of March 31, 2008



Program Development and Implementation

- PSI utilizes statewide CSI guidelines, protocols, and forms to the extent possible:
 - Reduces consumer confusion
 - Easier for vendors to implement (they'll be more inclined to do business here)
- The **PSI web site**, www.pwpweb.com/solar, was launched 12/31/2007
 - Includes basic PSI program details
 - Includes workshop schedule and announcements
 - Includes links to various solar resources
- Customized "Clean Power Estimator" for PWP customers to estimate the financial and environmental impacts of going solar launched March 18, 2008.

Program Development and Implementation (Cont'd)

- Two-tier performance-based incentive structure implemented:
 - **Performance-Based Incentive (“PBI”)** from PV systems over 100 kW. Provides a flat cents-per-kWh annual payment for all metered output over the initial 5 years of system operation. The 2008 PBI rate is \$0.552/kWh for residential and commercial customers and \$0.631/kWh for government and non-profit customers.
 - **Expected Performance-Based Buydown (“EPBB”)** for PV projects up to 100 kW. Provides an up-front incentive based on an estimate of the system’s estimated performance, with maximum of \$3.50/W (net AC rating) for residential and commercial customers, and \$4.00/W for Government and Non-Profit customers.
 - See pages 3-5 for details on how EPBB rebates are calculated and how the PBI rates were determined
- An **energy audit** will be required prior to issuing incentive checks
 - Identify, and encourage customers to install, low-cost energy efficiency measures that may reduce the required capacity of their PV system
 - Residential audit under development, but customers can use PWP’s on line audit tool to get started
 - PWP will provide free audits to small commercial customers through third party services jointly retained by SCPPA
 - Account reps will provide guidance to large commercial customers
- The **on-line PSI application** system, <https://pwp.powerclerk.com/>, is active
 - Same application software system used by California IOUs under CSI
 - Vendor or customer must register to use the program
 - Program calculates exact PSI EPBB incentive based on user input
 - Program will *estimate* annual PBI incentives
- **Communication and Outreach**
 - AnswerLine staff briefed on PSI program to handle customer calls
 - General information in Currents, Conduit and Community Focus
 - “Go Solar in 2008 and Save Big” Campaign
 - PSI offers maximum incentives in 2008
 - Federal tax credits set to expire at end of 2008
 - Account managers are informing large customers about PSI and 30% tax credits
 - Issued RFP for PV installations at municipal facilities
 - Seven PSI Program Workshops will be held in 2008
 - Three residential/commercial customer workshops completed
 - One vendor workshop completed
 - Three residential/commercial workshops scheduled for remainder of year

Detail on Performance-Based Incentives

- **State Program, Requirements, and Guidelines**
 - The California Solar Initiative (“CSI”) program and www.gosolarcalifornia.ca.gov website is well established for investor-owned utilities (“IOU’s”), but still evolving
 - The California Energy Commission (“CEC”) adopted its Final Guidelines For California's Solar Electric Incentive Programs Pursuant To Senate Bill 1 on December 19, 2007. *These rules apply to municipal utilities as well as IOUs.*
- **Actual or Expected Performance-Based Incentives**
 - Encourage efficient equipment selection and optimal configuration
 - Currently used by IOUs under the CSI
 - Have been incorporated into the PSI rebate structure
- **The CEC Encourages Use of Actual (Metered) Performance-Based Incentives**
 - Providing a PBI is the preferred way to promote high performing systems since the solar energy systems are incentivized based on their actual production (kWh) over the period during which the incentives are being paid
 - The PBI incentive payment is calculated by multiplying the incentive rate (\$/kWh) by the measured kWh output
 - Program administrators (such as PWP) may choose to voluntarily use the PBI approach for any size solar energy systems
 - PBI payments shall be made over a minimum 5-year period following system installation, submission, and approval of incentive claim materials.
 - PBI payments shall be based on a \$/kWh incentive rate and the actual electricity (kWh) produced in time periods established by the program administrator.
- **How the CSI EPBB Approach, Used by IOUs, Works**
 - IOU customers receive EPBB payments based on their system's CEC-AC rating (DC capacity x inverter efficiency) multiplied by two factors:
 - Geographic correction, which adjust for the customers location
 - Design correction, which is the systems expected summer energy output divided by the summer energy output for an optimally-configured system
 - The product of these two correction factors is the “Design Factor”
 - The CSI EPBB currently ignores non-summer system performance
 - Customers or installers must use a publicly-available tool (found at <http://www.csi-epbb.com/>) to estimate the Design Factor of their system
 - Vendors must manually enter the Design Factor into the Power Clerk CSI application tool and include a copy of the CSI-EPBB printout with the application

- **How the PSI EPBB Approach Works**
 - PWP customers will receive EPBB payments based on their system's CEC-AC rating (DC capacity x inverter efficiency) multiplied by the Design Factor:
 - The Design Factor is the systems expected annual energy output divided by the annual energy output for a Reference System in Pasadena
 - For 2008, the EPBB Reference System will be a South-facing 2/12 pitch (10°) installation that produces 1,584 kWh annually per CEC AC kW installed
 - The Design Factor will be limited to a maximum of 1.0
 - Customized publicly-available tool (Clean Power Estimator):
 - Estimates the Design Factor of their system and their PSI rebate
 - Estimates their system's costs, payback, and environmental impact based on user-input
 - PWP's PSI Power Clerk rebate application program will perform all EPBB calculations. Vendors must enter the relevant data into the application tool
 - Since the PSI EPBB considers full-year performance, the resulting Design Factor tends to 5-10% lower than under the CSI-EPBB method. Regardless, PSI rebates are substantially higher more than current CSI rebates based on their \$2.50/W reference level.

- **How the PSI PBI Approach Works**
 - Under the Performance-Based Incentive ("PBI") approach, customers are paid a flat cents-per-kWh annual payment for all metered output over the initial 5 years of system operation.
 - The 2008 PBI rate is \$0.552/kWh for residential and commercial customers and \$0.631/kWh for government and non-profit customers.
 - Required for PV systems over 100 kW, but customers with smaller systems may choose PBI.
 - Revenue-quality performance meters are required
 - PWP is evaluating feasibility of providing monthly PBI incentives on the electric bill in lieu of annual payments in arrears. The PBI rate would be reduced to reflect difference between monthly and annual amortization.

• **Basis for the Pasadena Solar Initiative PBI Rate**

Pasadena's PBI rate is designed such that customers installing an optimally-configured fixed-tilt PV system would be indifferent to receiving the one-time EPBB payment or five annual PBI payments, provided the system performs as expected and the customers expected rate of return or financing for the system are in line with that used to develop the PBI rate (8%).

The net present value of total PBI payments received by a customer that installs a highly efficient fixed-tilt systems or solar tracking systems may exceed the equivalent EPBB incentive rate.

The 2008 PBI rate was calculated as follows:

- A. Determine a levelized payment amount that provides equivalent of the EPBB
 - Incentive paid in 5 end-of-year equal payments
 - Payments are discounted at 8% (same as used by IOU's under the CSI PBI)
 - The present value of the five payments should be equal to the EPBB
 - Result is \$0.877/W per year for \$3.50/W and \$1.022/W per year for \$4.00/W
- B. Determine annual energy output of a "1 kW PBI Reference System"
 - Annual output is calculated using industry-standard PV performance models
 - Based on "optimally" configured fixed-tilt array for Pasadena area, 1,656 kWh would be produced annually per CEC AC kW installed
 - For 2008, the PBI Reference System will be a South-facing 2/12 pitch (10°) installation that produces 1,584 kWh annually per CEC AC kW installed (same as EPBB program)
 - Note: Using 18.1% capacity factor (same as used by IOU's under the CSI PBI), 1,588 kWh would be produced annually per CEC AC kW installed
 - For 2008, the PBI Reference System will use the lower (1,588 kWh) output, providing PBI rates approximately that are 4.2% higher
- C. Determine PBI rate (¢/kWh) that provides equivalent of the EPBB rate (\$/W)
 - Divide the annual payment from Step A by the annual energy from Step B
 - Assume constant 1,588 kWh/year energy output for the Reference System
 - Result is \$0.552/kWh for \$3.50/W rate and \$0.631/kWh for \$4.00/W rate

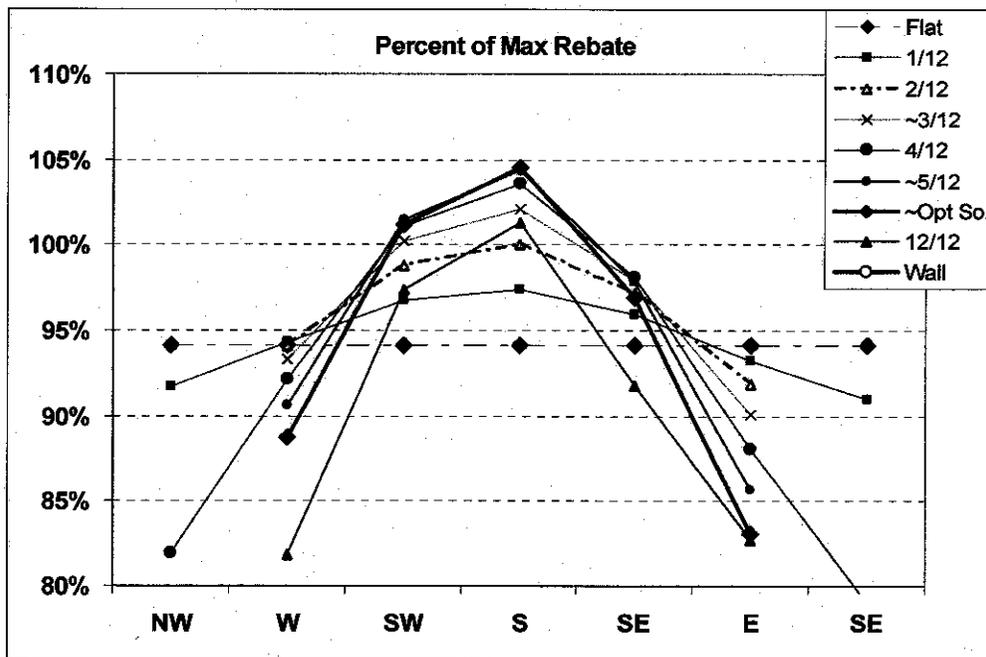
Pasadena PBI Calculations

EPBB Up-Front Payment	\$3.50/W	\$4.00/W
Disc Rate	8.0%	8.0%
Annual Payment (A)	\$0.877/W	\$1.002W
Reference System		
Capacity Factor	18.1%	18.1%
Output kWh/year (B)	1,588	1,588
PBI Rate\$/kWh (A)/(B)	\$0.552	\$0.631

EPBB Reference System

- For 2008, the EPBB Reference System will be a South-facing 2/12 pitch (10°) installation that produces 1,584 kWh annually per CEC AC kW installed
- With “minimal shading,” most southwest to southeast oriented systems at typical residential roof pitches will receive at least \$3.45/W or 95% of the maximum EPBB; and, typical west facing systems will receive at least \$3.25/W or 90% of the maximum.
- The Reference System will be revisited no later than January 1, 2009.

PSI EPBB Incentive Rates – Relative to Adopted \$/W Incentive Level



Effective EPBB Rebate Amount - \$3.50/W Incentive Level

Array Tilt		Array Orientation				
		W	SW	S	SE	E
Roof Pitch	Degrees	270	225	180	135	90
Flat	0	\$3.29	\$3.29	\$3.29	\$3.29	\$3.29
2/12*	10	\$3.29	\$3.46	\$3.50	\$3.40	\$3.21
4/12	18	\$3.22	\$3.54	\$3.62	\$3.43	\$3.08
Optimal	34	\$3.11	\$3.54	\$3.66	\$3.39	\$2.91
12/12	45	\$2.86	\$3.41	\$3.54	\$3.21	\$2.89
Wall	90	\$1.84	\$2.22	\$2.19	\$2.03	\$1.62

* South-Facing 1/12 Pitch Reference System

SUN FOR EVERYONE



The Pasadena Solar Initiative is Pasadena Water & Power's commitment to helping its customers install a total of 14,000 kilowatts of solar power by 2017.

With that goal in mind, Pasadena Water & Power (PWP) has improved and expanded its existing residential solar rebate program to make solar power more affordable for everyone. Beginning in 2008, all PWP customers - commercial, residential, institutional and non-profits - are eligible to receive significant rebates on solar photovoltaic (PV) installations. What's more, with incentives for PV systems up to 1000 kW in size, PWP is making it more feasible than ever for its largest customers to meet much of their energy needs by harnessing the free power of the sun.

SAVE BIG IN 2008!

Now is the best time to go solar. By taking advantage of solar incentives from PWP and the federal government in 2008, you could save up to 30% - 75% on your system's cost. But these incentives won't last. Rebate amounts from the Pasadena Solar Initiative are expected to decrease in 2009. Federal incentives - \$2,000 for home installations and tax credits of up to 30% of PV system cost for businesses - will expire on December 31, 2008. (Visit www.energytaxincentives.org to learn more about federal incentives for solar power.)

Also, for a limited time, the PSI Rebate Program will reimburse solar installation permit fees paid to the City of Pasadena. So if you've been thinking about going solar, 2008 is the year to do it and save big on your system's cost and start saving on your utility bill.

HARNESS THE POWER TO SAVE

The Pasadena Solar Initiative (PSI) Rebate Program has eliminated the previous rebate cap and now offers performance-based rebates for PV systems up to 1000 kW in size installed on or after January 1, 2008. That means a potential savings of about \$5000 - \$10,000 for most small commercial or residential installations, or up to hundreds of thousands of dollars in savings for large commercial installations.

The actual PSI rebate amount you will receive depends on the size and design of your PV system installation and your customer classification:

PV SYSTEM SIZE	2008 REBATE RATES	PAYMENT SCHEDULE
1kW - 100 kW SYSTEM	\$3.50 / Watt* for residential and commercial applicants	"EXPECTED PERFORMANCE-BASED BUYDOWN" One lump sum payment after installation and inspection approval; based on estimated energy output
	\$4 / Watt* for government and non-profit applicants	
OVER 100 kW UP TO 1,000 kW	\$0.553 / kWh ** for residential and commercial	"PERFORMANCE-BASED INCENTIVE" Five annual payments for first five years after installation and inspection approval; based on actual metered output.
	\$0.632 / kWh ** for government and non-profit applicants	

* Wattage is based on your system's estimated energy output, which is calculated using design factors - shade, angle, etc. - that affect system performance.

** Kilowatt hours are based on your system's actual metered energy output.

PASADENA
SOLAR INITIATIVE AND REBATE PROGRAM



PASADENA
Water & Power
SERVING THE COMMUNITY SINCE 1906



ESTIMATE YOUR SAVINGS

Want an estimate of what your solar PV system's energy output and corresponding PSI rebate would be? The Clean Power Estimator at PWPweb.com/solar will calculate your estimated PSI rebate incentive, plus your rate of return on investment, utility bill savings, and carbon emissions reduction based on the size and design specifications of your PV system.

GOING SOLAR MADE EASY

There are many qualified solar installers available who will not only help you choose and install a PV system that meets your energy needs, but will also take you step by step through the PSI rebate application and permitting process. Take your first step toward going solar today by contacting a qualified solar PV vendor or installer. While PWP does not certify or recommend PV equipment manufacturers or installers, PWP provides a listing at PWPweb.com/solar.

PASADENA SOLAR INITIATIVE REBATE APPLICATION OVERVIEW***

1. Find a qualified installer to help determine your solar energy needs and guide you through the PSI rebate application process.
2. Installer registers for PSI Rebate Program and submits PSI on-line application to reserve rebate funds - Call (626) 744-6970 to register
3. Install solar PV system as specified in application
4. City of Pasadena conducts building code and electrical inspections and clears PV system for interconnection to City's power grid
5. Submit rebate claim and receive rebate within 4-6 weeks

***Program requirements apply. Go to PWPweb.com/solar to learn more.

For full details on the PSI rebate application process, to learn more about program requirements, or find a listing of solar vendors and installers, please visit pwpweb.com/solar or call (626) 744-6970

PASADENA
SOLAR INITIATIVE AND REBATE PROGRAM



PASADENA
Water & Power
SERVING THE COMMUNITY SINCE 1906

SB1 Solar Program Status Report

Utility Name: Riverside Public Utilities

Program Reporting Period:

From Program Inception: January 1, 2008
 Through: May 31, 2008

1. Program Activities

a) Summary of Program Activities:

The Residential PV program began in June of 2004 however was not under the SB 1 program auspices. In compliance with SB 1, RPU made changes to the residential program and implemented a commercial PV rebate as well as a funding source specifically for the educational facilities within the territory. The rebate programs, both Residential and Commercial, can receive up to \$3 per watt installed AC or 50% of the project cost, whichever is less. There are incentive caps for each level of customer ranging from \$25,000 for residents up to \$500,000 for large industrial users. Since program inception on January 1, over 15 installations have occurred. Since 2004, 45 installations and rebates have been given.

b) Future Opportunities and Challenges:

In the latter part of 2008 staff will review declining rebates and EPBI incentives and other SB 1 guideline modifications. There are a number of residential and commercial installations in the planning process and a large solar system is being sought.

2. Program Performance

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
15	15	69.59	194,852
Available Funding ¹	Total Expenditures ²	Incentives Awarded	Incentives Paid
\$1.25 million	\$205,059	\$205,059	\$205,059

3. Additional Information (as available)

a) Known customer application issues/applications not approved

None at this time.

b) Non PV solar systems installed

None at this time.

c) Facility end use information

14 residential and 1 commercial in 2008.

d) Incentive and funding disaggregation (e.g., by incentive type, by end use, etc.)

Current \$3.00 per AC watt with caps beginning at \$25,000 residential, \$50,000 commercial. Planned declining rebates EPBI and PBI being reviewed with base and enhanced incentives for utility credit for renewable attributes.

4. Appendix

Additional program information, including program guidelines, incentive tables, program rules, etc.

¹ Total solar program funding available for the life of the program as approved by the local governing board.

² Includes all program expenditures, including administration and marketing.