



Solar Energy Program Status Report

June 2008



**Alameda Power & Telecom
City of Biggs
City of Gridley
City of Healdsburg
City of Lodi
City of Lompoc
City of Palo Alto
Plumas Sierra Rural Electric Cooperative
Port of Oakland
City of Redding
City of Roseville
Silicon Valley Power
Truckee Donner Public Utility District
Turlock Irrigation District
City of Ukiah**

TABLE OF CONTENTS

EXECUTIVE SUMMARY	3
Solar Energy Program Status Reports	
CITY OF BIGGS	4
CITY OF GRIDLEY	14
CITY OF HEALDSBURG	15
CITY OF LODI	16
CITY OF LOMPOC	18
CITY OF PALO ALTO	19
PLUMAS SIERRA RURAL ELECTRIC COOPERATIVE	21
PORT OF OAKLAND	28
CITY OF REDDING	29
CITY OF ROSEVILLE	34
SILICON VALLEY POWER	39
TRUCKEE DONNER PUBLIC UTILITY DISTRICT	42
TURLOCK IRRIGATION DISTRICT	55
CITY OF UKIAH	57

EXECUTIVE SUMMARY

The California State Legislature enacted SB1 (Murray, 2006) to encourage the installation of 3,000 megawatts of photovoltaic (PV) solar energy by the year 2017. SB1 requires all publicly owned utilities to adopt, finance, and implement a solar initiative program for the purpose of investing in and encouraging the increased installation of residential and commercial solar energy systems. NCPA members established SB1-compliant programs in 2007 and the following report provide a snapshot of early program performance.

Collectively, NCPA members have performed well in launching their solar energy programs. These programs, while incorporating uniform state guidelines, have been developed to meet the unique needs of the communities they serve. As such, they 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 impressive:

- 370 solar photovoltaic systems installed.
- 879 kilowatts of installed generating capacity.
- \$8,303,500 of utility incentives have been awarded for planned and installed systems.

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

Entity	Number of Applicants	Total Systems Installed	Installed Capacity (kW)	Annual Generation (kWh)	Total Expenditures	Incentives Awarded	Incentives Paid
NCPA Aggregated Results	1,606	370	878.79	1,372,482	\$ 3,460,799	\$ 8,303,500	\$ 3,272,634
Alameda Power & Telecom	21	2	6.20	9,453	\$ 8,408	\$ 1,887,282	\$ 8,408
City of Biggs	0	0	-	-	\$ -	\$ -	\$ -
City of Gridley	0	0	-	-	\$ -	\$ -	\$ -
City of Healdsburg	0	0	-	-	\$ -	\$ -	\$ -
City of Lodi	15	4	23.60	35,400	\$ 70,004	\$ 456,850	\$ 66,004
City of Lompoc	3	1	3.90	6,837	\$ 15,000	\$ 13,906	\$ 13,906
City of Palo Alto	137	92	250.00	411,683	\$ 781,148	\$ 2,344,461	\$ 726,592
Plumas Sierra REC	2	1	2.40	50	\$ 19,206	\$ 12,000	\$ 6,000
Port of Oakland	0	0	-	-	\$ -	\$ -	\$ -
City of Redding	14	14	27.88	10,200	\$ 101,889	\$ 79,140	\$ 79,140
City of Roseville	1,354	235	473.70	761,279	\$ 2,014,605	\$ 2,118,116	\$ 2,013,524
Silicon Valley Power	13	5	12.20	20,132	\$ 130,400	\$ 710,588	\$ 55,405
Truckee Donner PUD	10	0	-	-	\$ -	\$ 174,689	\$ -
Turlock Irrigation District	35	16	78.91	117,448	\$ 320,139	\$ 506,468	\$ 303,655
City of Ukiah	2	0	-	-	\$ -	\$ -	\$ -

Note: Program reporting time period is January 1, 2008 through March 31, 2008. Also includes the results of SB1 programs launched prior to Jan-2008 by Silicon Valley Power, City of Palo Alto, City of Roseville, and Turlock Irrigation District.

Flexibility and innovation are key components of NCPA member programs and have been instrumental in initial program successes. However, in the coming years, CEC guidelines will mandate program changes that will inhibit flexibility and thus add to the uncertainty of continued program success. Of particular concern will be the consumer's response to prescriptive energy efficiency improvements as part of a solar energy system installation. Despite these and other challenges, NCPA and its members remain committed to working with the solar industry and with policymakers to develop successful programs that will help the state achieve its ten year solar energy goals.

SB1 Solar Program Status Report

Utility Name: Alameda Power & Telecom

Program Reporting Period:

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

1. Program Activities

a) Summary of Program Activities:

Alameda Power & Telecom launched its State Solar PV Program on January 1, 2008. Based on the SB1 formula for municipal utilities, the program is to offer \$4.2 million in rebates that are to be paid at \$420,000 each year for ten years. Since July of 2007, the utility offered a workshop to gain citizen input on how the Solar Program should be structured and the Public Utility Board approved the program in November 2007. Applications are available at Alameda P&T offices, public agencies, and at Earth Day and other public events. Complete workshop information, application forms, procedures, and information on the rebate process are available on the website at: http://www.alamedapt.com/electricity/solar_pv_info.html

b) Future Opportunities and Challenges:

In addition to one large commercial solar installation that has been approved, the community college and other commercial customers are reviewing opportunities for photovoltaic installations.

Challenges – at this time only finalizing the requirements for fire safety setbacks and the requirements for meters and installation guidelines.

2. Program Performance

# Applicants	Total Systems Installed	Total kW Installed	Estimated Annual Generation (kWh)
21	2	6.2	9,453
Available Funding ¹	Total Expenditures ²	Applications Approved	Incentives Paid
\$4,200,000	\$8,408	\$1,887,282	\$8,408

3. Additional Information (as available)

a) Known customer application issues/applications not approved

One application returned to customer because it was sized much larger than the annual load. One commercial customer dropped out of program because it decided not to site their project in Alameda.

b) Expense Breakdown

\$420,000 annual budget for solar: Residential customers get 1st preference for 2008 and a reserved 20kW per year for of rebates for 2009 and 2010. There is no limit on funds paid to commercial customers (up to 1MW system size) after the 1st preference for residential customers is satisfied.

c) Incentive Breakdown

Based on installed kilowatt capacity. Funding will be from a \$0.000101 per kWh charge on all customers except street and area lights and municipal/school district customers.

¹ Total solar program funding available for the life of the program as approved by the Public Utility Board.

² Includes only program rebates.

d) Installation Breakdown

Approved	Watts	Rebate \$
Low Income	23,385	65,478
Residential	37,506	100,604
Commercial	785,606	1,721,200

e) Non-PV Solar Installed

Not Applicable

4. Appendix

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

1. Rebate funds are provided on a first-come, first-served basis with residential customers receiving 1st preference for 2008 and a reserved 20 kW per year for of rebates for 2009 and 2010. The remainder of the rebate funds are available for commercial customers. There is no cap on the rebate amount available to a customer other than a 1 MW maximum and the system must be sized to meet no more than a customer’s annual load.
2. The table for payment of rebates is:

Year	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Max kW	150	162	174	187	201	215	232	250	268	288
Rebate (\$ / kW)	\$ 2.80	\$ 2.60	\$ 2.42	\$ 2.25	\$ 2.09	\$ 1.95	\$ 1.81	\$ 1.68	\$ 1.57	\$ 1.46

3. The rebate levels for 2008 and succeeding years will not be finalized until the end of 2008 when the total number of residential customers will have exercised their 1st preference.
4. In order to maintain the position in the rebate queue, a solar system customer must begin construction within six months of filing the rebate application.
5. Rebates are only provided to solar systems meeting optimal direction and tilt criteria from the following table:

	Slope	Flat	4:12	7:12	12:12	21:12
Direction	Degrees	0	13	30	45	60
S	180	0.89	0.97	1.00	0.97	0.89
SSE, SSW	158, 203	0.89	0.97	0.99	0.96	N/A
SE, SW	135, 225	0.89	0.96	0.96	0.93	N/A
ESE, WSW	113, 248	0.89	0.92	0.91	N/A	N/A
E, W	90, 270	0.89	N/A	N/A	N/A	N/A

SB1 Solar Program Status Report

Utility Name: Biggs Municipal Utilities

Program Reporting Period:

From Program Inception: January 1, 2008

Through: March 31, 2008

1. Program Activities

a) Summary of Program Activities:

Finalized Solar Program literature & forms with consultant. Included notice of program availability on customer utility bills.

b) Future Opportunities and Challenges:

Creating marketing materials to try to generate interest in solar PV systems.

2. Program Performance

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
0	0	0	0
Available Funding¹	Total Expenditures²	Incentives Awarded	Incentives Paid
\$13,500.00	0	0	0

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

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. See below

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.

Biggs Municipal Utilities

PV BUY DOWN PROGRAM

Photovoltaic Systems



Our new Photovoltaic (PV) Buy Down Program is available to help offset your investment in a PV system and get you on the road to making use of renewable energy. Biggs Municipal Utilities provides rebates to its customers to reduce the initial system cost.

All California utilities are required to collect Public Benefits Funds from their customers. These funds are to be used by the utilities to develop and implement public purpose programs such as energy efficiency programs and photovoltaic programs. Biggs Municipal Utilities is committed to promoting and supporting renewable technologies and is offering its customers rebates to reduce the purchase and installation costs for PV systems and a net metering credit for producing solar electricity.

The Biggs Municipal Utilities PV Program uses its customer funds to provide these solar incentives. To obtain the best value for our customers, the Biggs Municipal Utilities PV Program is designed to encourage the installation of PV Systems that produce the maximum amount of energy possible, so our Program incentive is calculated based on an Estimated Performance Calculation.

ELECTRICITY FROM THE SUN

Photovoltaic is the direct conversion of light into electricity. Certain materials, like silicon, naturally release electrons when they are exposed to light, and these electrons can then be harnessed to produce an electric current. Several thin wafers of silicon are wired together and enclosed in a rugged protective casing or panel. PV panels produce direct current (DC) electricity, which must be converted to alternating current (AC) electricity to run standard household appliances. An inverter connected to the PV panels is used to convert the DC electricity into AC electricity.

The amount of electricity produced is measured in watts (W). A kilowatt (kW) is equal to 1,000 watts. A Megawatt (MW) is equal to 1,000,000 Watts or 1,000 Kilowatts. The amount of electricity used over a given period of time is measured in kilowatt-hours (KWh).

HOW DOES THE BUYDOWN PROGRAM WORK?

The amount of the rebate is based on the Estimated Performance (kilowatt hour production) of the system, and converted to the effective annual AC generating capacity of the PV system measured in AC watts. The rebate amount for the first year is \$2.80 per AC watt for systems up to a maximum size of 3 kW. Currently, the total amount available for rebates each year is limited to \$18,000 per year for all installations. Rebates are available on a first come, first served basis and are limited to \$8,400/ residence and \$8,400/commercial installation.

Biggs Municipal Utilities electric customers that abide by the PV program terms and conditions, install a qualifying PV system and enter into an Interconnection Agreement with City of Biggs Utilities are eligible for a Buy Down incentive.

Biggs Municipal Utilities PV Buy Down Program

How do I apply for the PV system rebate and net metering?

To qualify for the rebate you must:

1. Be a customer receiving electricity distributed by Biggs Municipal Utilities.
2. Obtain the PV Program Package from City of Biggs. The package contains: 1) PV Program Application Form and 2) Two copies of the Biggs Municipal Utilities Net Metering/Interconnection Agreement Form.
3. Complete and submit all three items, filled out and signed, to the City of Biggs. The City will respond with a letter confirming acceptance of the application, and confirming the program incentive.
4. Once the Letter of confirmation has been received, install a PV system that is compliant with the terms and conditions of the Biggs Municipal Utilities PV Buy Down Program. A minimum 10-year full-system warranty against defective parts, workmanship, or unusual degradation of the system output from the PV retailer or installer is required.
5. When completed, request an inspection from the Butte County Building Department and the City of Biggs.
6. Submit the following documents to the City of Biggs at or before the time of inspection: 1) a copy of the receipt for the PV system, and 2) a copy of the PV system 10-year warranty. Customer should make and keep on file a copy of the Net Metering/ Interconnection Agreement once approved and signed by the City of Biggs.
7. Fill out an Application for Utility Service and request an electric meter set from City of Biggs Utilities after the system is approved by the City of Biggs. Requests must be made in person at the City Administrative Offices at 465 C Street in Biggs.

After the system is inspected/approved by Butte County Building Department and the City of Biggs and the required documents have been submitted to Biggs Municipal Utilities, you will receive your rebate check within thirty (30) days.

Program Requirements

Eligible generating systems must meet all of the following requirements:

Certified Components or Systems

All flat plate photovoltaic modules must be certified by a nationally recognized testing laboratory as meeting the requirements of the Underwriters Laboratory Standard 1703, and must appear on the latest California Energy Commission certified photovoltaic modules list available at the following website:

- http://www.consumerenergycenter.org/cgi-bin/eligible_pvmodules.cgi

All inverters must be certified as meeting the requirements of UL 1741 and appear on the latest California Energy Commission certified inverters list available at the following website:

- http://www.consumerenergycenter.org/cgi-bin/eligible_inverters.cgi

Contractors and Installation Codes and Standards

Photovoltaic systems must be installed by appropriately licensed California contractors in accordance with rules and regulations adopted by the State of California Contractors' State Licensing Board and must in all cases be installed in conformance with the manufacturer's specifications and with all applicable electrical and other codes and standards. Contractors must possess, or employ subcontractors who possess, an A, B, C-10 or C-46 license.

Grid Connected

Eligible systems in the PV Buy Down program must be grid-connected. This means simply that the system must be electrically connected (on the customer's premises) to Biggs Municipal Utilities' electrical grid serving the customer's electrical load. The interconnection must comply with any applicable electrical codes and interconnection requirements. The system offsets the customer's energy use either directly, by supplying electrical energy otherwise supplied by local utility electrical grid, or indirectly, by supplying electrical energy to the local utility electrical grid which is then available for use by the customer or others.

Warranties

All retailers of generating systems that receive a PV Buy Down payment under this program must provide a minimum **ten-year** warranty to the purchaser against breakdown or degradation of output. The warranty must cover all of the components of the generating system that are eligible for the PV Buy Down against breakdown or degradation in electrical output of more than ten percent from their originally rated electrical output. The warranty shall cover the full cost of repair or replacement of defective components or systems. Where the retailer is also the installer or professionally contracts for the installation the warranty must also cover labor costs to remove and reinstall defective components or systems. You will need to provide Biggs Municipal Utilities with a copy of the full warrantee(s) in order to process the PV Buy Down incentive.

Interconnection Agreement

In order to receive a PV Buy Down incentive the customer must agree to the terms of, and enter into, an Interconnection Agreement with Biggs Municipal Utilities.

Purchaser/Retailer/Installer Information

Provide all information on the Purchaser, Retailer and/or Installer as requested. For Purchaser, the Federal Tax ID Number is your Social Security Number. Your Federal Tax Identification number is required if you are going to receive the rebate.

Generating System

Information on the generating system (modules and inverter) should be provided by the retailer or installer. The **PTC Module Power Rating** refers to the "PVUSA Test Conditions" watt-rating used by the State of California. This rating for each brand/model of module can be found at:

http://www.consumerenergycenter.org/cgi-bin/eligible_pvmodules.cgi

Total Array Output is the number of the PV modules multiplied by the PTC power rating of each module. **Peak Inverter Efficiency** refers to the level of the efficacy of the inverter to convert from direct to alternating current (DC to AC). Inverter peak efficiency levels are provided by inverter manufacturers and can also be found on the California Energy Commission website at:

http://www.consumerenergycenter.org/cgi-bin/eligible_inverters.cgi .

Estimated Performance Based Capacity Calculation

The **Estimated Performance Based Capacity** is the **Total Array Output** multiplied by the **Peak Inverter Efficiency** (e.g., 94%) multiplied by a **Design Factor**. The Design Factor is the multiple of the **orientation factor**, and **shading factor** for the PV system in our utility service area. The **Orientation Factor** for any tilt oriented *within 45 degrees of true south* is 1.0; for systems oriented from 45 degrees to 90 degrees from true south, the **Orientation Factor** is 0.9. To derive the **Shading factor**, use the Sun Charts for our area to determine percent of annual shading. The installer may also use the on-line EPBB calculator, if available, or other approved software.

Orientation (Compass Direction)	Tilt	Orientation Factor
Horizontal	0	1.0
135° to 225° Azimuth	Any	1.0
225 to 270°	Any	1.0
90-135°	Any	0.9
North of East-West	--	0.0 (no incentive)

Percent Annual Shading (derived from Sun Chart)	Shading Factor
0% to 15%	1.0
15% to 25%	0.9
25% to 35%	0.75
>35%	0.0 (no incentive)

The result of this Estimated Performance calculation is a system rating in wattsAC.

Rebate

The **Rebate** is equal to the **Estimated Performance** multiplied by \$2.80 / wattAC

Rebate = Total Array Output x Peak Inverter Efficiency x Design Factor x \$2.80

Who Will Receive the Rebate?

Check the box indicating whether the purchaser or retailer will receive the rebate check. Biggs Municipal Utilities will default and send the rebate to the customer if this box is not checked. Keep a copy of your signed and completed PV Buy Down Program Application and Interconnection Agreement for your records.

Biggs Municipal Utilities PV Buy Down Program

Completing the Application

Purchaser Information

Provide the name and daytime phone number of the Purchaser of the system. Provide the street address where the system is to be installed and the Utility Account Number for that location. If the Purchaser will be receiving the rebate, a Federal Tax ID number is required.

Seller Information

Provide the name, address, business phone number, and Business Resale Number of the Retailer (seller) of the system. If the Retailer is also the Installer, provide the California license class (A, B, C-10, C-46) and license number.

Installer Information

Provide the Installer's name, if different from the Retailer and the California license class (A, B, C-10, C-46) and license number of the Installing Contractor.

Generating System

Enter the PV manufacturer's name, the PV module model number, and the PVUSA Test Condition (PTC) rating of the modules. The PTC rating is obtainable from the Web site listed below for each module.

Only photovoltaic modules that have been certified by a nationally recognized testing laboratory as meeting the requirements of the Underwriters Laboratory Standard 1703 are eligible for the Rebate Program. A list of certified modules can be obtained from the California Energy Commission (CEC) via their website at:

http://www.consumerenergycenter.org/cgi-bin/eligible_pvmodules.cgi

- Enter the total Array Output (watts_{AC}), which equals the number of modules multiplied by the PTC module power rating.
- Enter the manufacturer, model, and peak inverter efficiency of the inverter in your system. Inverters must be certified as meeting the requirements of UL 1741 by a nationally recognized testing laboratory. A list of certified inverters can be obtained from the CEC's website at:

http://www.consumerenergycenter.org/cgi-bin/eligible_inverters.cgi

System Rated Output

- Multiply the Total Array Output (Watts_{DC-PTC}) by the Peak Inverter Efficiency to determine the System Rated Output (Watts_{AC}) and enter the output in the box provided. Enter information pertaining to meters used for measurement of kilowatt-hour production of the PV system.

Estimated Performance Based Capacity Calculation

- Enter the Orientation and Shading amounts, and using the table, derive the Orientation and Shading Factors. Multiply these Factors to yield the Design Factor. Multiply the Total Array Output x the Design Factor to yield the Estimated Performance Based Capacity Calculation.

Rebate

- Multiply the Estimated Performance Based Capacity (watts_{AC}) by \$2.80 per watt and enter it on the form.

Receiver of Rebate

- Designate whether the rebate payment is to go to the Retailer or to the Purchaser.

Sign and Submit

- Review the Terms and Conditions, and Tax Liability
- The Purchaser must sign and date the completed PV Buy Down Program Application.
- Purchaser must attach to the application a copy of either 1) a PV System Proposal, or 2) a Letter of Intent to purchase a PV system.
- Submit application and attachments to:

Biggs Municipal Utilities
PV Buy Down Program
465 C Street, P.O. Box 307
Biggs, CA 95917-0307

Approval from Biggs Municipal Utilities

1. • Upon receipt and approval of your application, City of Biggs Utilities will send you a PV Buy Down Program Reservation Confirmation letter to inform you that rebate funds are available and have been allocated for your project.

SB1 Solar Program Status Report

Utility Name: _____ City of Gridley _____

Program Reporting Period:

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

1. Program Activities

a) Summary of Program Activities:

Gridley launched its program just before the end of 2007 and has had one interested customer so far, who is in the process of their installation.

b) Future Opportunities and Challenges:

Achieving its pro-rated portion of the SB1 goal will probably require additional marketing in order to assure that Gridley citizens are aware of the program.

2. Program Performance

	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
# Applicants	0	0	0
Available Funding¹	Total Expenditures²	Incentives Awarded	Incentives Paid
\$450,000	\$0	\$0	\$0

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

NA

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

NA

4. Appendix

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

NA

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 Healdsburg

Program Reporting Period:

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

1. Program Activities

a) Summary of Program Activities:

Healdsburg has had a PV program in place for a few years and citizens are aware of its existence. The level of activity in this time period is consistent with the activity level of the past few years.

b) Future Opportunities and Challenges:

Achieving its pro-rated portion of the SB1 goal will probably require additional marketing in order to assure that Healdsburg citizens are aware of the program.

2. Program Performance

	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
# Applicants	0	0	0
Available Funding¹	Total Expenditures²	Incentives Awarded	Incentives Paid
\$80,000	\$0	\$0	\$0

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

NA

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

NA

4. Appendix

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

NA

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: Lodi Electric Utility

Program Reporting Period:

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

1. Program Activities

a) Summary of Program Activities:

Lodi Electric Utility launched its Lodi Solar Rebate Pilot Project on January 1, 2008. The program is to expend - based upon the state formula – approximately \$6 million over ten years. Since July of 2007, the utility has offered two (2) free solar fair events for the general community, whereby at each event, nearly 20-25 licensed solar contractors set up a table and presented their services to the general public. Each community event drew in excess of 250 people. In addition, the utility has made mentions of the Lodi Solar Rebate Pilot Project in its quarterly newsletter and in two issued press releases.

b) Future Opportunities and Challenges:

Newspaper ads promoting the solar rebates will run in May of 2008, and again in mid-summer of 2008. A third solar fair is scheduled for July/August of 2008 at Lodi’s community center, Hutchins Street Square. In addition, Electric Utility staff is providing the Lodi City Council, which is the utility’s governing board, with an update on the Lodi Solar Rebate Pilot Project in early June at a City Council meeting.

Challenges – at this time, Lodi Electric Utility has yet to encounter any major obstacles, challenges or issues with the solar rebate program.

2. Program Performance

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
15	4	23.6	35,400 (annually)
Available Funding¹	Total Expenditures²	Incentives Awarded	Incentives Paid
\$6,000,000	\$70,004	\$456,850	\$66,004

3. Additional Information (as available)

a) Known customer application issues/applications not approved

No application issues to date; no applications have been rejected as of this date.

b) Non PV solar systems installed

Not applicable.

c) Facility end use information

Not applicable.

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

Annual budget for solar: \$600,000; \$450,000 allocated to non-residential and \$150,000 allocated to residential (to date, 73% of non-residential funds are reserved and 84% of residential funds are reserved and/or paid to customer.

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.

4. Appendix

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

1. Rebate funds are provided on a first-come, first-served basis; 75% of the total annual \$600,000 solar rebate fund is allocated to non-residential solar systems and 25% to residential solar systems.
2. Rebates for 2008 begin at \$2.80/watt; total maximum rebate available to ANY customer is \$375,000 (for any rebate in excess of \$75,000, the rebate is paid out over five years or until rebate obligation is met – whichever occurs first).
3. In the event that one rate class does NOT reserve the entire available rebate funds allocated for the calendar year 2008 by **November 1**, then customers from the other rate class will have the opportunity to access those available rebate dollars.
4. Rebates are only provided to solar systems facing south, west or a combination thereof.

SB1 Solar Program Status Report

Utility Name: _____ City of Lompoc _____

Program Reporting Period:

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

1. Program Activities

a) Summary of Program Activities:

Lompoc has offered a rebate for installation of solar systems since October of 2004. Six residential systems have been installed prior to January 2008. One system was installed at the local high school as a learning lab for the science department. In 2007, Lompoc insured that all systems receiving a rebate met SB1 requirements.

b) Future Opportunities and Challenges:

Even though Lompoc has had good participation in the rebate program, it appears that future marketing will be necessary to promote installations. The City will install bi-directional radio read meters on all customers who have self-generating electric systems. These meters will provide three progressive reads; one the amount of electricity produced by the customer, one the amount of electricity used by the customer and one will provide the difference of the two reads which will be used for billing purposes.

2. Program Performance

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
3	1	3.9	6,837
Available Funding¹	Total Expenditures²	Incentives Awarded	Incentives Paid
\$67,185	\$15,000	\$13,906	\$13,906

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

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.

- rebate at \$3.50 watt, must follow all SB1 requirements

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 Palo Alto Utilities

Program Reporting Period:

From Program Inception: January 1, 2007

Through: March 31, 2008

1. Program Activities

a) Summary of Program Activities:

- Developed new program guidebook, application, brochure, and web content
- Hosted two consumer workshops, and provided daily phone and email support
- Sponsored the 2007 Palo Alto Solar homes tour
- Hosted a workshop for Bay Area building inspectors on Installing Code-Compliant PV Systems (co-hosted with Silicon Valley Power)
- Facilitated a meeting with local solar installers and the Palo Alto Building Dept. to address permit and inspection procedure issues
- Collaborated with the cities of Sunnyvale, Mountain View and Santa Clara to apply for a Federal Solar Cities grant to address regional barriers to cost-effective solar installations (grant application was not selected)

b) Future Opportunities and Challenges:

- CPAU worked with the Palo Alto Building Dept. to establish reasonable permit fees for both residential and commercial projects. CPAU also has offered to reimburse the Building department for consultant assistance to expedite PV plan review, as the high workload has slowed down the approval time.
- The Building Dept. has tightened the permit submittal and inspection for PV installations, creating a barrier for small solar companies to work in Palo Alto. CPAU is continuing to work with the Building department to establish more solar-friendly permit and inspection procedures.
- CPAU will sponsor a Green Homes tour for September 2008 to promote solar along with other green building techniques.
- The high demand for solar rebates has driven down the rebate levels faster than expected. This may cause a slow-down in installations until the installed costs begin to drop.

2. Program Performance

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
137	92	250	411,683
Available Funding ¹	Total Expenditures ²	Incentives Awarded ³	Incentives Paid
\$13M	\$ 781,148	\$2,344,461	\$726,592

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 that have not yet been paid

3. Additional Information (as available)

a) Known customer application issues/applications not approved

Most applications take a few weeks to be approved due to incomplete information. Only one project was cancelled during this reporting cycle.

b) Non PV solar systems installed

None

c) Facility end use information

Host Customer Type	No. of Installations	kW_AC
Residential	92	250
Below Mkt. Residential	0	0
Commercial	0	0
Non-Profit	0	0
Government	0	0
Industrial	0	0
Mixed Use	0	0
TOTAL	92	250
Building Type	No. of Installations	kW_AC
New Construction	45	92
Retrofit	47	158
TOTAL	92	250

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

Application Count	Total	Rebate Type	
		kW-based	Performance-Based-Incentive
Number Received	137	136	1
Number Approved	128	128	0
Number Rejected	1	1	0
Number Pending Approval	8	7	1
Number Installed	92	92	0

4. Appendix

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

1. PV Partners Program guidebook:

<http://www.cityofpaloalto.org/civica/filebank/blobload.asp?BlobID=8066>

SB1 Solar Program Status Report

Utility Name: Plumas-Sierra Rural Electric Cooperative
(PSREC)

Program Reporting Period:

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

1. Program Activities

a) Summary of Program Activities:

The Plumas-Sierra Solar Program (PSSP) is a pilot program designed to encourage members to install high-quality PV systems on their homes and businesses. Interest has been high, but applications remain low. Rebates and net-metering are provided, including compensation for net-generators of energy. PSREC also offers access to system design, financial analysis and discounted equipment through their partner, Cooperative Community Energy.

b) Future Opportunities and Challenges:

Technical problems with metering and billing of the net-metered accounts continue to be a challenge.

2. Program Performance

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
2	1	2.4	3,800
Available Funding ¹	Total Expenditures ²	Incentives Awarded	Incentives Paid
\$2,060,571	\$19,206	\$12,000	\$6,000

3. Additional Information (as available)

a) There are no known customer application issues

b) Non PV solar systems installed:

None, to the best of our knowledge.

c) Facility end use information:

All applications have been for residential systems.

d) Incentive and funding disaggregation:

\$140,000 in rebates is budgeted for each of the next 10 years, subject to change. See Appendix.

4. Appendix

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

1. See attached: “Plumas-Sierra Solar Program Guidebook 2008”

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.



Plumas-Sierra Solar Program Guidebook 2008

Plumas-Sierra Rural Electric Cooperative (PSREC) is now offering incentives to encourage the installation of solar photovoltaic (PV) systems in 2008. The California Million Solar Roofs Bill (SB1, August 2006) set a statewide goal to add 3,000 MW of new PV systems over ten years. The PSSP is a pilot program designed to encourage PSREC members to install high-quality photovoltaic systems in support of the Million Solar Roofs goal. The outcome of the program will be examined at the end of each year and appropriate revisions will be made to ensure progress toward program goals and equity among rate classes.

A rebate budget will be made available over the next ten years. The annual budget will be allocated across five rate classes (see Table 1). The rebate rates will decrease by 7% each year, per SB1 requirements.

In order to make available these rebates to our members, a 1.05% Solar Charge will be billed to all members, which will be added to the existing Public Benefits Charge, yielding a total 3.9% charge.

Program Eligibility and Requirements

Applicant

The PSSP is available to retail electric distribution members of PSREC. The Host Member must be the utility customer of record at the location where the generating equipment will be located. The System Owner may be the Host Member, or a third party, if the system is leased. The PSSP Applicant must be the Host Member.

To be eligible for an incentive, the Applicant must submit a Rebate Application and receive a Rebate Reservation Confirmation letter from PSREC prior to the Applicant receiving final interconnection authorization. If a rebate reservation expires, the member must reapply to the PSSP prior to receiving a final interconnection authorization. If a Host Customer ceases to be a retail electric distribution customer of PSREC, the designated rebate recipient will not be eligible to receive any unpaid incentive payments.

Installer

To be eligible for a rebate, all systems must be installed by appropriately licensed contractors in accordance with rules and regulations adopted by the State of California Contractors State Licensing Board (CSLB). Installation contractors must have an active A, B, C-10 license, or C-46 license for PV systems. Although not required, installation contractors are encouraged to become certified by the North American Board of Certified Energy Practitioners (NABCEP). PSREC also recommends that the installer be registered with findsolar.com and www.gosolarcalifornia.ca.gov/ and meet the pre-screening criteria.

In all cases, systems must be installed in conformance with the manufacturer's specifications and all applicable electrical and building codes and standards.

System Equipment

All panels and inverters must be listed on the California Energy Commission's (CEC) Eligible Equipment List and must be new and not been previously placed in service in any other location or for any other application. This list is continuously updated by the CEC. (<http://www.consumerenergycenter.org/erprebate/equipment.html>). All inverters must meet UL 1741 and IEEE 1547 interconnection standards to be approved as non-islanding (non-backfeeding) devices that automatically disconnect from the grid upon loss of utility voltage. PSREC reserves the right to reject a system that they deem is unsafe to connect to the grid.

System Size

The minimum system size requirement for the PSSP rebate is 1 kW and maximum system size is 25kW. Proposals for larger systems must request a variance. The maximum PSSP rebate is capped according to rate schedule, as shown in Table 2.

To be eligible, the system must be sized so that the amount of electricity produced by the system primarily offsets part or all of the member's annual electrical needs at the site of installation. Systems sized between 1 kW_{AC} and 5 kW_{AC}, inclusive, shall be assumed to primarily offset the customer's annual electricity needs. For systems larger than 5 kW_{AC}, the Applicant must show evidence of the system sizing with the submittal of the initial application. The maximum system capacity should be calculated as follows:

$$\text{Max Capacity (kW}_{AC}) = \text{Previous 12 months usage (kWh/yr)} / 1577 \text{ (hrs/yr)}$$

In the case of Applicants with new or expanded sites where no electric bill or where the existing electric bill does not reflect the Applicant's expected expanded consumption, the Applicant must include an engineering electrical load estimate. Suggested methods of substantiating a load estimate include an electric load calculation with corresponding equipment schedules and single-line diagram; building simulation program reports; or detailed engineering calculations.

Energy Efficiency

For residential sites, the Host Member must include the Residential Energy Efficiency Checklist along with the application. It is recommended that the Host Member implement efficiency measures prior to PV system installation. For commercial sites, the Host Member should consider contracting for an energy efficiency study prior to PV system installation. Members may be exempt if their home complies with the 2001 or 2005 CA Title 24 Energy Code, (submit a copy showing compliance with CF-1R Form, prepared by a Certified Energy Plans Examiner).

Shading Analysis

A system is considered to have "minimal shading" if no obstruction is closer than a distance of twice the height. Obstructions include any roof equipment, neighboring trees, poles, buildings, or other objects. Landscaping should be evaluated at the expected

mature height. If there are obstructions, then a shading analysis is required. Rebates are not reduced due to shading results, but PSREC strongly recommends minimizing any shading of the PV modules during mid-day hours.

Warranty

All systems must have a minimum 10-year warranty provided in combination by the manufacturer and installer to protect the purchaser against defective workmanship, system or component breakdown, or degradation in electrical output of more than fifteen percent from their originally rated electrical output during the 10-year period. The warranty must cover the PV modules (panels) and inverters, and provide for no-cost repair or replacement of the system or system components, including any associated labor during the warranty period.

Performance and Permanency

Equipment is intended to be in place for the duration of its useful life. Only permanently installed systems are eligible for incentives. This means that the PV system must demonstrate adequate assurances of both physical and contractual permanence prior to receiving an incentive.

Metering and Data Collection

A meter that is capable of net-metering must be installed by PSREC instead of the standard meter. Modifications to the service entrance must be approved by PSREC. The member will be responsible for the cost of the net-meter, provided by PSREC, and our installation/inspection costs (\$350). All service entrance and disconnects must be EUSERC approved. The installer must install a separate performance meter on the member-side of the system. Utilizing inverters that have a built-in performance meter is acceptable.

Site Inspections and System Verification

To be eligible for PSREC Solar Program incentives, all Applicants, Host Members, and System Owners must agree to provide PSREC, and/or third parties contracted by PSREC, to access the site and any available data and information collected on the system for a period up to 10 years.

PSREC will conduct a System Interconnection Inspection in order to verify that the project is installed as represented in the application, is operational, interconnected and conforms to the eligibility criteria of the PSSP and the Interconnection Agreement. PSREC reserves the right to disqualify installers from future program participation for failed inspections due to gross negligence, fraud, or uncorrected mechanical failures within 60 days.

Incentive Structure

Applications will be received and approved on a first-come, first served basis until the available funding cap for that rate class has been reached. Projects must be complete within 6 months from the application date. Unfinished projects will either have to file for

an Extension or reapply at the start of the next calendar year. If the rebate funds in any rate class have not been fully reserved by July 1st, the remaining rebates will be available to any other member type to apply for. Applicable caps based on rate class will still apply.

TABLE 1: PSSP Rebate Budgets by Rate Class

Year	TOTAL	Res	Sm. Com	Lg. Com/Ind	Irr	NonProf
2008	\$140,000	\$66,000	\$36,000	\$20,000	\$12,000	\$6,000
2009	\$140,000	\$66,000	\$36,000	\$20,000	\$12,000	\$6,000
2010	\$140,000	\$66,000	\$36,000	\$20,000	\$12,000	\$6,000
2011	\$140,000	\$66,000	\$36,000	\$20,000	\$12,000	\$6,000
2012	\$140,000	\$66,000	\$36,000	\$20,000	\$12,000	\$6,000
2013	\$140,000	\$66,000	\$36,000	\$20,000	\$12,000	\$6,000
2014	\$140,000	\$66,000	\$36,000	\$20,000	\$12,000	\$6,000
2015	\$140,000	\$66,000	\$36,000	\$20,000	\$12,000	\$6,000
2016	\$140,000	\$66,000	\$36,000	\$20,000	\$12,000	\$6,000
2017	\$140,000	\$66,000	\$36,000	\$20,000	\$12,000	\$6,000
TOTAL	\$1,400,000					

Capacity Based Incentives

The PV system rebate is paid based on the system capacity, measured in AC watts (W_{AC}). Rebate values for 2008 are \$2.80 per watt for all rate classes. The rebate will be calculated based on the CEC System Rating per this formula:

$$W_{AC} = \# \text{ modules} \times \text{CEC Rating of PV Modules (watts/module)} \times \text{CEC Inverter Efficiency Rating (\%)}$$

TABLE 2: Rebate Cap per Member by Rate Class

Year	Rebates		Cap (\$/member)			
	\$/ W_{AC}	Res	Sm. Com	Lg. Com/Ind	Irr	NonProf
2008	\$2.80	\$6,000	\$12,000	\$20,000	\$6,000	\$6,000
2009	\$2.60	\$6,000	\$12,000	\$20,000	\$6,000	\$6,000
2010	\$2.42	\$6,000	\$12,000	\$20,000	\$6,000	\$6,000
2011	\$2.25	\$6,000	\$12,000	\$20,000	\$6,000	\$6,000
2012	\$2.09	\$6,000	\$12,000	\$20,000	\$6,000	\$6,000
2013	\$1.95	\$6,000	\$12,000	\$20,000	\$6,000	\$6,000
2014	\$1.81	\$6,000	\$12,000	\$20,000	\$6,000	\$6,000
2015	\$1.68	\$6,000	\$12,000	\$20,000	\$6,000	\$6,000
2016	\$1.57	\$6,000	\$12,000	\$20,000	\$6,000	\$6,000
2017	\$1.46	\$6,000	\$12,000	\$20,000	\$6,000	\$6,000

Project Costs

No project can receive total combined incentives that exceed total eligible project costs. The Applicant must submit project cost details to report total eligible project costs and to ensure that total incentives do not exceed out-of-pocket expenses for the System Owner.

Application Process

The Applicant completes the PSSP Application, with required attachments. If the application is incomplete, PSREC will return the Application. If the application is complete, PSREC will provide a Rebate Reservation Confirmation and a Claim Form to the Applicant. PSREC will also provide the Applicant with the Net-Metering Agreement and Interconnection Agreement, which must be completed and returned with the \$350 meter fee prior to interconnection. The installation may then proceed. Once the system is complete, you must schedule a System Interconnection Inspection with PSREC so that you can energize your system. You should schedule the Building Inspection for before the Interconnection Inspection. Once the system has passed all required inspections and permits, the Applicant completes the Claim Form and submits it with attachments to PSREC. PSREC will review rebate claim and process rebate, if complete. The reservation period for all projects is 6 months from the date of Confirmation, unless an Extension is filed. All reservations terminate at the end of the calendar year. Pending projects will have to re-apply the next year and obtain a new Reservation Confirmation and with adjusted rebate rate.

Application Attachments

- Annual electric usage estimate, based on recent PSREC utility bills showing annual electric usage or an engineering estimate.
- System design and electrical one-line drawing
- Purchase order or contract for the PV system equipment and installation, with a 10 year warranty
- Shading Analysis, if not minimally shaded
- Energy Efficiency Checklist

Claim Form Attachments

- Final, approved building permit
- Final system Inspection Form
- Paid purchase order, receipt or invoice with itemized system components
- Application Change Form and revised system design, if applicable
- Interconnection Agreement
- Net Metering Agreement

Incentive Payments

Payments will be made to the Applicant as indicated on the approved Claim Form. PSREC shall process the rebates payments and send a check to the designated party. Incentives cannot be paid retroactively for systems installed in previous years.

System Changes Affecting Incentive Amount

Applicants must inform PSREC of any system design changes by submitting an Application Change Form. If the final installed system is smaller than specified in the

Application, the incentive will be reduced proportionally based on the new system size. If the revised system is larger, the incremental rebate will be calculated and the rebate amount will be revised, if funding is still available for that year.

Permits and Interconnection

A final approved building permit is required to qualify for a PSSP rebate. A copy of the signed final permit is required with the submittal of the rebate Claim Form.

When a PV system generates more electricity than the building uses in a month, the member account can “bank” kWh credits. The Net Metering Agreement, which is active for the life of the PV system, allows the member to carry kWh credits for up to a year until it is converted to a monetary credit based on wholesale value. See the Net Metering Agreement for additional details.

THE PSSP IS CONSIDERED A PILOT PROGRAM FOR 2008. PLUMAS-SIERRA RESERVES THE RIGHT TO MODIFY THE PROGRAM, AS NEEDED, TO BETTER SERVE THE INTERESTS OF OUR MEMBERS EACH YEAR.

For more information, please contact the PSSP Manager:

Jessica Nelson
Energy Services Manager
Plumas-Sierra Rural Electric Cooperative
73233 State Route 70
Portola, CA 96122-7069
(530) 832-4261 ext. 6004
jnelson@psrec.coop

SB1 Solar Program Status Report

Utility Name: PORT OF OAKLAND

Program Reporting Period:

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

1. Program Activities

a) Summary of Program Activities:

As of 3/31/2008 Port is aggressively marketing its SB 1 solar program to its tenants. Although some tenants have shown an interest in the program, no applications have been submitted at this time.

b) Future Opportunities and Challenges:

To keep the interest in the program as the rebate decreases each year.

2. Program Performance

	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
# Applicants	0	0	0
Available Funding	Total Expenditures	Incentives Awarded	Incentives Paid
\$103,000.00	0	0	0

3. Additional Information (as available)

a) Known customer application issues/applications not approved

None at this time.

b) Non PV solar systems installed

Nothing at this time.

c) Facility end use information

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

None at this time

4. Appendix

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

NA

REDDING ELECTRIC UTILITY (REU)
SB1 Solar Program Status Report – POU Report Format

Program Reporting Period:

From: January 1, 2008

To: March 31, 2008

1. Solar Program Activities

- a. Summary of Activities: (REU began collecting \$0.00125 per kWh sold October 2007 to fund SB 1 program. REU has distributed direct mail solar information in customer billing, and has promoted solar at exhibit booths during several community events.)
- b. Future Opportunities and Challenges (Perceived high cost of photovoltaic solar combined with REU’s current low rates have precluded high volume customer participation in solar construction despite aggressive marketing efforts (attached example) and rebates of \$2.80/ watt (less than optimum) \$3.55/ watt (optimum “due West.”)

2. Program Report Tables

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
14	14	27.88	10,200

Available Funding (Life of Program)	Annual Budget (through 3/31)	Total Expenditures (through 3/31)	Incentives Awarded (through 3/31)	Incentives Paid (through 3/31)
Approx \$10 million	\$228,217	\$101,889	\$79,140	\$79,140

3. Additional Information (as available)

- a. Number of Applications rejected: 0 (We have not rejected any applications to date for any reason.)
- b. Expense breakdown (78% of REU’s SB1 expenditures were paid out as EPBB incentive rebates. 22% of program related expenditures covered operational costs, training and marketing.)
- c. Incentive breakdown (Through REU’s SB1 program history 100% of its incentives have been EPBB.)
- d. Installation breakdowns (During initial reporting period of first quarter 2008, 89% of solar PV (kW) installed was residential; the remaining 11% was installed on light commercial applications).
- e. Non-PV solar installed. REU did not install any solar systems other than PV during reporting period.

4. Appendix

- a. Program Description, rules, guidelines (REU has a longstanding history of simplification; easy to understand, easy to implement solar policies, which are succinctly stated on a double-sided rebate application. (attached REU incentive application)
- b. Incentive Funding Table (See item 1.a above.)



Solar Photovoltaic Rebates and Optimal Installation Specifications

January 1, 2008



Program Goals & Objectives

- Energy Efficiency
- Indoor Air Quality
- Environmental Responsibility
- Resource Efficiency

Redding Electric Utility (REU) provides rebates in support of customers that install solar photovoltaic (PV) systems that meet REU’s engineering criteria for system interconnection. REU provides an additional incentive for PV systems that are installed in specific manner to optimize the operation of the PV system for both the customer and the utility’s benefit. The specifications for PV system requirements shall be as defined by REU, other sanctioned regulatory bodies or any Federal, State, or local legislation. REU shall retain all renewable energy credits and greenhouse gas credits associated with each watt of renewable resource generation capacity installed under this agreement.

REU Solar PV Rebate Amounts

- **\$2.80/watt for PV systems that meet REU’s specifications for interconnection to the REU electrical system and are installed with an orientation ranging from 160° (South-Southeast to 270° (due West) with the panels set with an incline of a 5° to 45° tilt .**
- **\$3.55/watt for PV systems that are installed on a dual tracking system that automatically adjusts the panel(s)’ inclination (tilt) and its orientation from east to west.**
- or-
- **\$3.55/watt for PV systems that are installed with an orientation ranging from 225° (Southwest) to 270° (due West) with the panels set with an incline of a 45° to 55° tilt.**

For rebate purposes:

The orientation of all PV systems, ranging from 160° to 270°, will be determined using and is based on “true” north - which is approximately 15° east of magnetic north when in Redding.

The wattage for all PV systems will be calculated as follows:

For each respective PV system, the PVUSA Test Condition (PTC) watt rating will be multiplied by the system inverter’s peak efficiency to obtain the wattage that REU will use to calculate the customer’s rebate.

The PTC and peak inverter efficiency rating figure can be obtained from the California Energy Commission (CEC) website www.energy.ca.gov.

The rebate amounts referenced above will be effective for 180 days from the date that time stamped technical drawings are submitted to REU. If a customer has not proceeded with the project specified in these technical drawings after 180 days of this date stamp, REU will assume the customer has abandoned said project. Thereafter, REU may ask for the application to be resubmitted at its sole discretion. Any incentive or rebate paid by REU would be based on the rebate amount that is published and applicable at the time and date of the most current application’s submittal.



Solar Energy Application

January 1, 2008



Program Goals & Objectives	
<input checked="" type="checkbox"/>	Energy Efficiency
<input checked="" type="checkbox"/>	Indoor Air Quality
<input checked="" type="checkbox"/>	Environmental Responsibility
<input checked="" type="checkbox"/>	Resource Efficiency

Name: _____ Utility Account #: _____

Address: _____ City: _____ State: _____ Zip: _____

Day Phone: _____ Installation Address (if different): _____

Building Permit Number: _____ Final Inspection Date: _____

HOW TO APPLY: THIS APPLICATION ALONE WILL NOT QUALIFY YOU FOR A REBATE. (submit proof)

1. COMPLETE ALL CUSTOMER INFORMATION REQUESTED ABOVE.
2. COMPLETE THE BOXES BELOW THAT APPLY TO YOUR REBATE ITEM.
3. SUBMIT A COPY OF YOUR INVOICE/RECEIPT OR SIGNED CONTRACT.
4. FOR STAFF ASSISTANCE WITH SOLAR PV SYSTEMS CALL 339-7249 OR E-MAIL mmadison@reupower.com.

Photovoltaic and Solar Thermal - Submittal of proposal and plans must meet all required criteria.				
<i>Manufacturer Name</i>	<i>Module Model Number</i>	<i>Description</i>	<i>CEC Rating</i>	<i># of Panels</i>
<i>Manufacturer Name</i>	<i>Inverter Model Number</i>	<i>Description</i>	<i>Weighted Efficiency</i>	<i>Optimized</i>
				<i>Yes/No</i>

Solar Attic Fan Brand:	Quantity:	Cost per Fan:
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RENEWABLE ENERGY Rebate Criteria

1. Prior written approval by REU for a Solar Photovoltaic (PV) or Solar Thermal System is required.
2. Optimal PV installation specifications are available from REU and www.reupower.com and the figure rating guidelines can be found on the California Energy Commission CEC website www.energy.ca.gov.
3. Photovoltaic systems must be connected to REU's distribution system and comply with REU's Solar and Wind Tariff to offset the customer's electric load and meet REU's interconnection requirements.
4. Panels and inverters must be on the California Energy Commission's approved equipment lists.
5. Only systems with a warranty of 10 years or greater are eligible for the program.
6. Solar Thermal systems can be active or passive and must displace the electric water heating system.
7. Solar Thermal approval will be based on certain criteria, such as building occupancy and water usage.
8. Only solar attic fans on our approved list at REU, will be eligible for the rebate.
9. REU shall retain all renewable energy credits and greenhouse gas credits associated with each watt of renewable resource generation capacity installed under this agreement.

Eligibility Requirements: You must be a current REU customer and applications must be submitted and received within six months of purchase date. If any of the above items are incomplete, your application will be returned to you for completion.

Application processing takes 8 weeks before posting as a credit on your COR utility account. Your Solar Attic Fan rebate will show as a credit on the back of the COR bill statement.

Customer Signature: _____ Date: _____

For REU use only:

Date Received:	Rebate Amount:
Authorized Signature:	Log Number:

Solar Energy Equipment Rebates

Solar PV	Solar Thermal	Solar PV Attic Fans
\$3.55/ watt (optimized install) \$2.80/watt (not optimized)	50% of cost up to \$1,000 for 1 st panel, \$500 2 nd panel & \$250 3 rd panel	50% of cost up to \$100/unit

Solar Photovoltaic Checklist:

Application Pack will include:

- Interconnect Agreement (2 copies must be signed and returned).
- Renewable Resource Net-Metering Tariff.
- Example of Generation Disconnect Nameplate Drawing.
- PV Solar REU Rebate Application.
- Optimal Installation Specifications.
- Two Signed copies of Interconnect Agreement must be returned to Solar Coordinator 339-7249 before building permit will be issued.

Customer will receive PV Generator Number when Interconnect Agreement is submitted.

Building Permit Center requires 3 copies of the following:

- Three-line electrical drawing.
- Site map.
- Building orientation.
- PV panel array location.
- Arrow indicating True North.
- String calculations.
- Inverter model name and number.
- Module cut sheets.
- REU electric meter account number.
- Permit application.

Building permit will not be issued until two signed copies of Interconnect Agreement are returned to Solar Coordinator.

PV project must pass two separate final inspections (one by Building Department/ one by REU).

Upon REU final inspection approval, PV system will be turned on, anniversary date is established on that date. PV generation is strictly prohibited until REU's final inspection approval.

Customer will receive authorization letter to operate PV generator following REU final inspection.

Rebate Process:

- Receipts indicating total cost of project.
- Completed rebate application.
- Proof of Insurance Certificate.
- General liability Insurance Company.
- (Homeowner's) Policy number.
- Rider to verify that PV system is insured.

TERMS and CONDITIONS

Funds for these incentives are limited. REU reserves the right to change and/or terminate incentives at its own discretion based on availability of supporting funds. REU also reserves the right to inspect and verify installation of any energy-efficiency improvements. Customers who reject REU's verification process may be subject to rebate denial or reversal. REU does not guarantee any equipment or energy savings. Only current REU customers qualify for a rebate.

Submit your completed application and documentation to:

Redding Electric Utility - Earth Advantage Rebates - P.O. Box 496071 - Redding, CA 96049-6071

For more information or appointment please contact REU at 339-7215

Rebate information and forms available on-line at www.reupower.com



OUR COMMITMENT

Dear REU Customer:

Since moving to the North State in 1997 to lead Redding Electric Utility (REU) through the State's attempt to deregulate the electric utility industry, I have witnessed a lot of changes in the utility business and at home in our community. Deregulation is dead; major energy marketing companies have crumbled; demand for more power is up statewide; transmission capacity and transmission rights are "golden;" and at the state and federal levels, utilities and their customers are feeling the effects of higher energy prices. Our community is not immune to rising fuel prices and increasing pressures to deliver more renewable energy. While REU's rates have risen modestly over the past two years, the fact that your energy needs are met by REU, still makes living or doing business in Redding a bargain. Just ask a friend who lives or operates a business just outside the City limits how much they pay for electricity.

REU, your community utility, has been serving Redding's power needs since 1921. A lot has changed since then, but one thing remains constant - our mission - to provide you with the safest, most reliable, environmentally-friendly, and competitively-priced power possible. You have our commitment. On behalf of REU, thank you for your business.



Sincerely,

 James C. Feider, REU Director



RELIABILITY/LOW RATES

REU remains one of the most reliable electric utilities in the State of California. In fact, the average REU customer experienced just 0.62 outages in 2006 with the average unplanned outage lasting less than 22 minutes. Compare that with the average PG&E customer who in 2006 experienced 3.44 unplanned outages¹ lasting an average of 280 minutes¹ or more than 4½ hours. In 2006, REU was five (5) times more reliable than PG&E serving our friends and family living just outside the Redding city limits.

¹ PG&E outage information source - 2006 CPUC Reliability Report

Historically, REU has maintained very high reliability ratings and will continue to build and maintain our utility distribution system so when you "flip the switch," your lights come on!

Maintaining low electricity rates for the Redding community is paramount for REU. Although REU's rates increased nominally January 1st, when compared against your neighbor's rates being served by PG&E in the County, the Redding community is very fortunate. You be the judge. Residential rate comparison:

Monthly Use	REU \$	PG&E \$	Annual Savings w/ REU
850 kWh	\$1,085/yr.	\$1,606/yr.	\$521/yr.
1,500 kWh	\$1,857/yr.	\$4,054/yr.	\$2,197/yr.

CONTACTING REU

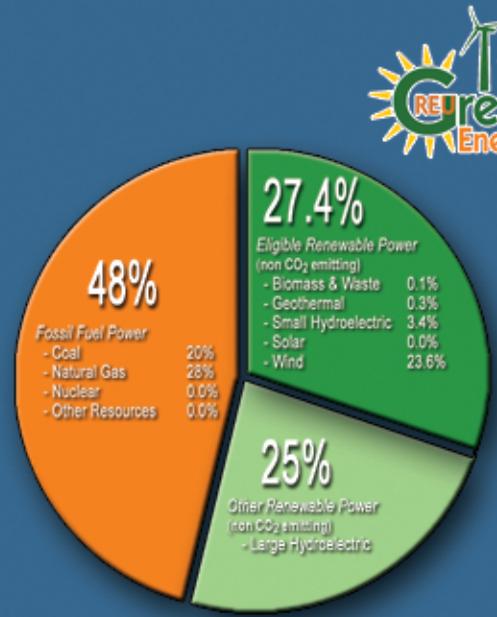
General Information	(530) 339-7300
Report Power Outages	(530) 245-7000
Utility Billing	(530) 339-7200
Rebate Hotline	(530) 339-7215
Media Relations - Patrick Keener	(530) 339-7220

777 Cypress Avenue • Redding, Ca 96001
 PO Box 496071 • Redding, Ca 96049-6071

www.reupower.com

POWER SUPPLY

In response to California Senate Bill 1078 (SB 1078), state legislation requiring California electric utilities to generate or purchase higher percentages of renewable energy resources (green energy), the Redding City Council adopted a resolution supporting an aggressive local Renewable Portfolio Standard (RPS) - 20% of REU's retail sales will be served by renewable resources (green energy) by 2017. REU already exceeds its own tough standard - today, 27.4% of REU's power comes from "eligible" renewable resources – when large hydroelectric power is factored into the mix, 52.4% of REU's power comes from renewable resources.



REU's 2007 4TH QUARTER POWER FORECAST
 (values do not add due to rounding)

SOLAR PHOTOVOLTAIC PROGRAM

Governor Schwarzenegger's Solar Initiative, also known as Million Solar Rooftops or Senate Bill 1 (SB 1), requires REU, along with all California public electric utilities, to invest millions of dollars in resources to advance solar energy over the next ten years.

REU has hired a solar coordinator to promote the development of solar energy in Redding, a steadfast commitment that appears as a line item on every REU customer's monthly utility bill.



REU Solar Photovoltaic (PV) Facts:

Redding systems installed to date:	20
Average system size:	2.5 kilowatts (kW)*
REU rebates:	up to \$3.55 / watt
Average Redding installation cost:	\$18,500

* 2.5 kW solar system provides about half the average home's energy demand when running air conditioning on a hot summer afternoon.

Matt Madison, REU Solar Program Coordinator
 (530) 339-7249 • mmadison@reupower.com

SB1 Solar Program Status Report

Utility Name: City of Roseville, Roseville Electric

Service Territory: City of Roseville, approximately 31 square miles

Total Meters: approximately 55,000

Residential Meters: approximately 49,000

Business Meters: approximately 6,000

Program Reporting Period:

From Program Inception: January 1, 2007

Through: March 31, 2008

1. Program Activities

a) Summary of Program Activities:

Residential Retrofit:

Roseville Electric’s residential retrofit program began in the year 2000. It has consistently performed to satisfaction, generally utilizing all funds allocated within the utility’s fiscal year. These systems are generally purchased by home owners with a personal belief in PV and a conviction that they must attempt to make a personal contribution. See details in chart below.

Residential New Construction:

Roseville Electric has seen historical success with PV on residential new construction. Prior to 2007, Roseville had worked with Premier Homes and Centex Homes. In 2001, the Centex Homes project resulted in 30 homes out of 250 homes built. In 2003, Premier Homes completed a development of 49 homes, all of which had PV and exceeded Title 24 energy efficiency standards.

Roseville Electric’s most successful residential project to date has been our BEST Homes Program. Roseville developed and implemented the BEST Homes residential new construction program in 2007. BEST Homes was designed with the specific intent of meeting the, then in development, SB1 requirements. BEST Homes Program goals were approved by the Roseville City Council in March 2007. The BEST Homes Program established that 10% to 20% of all new production homes to be built in Roseville in the next 10 years have integrated root top PV and meet high energy efficiency standards that result in improved cooling efficiencies that exceed Title 24 by 20%.

BEST Homes has achieved some critical success milestones:

- Resulted in the largest new residential PV community in the state – at 650 homes.
- Within two years, BEST Homes has amassed 1342 reservations – approximately 107% of the planned program to date.
- Created, to the best of our knowledge, the first program in California that gave participating builders a priority with expedited service in a City building department for PV homes.
- In a down economy, the BEST Homes program continues to act as a major reason why new homes are selling in Roseville.
- Winner 2007 SEPA award for Solar Business Achievement

Business Retrofit:

PV retrofits for established businesses continues to be rare. The benefit to cost ratio is not substantial enough to translate to success. Within this period, Roseville Electric received two applications for business retrofit PV. One application was from the City of Roseville for PV at the Civic Center building. Roseville Electric's rebate was supported with City of Roseville "Building Fund" dollars that had been earmarked for advanced technology. The second application was submitted from a "not for profit" with grants funds.

Business New Construction:

Despite program fund availability and rebates that are some of the highest in the state, there were no PV applications for business new construction. See below: "Future Opportunities and Challenges"

Public Outreach:

Roseville Electric promotes PV in a wide variety of public outreach programs:

- Newsletters:
 - Roseville Electric promotes PV via published newsletters published multiple times throughout the year for our residential/small business and for our large business/industrial accounts.
- Technical Bulletin Outreach:
 - Roseville Electric's on line *Questline* technical bulletin will provide timely monthly articles on PV to our large business customers.
- Utility Web Site:
 - Program Pages
 - On Line Technical Assistance
- Special Promotional Events:
 - Downtown Tuesday Night: Roseville Electric presents PV and PV programs at a series of City sponsored street fairs in June of each year
 - Earthday 2008: a major regional Earthday calibration located in Roseville – utility booth and staff promoting PV as part of our program mix.
 - New Home Builder – Open House: as a benefit provided by the BEST Homes program, Roseville Electric staff helped staff builder's model homes on the "grand opening day" to discuss PV with potential buyers
 - 2008 Solar Tour: Roseville participated in the 2007 National Solar Day as a host - providing homes and businesses for visitors to see as part of this tour
- Roseville Utility Exploration Center (RUEC): opened in January of 2008 the RUEC is a science and education center developed, owned and operated by the City of Roseville and Roseville Electric. The RUEC is open six days a week and provides hands on education in the form of exhibits. Additionally, tours and educational programming in support of grade specific curriculum are offered to elementary school students. PV is an important part of the RUEC message.
- Account Representative and Staff Outreach: Roseville Electric provides individualized account representation to all electric customers greater than 200kW in peak demand. PV area actively discussed with our account base.

b) Future Opportunities and Challenges:

Opportunities:

- Roseville’s residential BEST Homes new construction PV/high energy efficiency program continues to be a significant factor in new homes sales in Roseville. Home sales have slowed, but unlike other region areas, homes continue to sell.
- Roseville views our City Council approved BEST Homes goal of 20% of all new homes in the next ten years with PV and better than Title 24 energy efficiency as achievable.
- Roseville Electric continues to see excellent cooperation between Roseville Electric and the City of Roseville Building Department with residential new homes construction permits and approval processing. BEST Homes projects receive “priority treatment”, are marked with red folders, and move to the top of the processing stack. This has provided a benefit in time savings to the building that has been characterized by the builders as “as important as the rebate”.

Challenges:

- Business solar installations, both retrofit and new construction, continue to be problematic in Roseville. Roseville Electric’s low business electric rates do not provide an acceptable benefit to cost ratio for our business customers. Large national chains constructing PV as part of a corporate commitment, such as Wal-Mart, skip over Roseville and construct PV elsewhere. Even third party PPA arrangements have not proved feasible within Roseville’s low rates.
- Most large business new construction continues to be built as “spec properties”. This translates into fewer builders willing to consider PV as an option.

2. Program Performance: January 2007 Through March 31, 2008

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
1354	235	473.7	761,279
Available Funding ¹	Total Expenditures ²	Incentives Awarded	Incentives Paid
Budgets are approved annually.	\$2,014,605	\$2,118,116	\$2,013,524

- **Incentives Awarded:** All PV incentive applications accepted within date range (BEST Homes and all). Indicates a backlog of projects/applications waiting for installation when compared to Incentives Paid.
- **Incentives Paid:** PV incentives actually paid to installed operational systems.
- **Total Expenditures:** All PV program costs: incentives, administrative and marketing.

3. Additional Information (as available)

- Known customer application issues/applications not approved:
 - None
- Non PV solar systems installed:
 - None

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.

- c) Facility end use information: See Appendix One Chart below for January 1, 2007 through March 31, 2008
 - 235 installations: single family residential
 - 1 installation: on City of Roseville Civic Center - end use is office space.
- d) Incentive and funding disaggregation (e.g., by incentive type, by end use, etc.):
 - Roseville’s incentives have been paid based on system capacity determined by the CEC PTC rating.

4. Appendices

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

Appendix 1 – Actual Installations

Jan 1, 2007 – March 31, 2008

PV Activity Jan 2007 to March 2008	Number	AC		Rebate
		Demand	kWh/yr	
Residential Retrofit	10	26.3	42,041	\$104,478
Residential New Construction	224	433.5	696,826	\$1,734,046
City Facilities	1	14.0	22,413	\$175,000
Business	0	0.0	0	\$0
Totals =	235	473.7	761,279	\$2,013,524

Appendix 2

Program requirements:

- Equipment installed must be new and from the CEC approved list.
- The company installing the system must be from the CEC approved list.
- Customer must sign an interconnection agreement.
- The installation must be facing south between 90 degrees due east and 270 degrees due west unless the tilt is less than 5 degrees.
- BEST Homes:
 - Minimum 20% cooling savings better than California Title 24
 - A/C Unit = 15 SEER/12 EER with a thermal expansion valve
 - Electronically Commutated Motor (ECM) – variable speed fan on furnace
 - Minimum R38 Attic Insulation
 - Tested Tight Ducts – maximum 6%
 - Energy Star Appliances
 - Energy & Water Efficient Water Heater (0.62 AFUE and Hot Water to end source in 10 seconds)
 - Participate in Shade Tree Program
 - CEC approved solar electric generation system (rebate up to 2.5 kW system)

Appendix 3

Incentives: Roseville Electric’s PV program was SB1 compliant as of January 2008.

SB1 Solar Program Status Report – NCPA Members

- Residential new construction - \$3.25 per ac-watt
- Residential retrofit - \$4.00 per ac-watt
- Business - \$3.00 per ac-watt

SB1: Roseville Electric is preparing program changes that will meet the January 2009 SB1 standards

SB1 Solar Program Status Report

Utility Name: Silicon Valley Power/City of Santa Clara

Program Reporting Period:

From Program Inception: July 1, 2007
 Through: March 31, 2008

1. Program Activities

a) Summary of Program Activities:

The SVP Solar Rebate Program is currently still in the first step of funding for both Residential and Commercial customers. From July 1, 2007 –March 31 2008, ten rebate applications have been submitted for Residential PV systems and three applications for Commercial PV systems. As of March 31, 2008, four of the residential PV systems were completed and rebates were paid. The remaining residential projects and the Commercial projects are all in the process of being completed and rebates are expected to be paid over the next few months.

In November of 2007, Santa Clara City Council voted to allow the Public Benefits Program to refund the cost of residential PV permit fees. Residents now effectively have a zero permit fee for installing solar electric systems in Santa Clara.

b) Future Opportunities and Challenges:

PV systems are being installed at a higher rate than in past years but SVP’s low electric rates, 40% + lower than neighboring PG&E, continues to make Santa Clara a difficult sell for solar to both residential and commercial customers. The uncertainty of the Federal ITC renewal has caused inquiries regarding Commercial PV systems to slow considerably.

SVP is a POU with a peak load larger than 200 MW and therefore, per CEC guidelines, SVP is required to implement several changes in customer requirements, rebate structure, and customer eligibility for PV systems installed after January 1, 2009. SVP expects that some of these required changes will increase program administration and implementation costs for customers.

2. Program Performance

	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
# Applicants	5	12.2	20,132 (annual)
13			
Available Funding¹	Total Expenditures²	Incentives Awarded	Incentives Paid
\$31,500,000	\$130,400	\$710,587.97	\$55,404.79

3. Additional Information (as available)

a) Known customer application issues/applications not approved

None-all received applications were approved

b) Non PV solar systems installed

None

c) Facility end use information

¹ Total solar program funding available for the life of the program as approved by the local governing board. This figure represents rebate dollars available. Program marketing and administrative costs are not included in this figure

² Includes all program expenditures, including administration and marketing.

d) Incentive and funding disaggregation (e.g., by incentive type, by end use, etc.)
 See funding breakdown by customer class in Appendix

4. Appendix

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

Silicon Valley Power Solar Electric Rebate Program

Silicon Valley Power, the City of Santa Clara’s municipal electric utility, is offering incentives to make installing and generating electricity from PV systems more affordable. These incentives are in the form of cash rebates to Santa Clara residents and businesses for new installations of photovoltaic (PV) systems.

Residents are eligible for a rebate starting at **\$4.50 per watt AC** up to a maximum system size of 10 kilowatts (kW) AC. Businesses are eligible for a rebate starting at **\$3.00 per watt AC** up to a maximum system size of 100 kilowatts (kW). For systems larger than 100 kW (but less than 1 MW), a Performance Based Incentive (PBI) is available starting at **\$0.40 / kWh**. Rebate amounts will be reduced as SVP reaches installation targets.

All Customers are required to have an energy audit prior to installation of a PV system to identify all energy saving potential measures. SVP provides free energy audits for both Commercial and Residential customers.

The total installed PV goal is 30 MW by 2017, which is 1% of the SB1 CSI goal of 3000 MW. Funding and installation targets are based on approximate percentage of energy sales (90% C&I, 10% Residential).

Residential Rebate Schedule for Systems ≤ 10 kW

Residential Installed Capacity	Rebate \$/Watt
200 kW	\$4.50
400kW	\$3.75
600 kW	\$3.00
800 kW	\$2.50
1.0 MW	\$2.00
1.2 MW	\$1.75
1.5 MW	\$1.50
2.0 MW	\$1.25
2.5 MW	\$1.00
3.0 MW	\$0.75

*Current Rebate Level

Commercial Rebate Schedule for Systems ≤ 100kW

Commercial Installed Capacity	Rebate \$/Watt
2 MW	\$3.00
4 MW	\$2.25
6 MW	\$1.50
8 MW	\$1.30
10 MW	\$1.10
12 MW	\$0.90
15 MW	\$0.65
18 MW	\$0.45
22 MW	\$0.35
27 MW	\$0.25

*Current Rebate Level

Commercial Rebate Schedule for Systems > 100kW

Commercial Installed Capacity	Rebate \$/kWh
2 MW	\$0.40
4 MW	\$0.36
6 MW	\$0.33
8 MW	\$0.31
10 MW	\$0.29
12 MW	\$0.27
15 MW	\$0.25
18 MW	\$0.23
22 MW	\$0.21
27 MW	\$0.20

*Current Rebate Level

SB1 Solar Program Status Report

Utility Name: Truckee Donner Public Utility District

Program Reporting Period:

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

1. Program Activities

a) Summary of Program Activities:

As of 3/31/2008 ten applications have been submitted; due to weather conditions there are no installations at this time.

b) Future Opportunities and Challenges:

To keep the interest in the program as the rebate decreases each year.

2. Program Performance

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
10	0	0	0

Available Funding ¹	Total Expenditures ²	Incentives Awarded	Incentives Paid
\$1,773,408.00	0	\$174,689.00	0

3. Additional Information (as available)

a) Known customer application issues/applications not approved

None at this time.

b) Non PV solar systems installed

Nothing at this time.

c) Facility end use information

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

Three commercial applications (68.6 kW) and seven residential applications (20.3 kW).

4. Appendix

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

1. Truckee Donner PUD PV Buy Down Program Customer Information Packet

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.



Truckee Donner PUD PHOTOVOLTAIC BUY DOWN PROGRAM CUSTOMER INFORMATION

This packet contains information describing the Truckee Donner PUD's Photovoltaic Buy Down Program. If you are interested in installing a solar photovoltaic in Truckee Donner PUD service territory and receiving the Buy Down incentive, please read the attached information to understand Truckee Donner PUD's program.

If you proceed with a photovoltaic installation, you must meet a variety of criteria and standards.

Customer:

1. Pick up Customer Information Packet from Truckee Donner PUD

a. Information Packet Includes

- i. Customer Information Sheet
- ii. PV Buy Down Program Guidelines
- iii. PV Buy Down Application & Sun Charts
- iv. Photovoltaic Metering Rate Schedule
- v. Two copies of the Photovoltaic Interconnection Agreement for Energy Metering from Solar Electric Generating Facilities for Electric Utility Service
- vi. IRS FORM W9 "Request for Taxpayer Identification Number and Certification". (You will receive a FORM 1099 in January of the year following your rebate if it exceeds \$600.00. Consult your tax advisor concerning the taxability of rebates).

2. Submit an Application for the PV Buy Down Program to Truckee Donner PUD *prior* to installation of your system. (You must wait for approval from TDPUD before beginning installation if you wish to assure receipt of the incentive.)

3. Complete all the requirements for your local government (City or County)'s building and electrical permit for PV installation.

4. Upon completion of installation and City/County inspections, request a PV Buydown inspection from TDPUD.

5. Following installation and final inspections (both Truckee Donner PUD and your local City/County) of work, submit two (2) original, signed copies of the Photovoltaic Interconnection Agreement, a copy of the purchase and installation receipts of the system, and a copy of the warranty on the system.

TDPUD will:

1. Verify and approve PV Buy Down Application
2. Ensure adequate funds to rebate customer.
3. Perform the TDPUD PV inspection (*after* the City/County Code inspection)
4. Establish a customer-generator electric utility account pursuant to the Photovoltaic Interconnection Agreement.
5. Have meter placed for new PV system.
6. Mail one of the original Photovoltaic Interconnection Agreements to the Customer.
7. Submit approved PV Buy Down Application for signature and write a check to customer.

Photovoltaic Program questions may be directed to Kathy Neus at 530-582-3922.

Truckee Donner PUD PV BUY DOWN PROGRAM Photovoltaic Systems



Our new Photovoltaic (PV) Buy Down Program is available to help offset your investment in a PV system and get you on the road to making use of renewable energy. Truckee Donner PUD provides rebates to its customers to reduce the initial system cost.

All California utilities are required to collect Public Benefits Funds from their customers. These funds are to be used by the utilities to develop and implement public purpose programs such as photovoltaics. Truckee Donner PUD is committed to promoting and supporting renewable technologies and is offering its customers rebates to reduce the purchase and installation costs for PV systems and a net metering credit for producing solar electricity.

The Truckee Donner PUD's PV Program uses its customer funds to provide these solar incentives. To obtain the best value for our customers, the Truckee Donner PUD PV Program is designed to encourage the installation of PV Systems that produce the maximum amount of energy possible, so our Program incentive is calculated based on an Estimated Performance Calculation.

ELECTRICITY FROM THE SUN

Photovoltaic is the direct conversion of light into electricity. Certain materials, like silicon, naturally release electrons when they are exposed to light, and these electrons can then be harnessed to produce an electric current. Several thin wafers of silicon are wired together and enclosed in a rugged protective casing or panel. PV panels produce direct current (DC) electricity, which must be converted to alternating current (AC) electricity to run standard household appliances. An inverter connected to the PV panels is used to convert the DC electricity into AC electricity.

The amount of electricity produced is measured in watts (W). A kilowatt (kW) is equal to 1,000 watts. A Megawatt (MW) is equal to 1,000,000 Watts or 1,000 kilowatts. The amount of electricity used over a given period of time is measured in kilowatt-hours (KWh).

HOW DOES THE BUY DOWN PROGRAM WORK?

The amount of the rebate is based on the Estimated Performance (kilowatt-hour production) of the system, and converted to the effective annual AC generating capacity of the PV system measured in AC watts. The rebate amount for 2008 is \$5.00 per AC watt for systems up to a maximum size of 3 kilowatts (residential) and 5 kilowatts (commercial). Currently, the total amount available for rebates the first year is approximately \$177,300 for all installations. Rebates are available on a first come, first served basis and are limited to \$15,000/ residence and \$25,000/ commercial installation. Customers may apply for multiple incentives over the 10-year lifetime of the program.

Truckee Donner PUD electric customers that abide by the PV program terms and conditions, install a qualifying PV system and enter into an Interconnection Agreement with Truckee Donner PUD Utilities are eligible for a Buy Down incentive.

Truckee Donner PUD Utilities PV Buy Down Program

Customer Participant Qualifications

To qualify for the rebate you must:

1. Be a customer receiving electricity distributed by Truckee Donner PUD Utilities.
2. Obtain and submit the required building and electric permits to install the PV system from the appropriate County or City Building Department.
3. Complete and submit a signed application for the Truckee Donner PUD PV Buy Down Program to reserve a rebate for installation of a PV system. An application is available from the Truckee Donner PUD.
4. Complete and sign two copies of the Interconnection Agreement with Truckee Donner PUD. The Interconnection Agreement spells out the terms and conditions of your responsibilities as a power producer and delineates the terms of Truckee Donner PUD net metering rate. A copy of the Interconnection Agreement is available from the Truckee Donner PUD.
5. Install the PV system that is compliant with the terms and conditions of the Truckee Donner PUD PV Buy Down Program. A minimum 10-year full-system warranty against defective parts, workmanship, or unusual degradation of the system output from the PV retailer or installer is required.
6. Request a PV Buy Down Program inspection from Truckee Donner PUD after the installation has been completed and **after** the system has successfully passed the City/County Building/Electrical Inspection.
7. Submit the following documents to Truckee Donner PUD: 1) two signed originals of the Interconnection Agreement, 2) a copy of the receipt for the PV system, and 3) a copy of the PV system 10 year warranty. Customer should make and keep on file a copy of the Interconnection Agreement.
8. After the required documents have been submitted to Truckee Donner PUD and have been approved by Truckee Donner PUD to receive the incentive, you will receive your rebate check within thirty (30) days.

Program and System Requirements

Eligible generating systems must meet all of the following requirements:

1. Certified Components or Systems

All flat plate photovoltaic modules must be certified by a nationally recognized testing laboratory as meeting the requirements of the Underwriters Laboratory Standard 1703, and must appear on the latest California Energy Commission certified photovoltaic modules list available at the following website:

- http://www.consumerenergycenter.org/cgi-bin/eligible_pvmodules.cgi

All inverters must be certified as meeting the requirements of UL 1741 and appear on the latest California Energy Commission certified inverters list available at the following website:

- http://www.consumerenergycenter.org/cgi-bin/eligible_inverters.cgi

2. Qualified and Registered Contractors and Meet all Installation Codes and Standards

Photovoltaic systems must be installed by appropriately licensed California contractors in accordance with rules and regulations adopted by the State of California Contractors' State Licensing Board and must in all cases be installed in conformance with the manufacturer's specifications and with all applicable electrical and other codes and standards. Contractors must possess, or employ subcontractors who possess, an A, B, C-10 or C-46 license.

In addition to the State requirements, contractors wishing to install systems qualifying for the TDPUD Buy Down incentive must also submit an application (application available from TDPUD) listing appropriate licenses, years of experience, PV training, and liability insurance level.

3. Grid Connected

Eligible systems in the PV Buy Down program must be grid-connected. This means simply that the system must be electrically connected (on the customer's premises) to Truckee Donner PUD electrical grid serving the customers electrical load. The interconnection must comply with all applicable electrical codes and interconnection requirements. The system offsets the customer's energy use either directly, by supplying electrical energy otherwise supplied by local utility electrical grid, or indirectly, by supplying electrical energy to the local utility electrical grid which is then available for use by the customer or others.

4. 10 year Full Warranties

All retailers of generating systems that receive a PV Buy Down payment under this program must provide a minimum **ten-year** warranty to the purchaser against breakdown or degradation of output. The warranty must cover all of the components of the generating system that are eligible for the PV Buy Down against breakdown or degradation in electrical output of more than ten percent from their originally rated electrical output. The warranty shall cover the full cost of repair or replacement or defective components or systems. Where the retailer is also the installer or professionally contracts for the installation the warranty must also cover labor costs to remove and reinstall defective components or systems. You will need to provide Truckee Donner PUD with a copy of the full 10-year warrantee (s) in order to process the PV Buy Down incentive.

5. Interconnection Agreement with TDPUD

In order to receive a PV Buy Down incentive the customer must agree to the terms of, and enter into, an Interconnection Agreement with Truckee Donner PUD.

6. Purchaser/Retailer/Installer Information Provided

Provide all information on the Purchaser, Retailer and/or Installer as requested. For Purchaser, the Federal Tax ID Number is your Social Security Number. Your Federal Tax Identification number is required if you are going to receive the rebate.

7. Generating System Component Ratings and EPBB Rebate Basis

Information on the generating system (modules and inverter) should be provided by the retailer or installer. The **PTC Module Power Rating** refers to the "PVUSA Test Conditions" watt-rating used by the State of California. This rating for each brand/model of module can be found at:

http://www.consumerenergycenter.org/cgi-bin/eligible_pvmodules.cgi

Total Array Output is the number of the PV modules multiplied by the PTC power rating of each module. **Peak Inverter Efficiency** refers to the level of the efficacy of the inverter to convert from direct to alternating current (DC to AC). Inverter peak efficiency levels are provided by inverter manufacturers and can also be found on the California Energy Commission website at:

http://www.consumerenergycenter.org/cgi-bin/eligible_inverters.cgi

The **Estimated Performance Based Capacity** is the **Total Array Output** multiplied by the **Peak Inverter Efficiency** (e.g., 94%) multiplied by a **Design Factor**. The Design Factor is the multiple of the **orientation factor**, and **shading factor** for the PV system in our utility service area. The **Orientation Factor** for any tilt oriented *within 45 degrees of true south* is 1.0; for systems oriented from 45 degrees to 90 degrees from true south, the **Orientation Factor** is 0.9. To derive the **Shading factor**, use the Sun Charts for our area to determine percent of annual shading. The installer may also use the on-line EPBB calculator, if available, or other approved software.

Orientation (Compass Direction)	Tilt	Orientation Factor
Horizontal	0	1.0
135° to 225° Azimuth	Any	1.0
90-135° and 225-270°	Any	0.9
North of East-West	--	0.0 (no incentive)

Percent Annual Shading (derived from Sun Chart)	Shading Factor
0% to 15%	1.0
15% to 25%	0.9
25% to 35%	0.75
>35%	0.0 (no incentive)

The Design Factor is the Orientation Factor x Shading Factor.

8. Rebate Calculation

The **Rebate** is equal to the **Estimated Performance** multiplied by \$5.00/ watt AC

$$\text{Rebate} = \text{Total Array Output} \times \text{Peak Inverter Efficiency} \times \text{Design Factor} \times \$5.00$$

Note: The rebate per system is limited to \$15,000 (3 kW) for residential customers and \$25,000 (5 kW) for commercial customers. Customers may apply for multiple systems over the 10-year life of the program.

9. Rebate Designee

Unless otherwise specified, Truckee Donner PUD will default and send the rebate to the customer. Keep a copy of your signed and completed PV Buy Down Program Application and Interconnection Agreement for your records.

Truckee Donner PUD Utilities PV Buy Down Program

Application Instructions

Purchaser Information

Provide the name and daytime phone number of the Purchaser of the system. Provide the street address where the system is to be installed and the Utility Account Number for that location. If the Purchaser will be receiving the rebate, a Federal Tax ID number is required.

Seller Information

Provide the name, address, business phone number, and Business Resale Number of the Retailer (seller) of the system. If the Retailer is also the Installer, provide the California license class (A, B, C-10, C-46) and license number.

Installer Information

Provide the Installer's name, if different from the Retailer and the California license class (A, B, C-10, C-46) and license number of the Installing Contractor.

Generating System

Enter the PV manufacturer's name, the PV module model number, and the PVUSA Test Condition (PTC) rating of the modules. The PTC rating is obtainable from the Web site listed below for each module.

Only photovoltaic modules that have been certified by a nationally recognized testing laboratory as meeting the requirements of the Underwriters Laboratory Standard 1703 are eligible for the Rebate Program. A list of certified modules can be obtained from the California Energy Commission (CEC) via their website at:

http://www.consumerenergycenter.org/cgi-bin/eligible_pvmodules.cgi

- Enter the total Array Output (watts AC), which equals the number of modules multiplied by the PTC module power rating.

- Enter the manufacturer, model, and peak inverter efficiency of the inverter in your system. Inverters must be certified as meeting the requirements of UL 1741 by a nationally recognized testing laboratory. A list of certified inverters can be obtained from the CEC's website at:

http://www.consumerenergycenter.org/cgi-bin/eligible_inverters.cgi

System Rated Output

- Multiply the Total Array Output ($\text{Watts}_{\text{DC-PTC}}$) by the Peak Inverter Efficiency to determine the System Rated Output (Watts_{AC}) and enter the output in the box provided. Enter information pertaining to meters used for measurement of kilowatt-hour production of the PV system.

Estimated Performance Based Capacity Calculation

- Enter the Orientation and Shading amounts, and using the table, derive the Orientation and Shading Factors. Multiply these Factors to yield the Design Factor. Multiply the Total Array Output x the Design Factor to yield the Estimated Performance Based Capacity Calculation.

Rebate

- Multiply the Estimated Performance Based Capacity (watts AC) by \$5.00 per watt and enter it on the form.

Receiver of Rebate

- Designate whether the rebate payment is to go to the Retailer or to the Purchaser.

Sign and Submit

- Review the Terms and Conditions, and Tax Liability
- The Purchaser must sign and date the completed PV Buy Down Program Application. Purchaser must attach to the application a copy of either 1) a PV System Proposal, or 2) a Letter of Intent to purchase a PV system.
- Submit application and attachments to:

Truckee Donner PUD PV Buy Down Program
Attn: Kathy Neus
11570 Donner Pass Road
P.O Box 309
Truckee, CA 96160

Approval from Truckee Donner PUD Utilities

- Upon receipt and approval of your application, Truckee Donner PUD will send you a PV Buy Down Program Reservation Confirmation letter to inform you that rebate funds are available and have been allocated for your project.



TRUCKEE DONNER PUD PV BUY DOWN PROGRAM APPLICATION

This application must be completed and submitted to Truckee Donner PUD in order to reserve a rebate for installation of a solar photovoltaic (PV) system under Truckee Donner PUD's Program.

1. Purchaser Information:

Name: _____		
Installation Address: _____		Zip Code: 9 _____
Phone #: _____	Email: _____	Utility Account #: _____

2. Seller Information:

Company: _____		Address: _____	
Phone #: _____	Fax #: _____	Email: _____	

3. Installer Information: Purchaser Same as Seller or as shown below:

Name: _____			
Phone #: _____	Fax #: _____	Email: _____	
Contractor Class: _____	License #: _____	Expires: _____	Installer will provide full ten-year warranty? No Yes

4. Generating System:

Photovoltaic Module Manufacturer			Module Model #: _____
Quantity: _____	PTC Power Rating per Module: Watts _{PTC} _____	Total Module Output: Watts (Quantity x PTC Power Rating)	
Inverter Manufacturer			Inverter Model #: _____
Inverter CEC Efficiency: % _____	Quantity: _____	Inverter includes eligible performance meter? No Yes	
Performance Meter Manufacturer:			Performance Meter Model #: _____

Will PV system be installed on roof? No Yes – Age of roof in years: _____

5. System Rated Output:

System Rated Output: Watts _{AC} (Total module output watts x inverter efficiency) _____	
Estimated Energy Production: kWh/year _____	Methodology Used: _____

6. Estimated Performance Based Capacity Calculation:

Orientation (Azimuth in degrees) _____	Orientation Factor (from table) _____
Shading Percentage _____	Shading Factor (from table): _____
*Design Factor = Orientation Factor _____ x Shading Factor _____ = _____	
System Rated Output x Design Factor* = _____ Watts x _____ = _____ Watts _{AC} Expected Performance Based Capacity	

7. Rebate: Pay rebate to: Purchaser Seller

Residential Rebate = \$ _____ (\$5.00 /watt _{AC} x Estimated Performance Based Capacity, up to \$15,000)	Non-Profit Rebate= \$ _____ (\$5.00/watt _{AC} x Estimated Performance Based Capacity, up to \$25,000)	Commercial Rebate= \$ _____ (\$5.00/watt x Estimated Performance Based Capacity up to \$25,000)
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Each of the Undersigned declares under penalty of perjury that:

1) the information provided in this form is true and correct to the best of my knowledge, 2) the above described generating system is intended primarily to offset part or all of the purchaser's electrical needs at the site of installation, 3) the site of installation is located within the service territory of Truckee Donner PUD, and 4) the purchaser's intent is to operate the system at the listed site of installation for its useful life.

Purchaser Name _____ Signature _____ Date _____
 Seller Name _____ Signature _____ Date _____

Attachments: Please attach a copy of the utility bill, a purchase order for the equipment and installation of your generating system showing the itemized cost of the major equipment and labor, and a Shading Sun Chart.

HOW TO COMPLETE THE PROGRAM APPLICATION

1. Purchaser Information:

Provide contact information of purchaser of the system. Provide the street address where the system will be installed, and Truckee Donner PUD account number.

2. Seller Information:

Provide the contact information of seller of the generating equipment.

3. Installer Information: Provide the installer's name, if different from the seller, and the California license class (C-10, electrical or C-46, solar) and license number of the installing contractor. Owner-installed systems are not eligible for participation.

4. Generating System: PV Modules: Enter the manufacturer's name, model number and quantity of photovoltaic modules that your system will contain. Only modules that have been certified by a nationally recognized testing laboratory as meeting the requirements of the Underwriters Laboratory (UL) Standard 1703 are eligible. Enter the "PTC" (not STC) rating of the modules. The California Energy Commission (CEC) maintains a list of certified modules and their PTC ratings on their website at: www.consumerenergycenter.org/cgi-bin/eligible_pvm_modules.cgi. Multiply the module quantity by the module PTC watts to get Total Module Output in watts _{PTC}.

Inverters: Enter the manufacturer's name, model and inverter efficiency (at three-quarter's load) of the inverter in your system. Inverters must have a minimum warranty of ten years, and be certified as meeting the requirements of UL 1741. A list of certified inverters can be obtained from the CEC website at: www.consumerenergycenter.org/cgi-bin/eligible_inverters.cgi

Performance Meters: Meters must retain the kilowatt-hour production data in the event of a power outage and must be easy to read for the purchaser's benefit. The meter must measure the total energy produced by the system in kilowatt-hours and have a manufacturer's uncertainty specification of plus or minus five percent.

Roof PV Installations: PV modules have a warranty of 25 years. It is highly recommended to install PV over a new roof. Reinstalling PV modules after re-roofing can cost a few thousand dollars.

5. System Rated Output: Multiply the Total Module Output by the Inverter Efficiency. Please enter the entire system size even if your rebate will be capped. Enter the estimated energy production and indicate the calculation methodology used to determine the estimated energy production value in kilowatt-hours, for example, the Clean Power Estimator or PV Installer's Guide. Clean Power Estimator can be found at www.consumerenergycenter.org/renewables/estimator/index.html PV Installer's Guide can be downloaded at www.energy.ca.gov/reports/2001-09-04_500-01-020.PDF

6. Estimated Performance Based Capacity Calculation:

Multiply the System Rated Output by the Design Factor, which is the multiple of the Orientation Factor and Shading Factor. Use the following Table:

Orientation of PV Array (Compass Direction, 180°= true south)	Tilt	Orientation Factor
Horizontal	0	1.0
135° to 225° Azimuth	Any	1.0
90-135° and 225-270°	Any	0.9
North of East-West	--	0.0 (no incentive)

Percent Annual Shading (derived from Sun Chart)	Shading Factor
0% to 15%	1.0
15% to 25%	0.9
25% to 35%	0.75
>35%	0.0 (no incentive)

This yields the Estimated Performance Based Capacity, which is the basis for the rebate calculation.

7. Rebate: Residential: Multiply the Estimated Performance Based Capacity watts by \$5.00/watt _{AC}. If your system exceeds 3 kilowatts _{AC}, enter \$15,000. Non-Profit: Multiply the Estimated Performance Based Capacity watts by \$5.00/watt _{AC}. If your system exceeds 5,000 watts _{AC}, enter \$25,000. Commercial: Multiply the Estimated Performance Based Capacity watts by \$5.00/ watt _{AC}. If your system exceeds 5,000 watts, enter \$25,000.

REBATE APPLICATION SUBMITTAL

Please mail or bring your rebate Application to:

Truckee Donner PUD PV Buy Down Program
Attn: Kathy Neus
11570 Donner Pass Road
P.O Box 309
Truckee, CA 96160

Upon receipt and approval of your application, Truckee Donner PUD will send you a Reservation Confirmation and Claim Form. You have 6 months to install your system. After receiving your final building permit, please submit the Rebate Claim Form to receive your rebate.



Instructions for: Truckee Donner PUD Simplified Sun Chart Evaluation Form (Manual method)

The Truckee Donner PUD has produced sun path charts that contain estimates of the percentage of annual PV system energy production for various times of year and for specific hours during the day. The sun path chart is a plot of the path of the sun across the sky using the sun's elevation in the sky for one axis and the azimuthal position of the sun as the other.

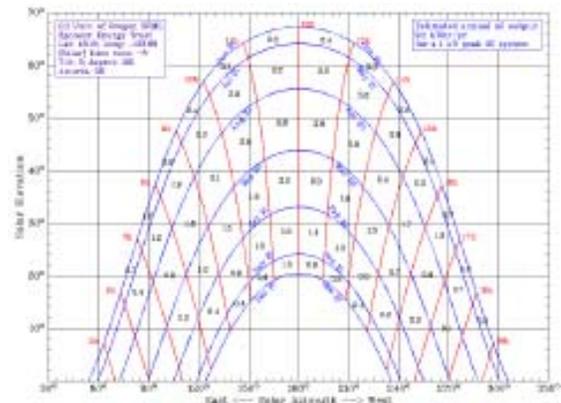
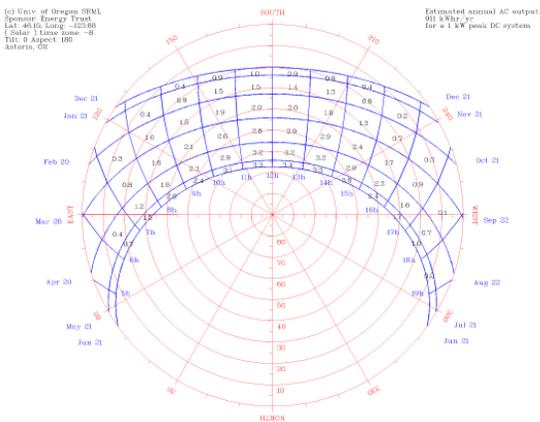
These sun path charts were created estimating PV system energy production on a tilted, south-facing surface.

Two forms of sun chart are provided: Polar Coordinates (for easy transfer of information from Solar Pathfinder or similar field instrument), and Cartesian Coordinates (Standard "sun chart" for easy transfer Solar Site Selector, camera/horizon methods, or compass/inclinometer method).

Choosing the correct form, determining shading, and determining annual energy production

The following steps show how to use the Truckee Donner PUD Simplified Sun Chart Evaluation Form to derive the annual percent of shading for a specific site within Truckee Donner PUD territory:

Step 1: Choose the type of form applicable to the field instrument you're using (polar or Cartesian).

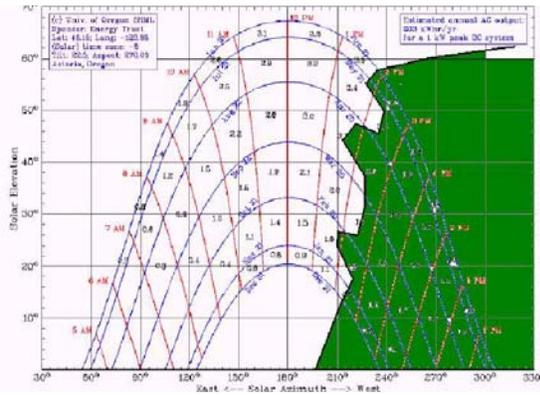


Step 2: Obtain field information for the site using a standard instrument such as Solar Pathfinder (polar coordinate system), Solar Site Selector (Cartesian), or compass/inclinometer method. Be sure to correct for due south from magnetic south by using a compass and



correcting the reading for deviation of the magnetic pole from the true north pole. NOTE: Truckee Donner PUD requires site sun chart information from the “worst”, usually lowest and most shaded, location of the proposed array.

Step 3: Transfer the visual field information to the chart. NOTE: Field information can be entered into several charts for comparison of different tilts/azimuths.



Step 4: Calculate the percentage of annual shading. For a completely shaded square, use the entire % loss. For a partially shaded square, estimate the % loss of that square. For example, if the loss of energy in a square is 2.4%, and about 1/4 of the square is shaded, then 0.6% is the annual energy loss.

Percent Annual Shading (derived from Sun Chart)	Shading Factor
0% to 15%	1.0
15% to 25%	0.9
25% to 35%	0.75
>35%	0.0 (no incentive)

Step 5: Sum the values in each time period to obtain the Percent Annual Shading. To obtain the Shade Factor, refer to the following Table:

Step 6: Enter the appropriate Shade Factor in the Truckee Donner PUD PV Buy Down Application Form in order to calculate the Design Factor.

SB1 Solar Program Status Report

Utility Name: Turlock Irrigation District

Program Reporting Period:

From Program Inception: April 19, 2006
 Through: March 31, 2008

1. Program Activities

a) Summary of Program Activities:

TID has seen growing interest in our Solar Rebate Program. TID markets the Solar Rebate Program at community events and has offered an educational workshop. TID incorporated the Clean Power Estimator to our website to assist customers with their decision to incorporate solar in the homes or businesses. All systems currently interconnected are residential retrofits. However, TID currently has one production home builder that has made solar standard on all new homes being built (222 homes) and an additional builder is in the process of incorporating solar too (100 homes).

b) Future Opportunities and Challenges:

TID will need to amend our program to incorporate PBI and EPBI based incentives by January 1, 2009. Several POU's have discussed the need for assistance from the CEC to incorporate different incentive levels in the CEC EPBI calculator.

2. Program Performance

# Applicants	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
35	16	78.91	117,448 (actual generation)
Available Funding ¹	Total Expenditures ²	Incentives Awarded	Incentives Paid
\$23,597,416	\$320,139	\$506,468	\$303,655

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 Retrofit

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

Capacity based residential retrofit

4. Appendix

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 – NCPA Members

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

1. Detailed information about TID's solar rebate program can be found on the internet at:
http://www.tid.com/stellentdmz/groups/public/documents/tidweb_content/tidweb_solar_incentive_program.pdf

SB1 Solar Program Status Report

Utility Name: City of Ukiah

Program Reporting Period:

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

1. Program Activities

a) Summary of Program Activities:

Ukiah has had a PV program in place for a few years and citizens are aware of its existence. The level of activity in this time period is consistent with the activity level of the program over the past few years.

b) Future Opportunities and Challenges:

Achieving its pro-rated portion of the SB1 goal will probably require additional marketing in order to assure that citizens in Ukiah are aware of the program.

2. Program Performance

	Total Systems Installed	Total kW Installed	Estimated Generation (kWh)
# Applicants	1	2.1	2,521
1	1	2.1	2,521
Available Funding¹	Total Expenditures²	Incentives Awarded	Incentives Paid
\$2,000,000	\$8,133	\$5,883	\$5,883

3. Additional Information (as available)

a) Known customer application issues/applications not approved

b) Non PV solar systems installed

c) Facility end use information

Residential

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

2.80/watt ac; single family dwelling

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.