



Fax: (408) 746-3890
 167 Commercial Street
 Sunnyvale, CA 94086

July 16, 2009

System Quotation

Solar System Owner



Solar System Size

4,200 Watts DC Solar Electric System
 3,740 Watts AC Solar Electric System

Complete Turn-Key System Cost to Include the Following Items: \$31,664.09

Module	HIP-210NKHA5	Sanyo 210 W HIT Power 210N	20
Inverter	SB 4000US	SMA 4000US Watt 240v	1
Racking		Roof Mount SolaRak	
Equipment		Misc Electrical Equipment Solar Permit	
Labor		Design and Engineering General Labor REC Sales Tax	
Warranty		10 Year Install Warranty	

Grand Total	\$31,664.09
Rebate*	\$6,735.00
Total To REC	\$24,929.09
Amex Savings	\$144.50
Member Savings	\$289.00
Federal Tax Credit	\$7,478.73
Net System Cost	\$17,016.87

GENERAL DISCLAIMER: All quotations are valid for (30) days from the date of the quotation unless a reduction of rebate occurs within the 30 day period. Design, permitting, installation, utility interconnection and rebate paperwork as detailed in the "General Contract for Services" is included in quoted system cost. The total price paid to Contractor is listed as "Total to REC Solar." "Net System Cost" is realized after tax returns are filed and related tax credits are applied by the IRS.

TAX/FINANCIAL DISCLAIMER: The tax information on this page is intended for discussion purposes only and should not be construed as tax advice. All applicable federal tax credits are estimates. Actual tax credits will be based on customer's financial situation. Customers applying for the commercial tax credit should consult with a tax professional to determine eligibility. We recommend that you contact an accountant or tax attorney for any specific financial advice.

*Incentive amount is an estimate only and will be verified by REC Solar Engineer prior to system installation.

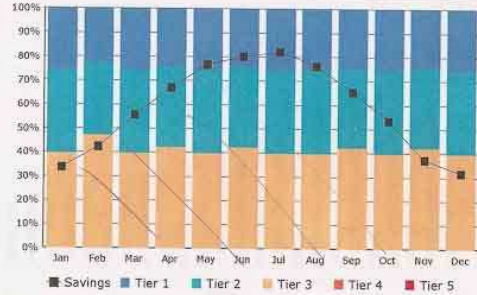


System Performance Analysis Using Net Energy Metering

Site Location: ██████████
System Size: 4,200 Watts DC
Tilt Angle: 4 in 12 (19 Deg)
Mounting Azimuth: 237 - 258 (West South-West)
Proposed Tariff: ██████████ Schedule E-1 Residential
 All - Total

Total Energy Bill Offset
58.50%
Total kWh Offset
49.75%

Tier 1 usage 0.09093
 Tier 2 usage 100%-200% 0.12415
 Tier 3 usage Over 200% 0.16616



Baseline kWh per Day
 All 10.0

	Current Usage (kWh)	Solar Production (kWh)	Current Utility Charges	Estimated Utility Charges with Solar
January	885	225	\$110.71	\$73.32
February	885	292	\$114.22	\$65.71
March	885	409	\$110.71	\$48.92
April	885	508	\$111.88	\$36.84
May	885	602	\$110.71	\$25.73
June	885	641	\$111.88	\$22.19
July	885	669	\$110.71	\$19.64
August	885	597	\$110.71	\$26.19
September	885	493	\$111.88	\$38.70
October	885	386	\$110.71	\$51.65
November	885	251	\$111.88	\$70.17
December	885	211	\$110.71	\$75.65
Total	10620	5283	\$1,336.69	\$554.71

Annual Solar Production (kWh)	5,283
Conservative calculation using 25 yr. Solar chart data, panel, and inverter specifications	
Estimated 1st year Electric Bill Savings	\$782
Estimated by calculating your past electricity usage and the amount we will offset from your bill	
Cost per kWh of Solar Electricity	\$0.15
Calculated by dividing cost of system and expected power generation	
Credit Given by Utility for Electricity	\$0.15
Value of Actual kWh Produced by Solar Electric System	
Payback	14.6 Years
(Payback assuming 6.0% rate escalation in savings calculation)	

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Financial Analysis

Cost of Power: Annual Residential Rate Escalation: **6.0%**

	Current	Year 10	Year 25
Average Utility Cost per kWh:	\$0.15	\$0.25	\$0.61
Fixed Price per kWh of Solar Power:	\$0.15	\$0.15	\$0.15
Solar Saving per kWh:	\$0.00	\$0.10	\$0.46

Financial Return:

	1st Year	Year 5	Year 10
True return based on electricity bill paid with After-Tax Dollars:	\$782	\$987	\$1321
Return on Investment post-tax:	4.48%	5.66%	7.57%
Equivalent Investment Yield with Pre-Tax Dollars:	\$1114	\$1407	\$1883
Return on Investment pre-tax:	6.39%	8.06%	10.79%



Cost Summary:

Grand Total	\$31,664.09
Rebate*	6,735.00
Total To REC	\$24,929.09
Amex Savings	144.50
Member Savings	289.00
Federal Tax Credit	7,478.73
Net System Cost	\$17,016.87

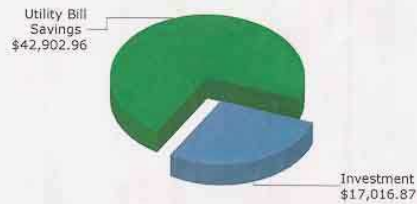
First Year Home Value Appreciation: \$15,639.60
*\$1 in energy savings = \$20 in resale value

Definitions:

Average Utility Cost per kWh: Average cost of utility power offset by solar electricity

Fixed Price of Solar Power: The net cost of the system, divided by the lifetime production of the system; the production includes 0.50% per year loss of output due to aging.

Cost/Benefit Analysis
Over Lifetime of System



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Solar Electric Power System

ENVIRONMENTAL REVIEW

Name: _____

Date: _____

System Description: 4,200 DC Watt, Utility Interactive Photovoltaic System

This sheet quantifies some of the environmental benefits that your system will provide by replacing electricity made from the burning of fuels.

LIFETIME KWH PRODUCTION

Line a 124,445

The amount of electricity your solar electric system will produce over its 25-year lifetime.

BARRELS OF OIL OFFSET BY YOUR SYSTEM

= a x 0.00203 253

The number of barrels of oil required to generate the same amount of electricity that your system will produce in its 25-year lifetime.

CAR MILES NOT DRIVEN

= a x 1.7755 220,952

Using electricity generated from fossil fuels and driving cars are the two personal activities that have the most significant environmental impact.

ACID RAIN EMISSIONS REDUCTION, lbs

= a x 0.0075 933

Generating electricity from fossil fuels also releases Sulfur Oxides and Nitrogen Oxides, primary causes of acid rain, into the air. Acid rain damages lakes, streams, trees and forest soils.

SMOG EMISSIONS REDUCTION, lbs

= a x 0.0036 448

Nitrogen Oxides are a key contributor to the formation of ground level ozone, a major component of smog. Ozone irritates the eyes, and aggravates respiratory problems. It is our most widespread and intractable urban air pollution problem.

GREENHOUSE GAS REDUCTION, lbs

= a x 1.42 176,712

Carbon dioxide, along with other 'greenhouse gases', causes global warming. This results in increased rainfall and violent storms, decreased snow and ice cover, and rising sea levels.

NUMBER OF MATURE TREES PLANTED

= a x 0.0034 423

Trees remove carbon dioxide from the atmosphere, and many scientists advocate tree planting as a way to offset carbon dioxide emissions into the atmosphere.

System Performance - The cost savings values presented were developed using the best available "real world" factors that influence system performance. However any particular installation performance cannot be guaranteed to match performance measures stated and may vary. Data sources: Emissions data: US Environmental Protection Agency E-GRID 2000; Electricity mix and energy content: US DOE Energy Information Administration; Car miles and tree data: US EPA, Green Mountain Power.



Incentive Calculator - Current Standard PV

Site Specifications:

Project Name
 ZIP Code
 City
 Utility
 Customer Type
 Incentive Type

Proposed

[Redacted]
 [Redacted]
 PG&E
 Residential
 EPBB

PV System Specifications:

PV Module

 Number of Modules
 Mounting Method
 DC Rating (kW STC)
 DC Rating (kW PTC)
 Inverter
 Number of Inverters
 Inverter Efficiency (%)
 Shading
 January
 February
 March
 April
 May
 June
 July
 August
 September
 October
 November
 December
 Array Tilt (degrees)
 Array Azimuth (degrees)

Sanyo Electric Co. Ltd.:HIP-210NKHA5
 210.0W STC, 194.9W PTC, 193.5W PTC_{adj}¹
 20
 >1" to 3" average standoff
 4.2000
 3.8980
 SMA America:SB4000US (240V)
 1
 96.00 %

Shading Derate Factors (%)

95
 95
 95
 95
 95
 95
 95
 95
 95
 95
 95
 95
 95
 95
 19

237 True North 0°



Optimal Tilt (proposed azimuth) 19
 Optimal Tilt (facing South) 21

Results

Annual kWh 5,643 (a)
 at optimal tilt 5,943 (b)

facing south at optimal tilt	6,262 (c)
Summer Months	May-October
Summer kWh	3,573 (e)
at optimal tilt	3,761 (f)
facing south at optimal tilt	3,819 (g)
CEC-AC Rating	3.742 kW
Design Correction ²	95.001%
Geographic Correction ³	97.206%
Installation Correction ⁴	99.267%
Design Factor⁵	91.670%
CSI Rating⁶	3.430 kW
Incentive Rate	\$1.55/Watt
Incentive⁷	\$5,317
Report Generated on	██████████/2009 ██████████

The CSI-EPBB calculator is a tool available to the public and participants of the CSI program, whose sole purpose is to calculate an appropriate incentive level based on a reasonable expectation of performance for an individual system. Actual performance of an installed PV system is based on measurements and is not guaranteed. The CSI-EPBB calculator is not intended to be interpreted as a guarantee of system performance. Actual performance of an installed PV system is based on measurements summarized in the CSI-EPBB calculator. For this reason, contractors, participating customers, and other interested parties should determine an appropriate incentive when applying to the CSI incentive program. Additional uses for the calculator are not endorsed or encouraged.

Notes:

1. **PTC_{adj}**: The adjusted PTC rating is calculated based on the installation method and panel specifications. See the Use of the calculator.
2. **Design Correction**: This is the ratio of the summer output of the proposed system (e) and the summer output of the summer optimal south facing system at the reference location (d).
3. **Geographic Correction**: This is the ratio of the annual output of the summer optimal south facing system at the proposed location (g) and the annual output of the summer optimal south facing system at the reference location (d).
4. **Installation Correction**: This is the ratio of the adjusted PTC rating and the unadjusted PTC rating.
5. **Design Factor**: This is the product of the Design Correction, Geographic Correction, and Installation Correction.
6. **CSI Rating**: This is the product of the Design Factor and the CEC-AC Rating.
7. **Incentive**: This is the total incentive for the proposed system. It is the product of the CSI Rating and the Incentive Rate. Please be aware that the final CSI incentive rate that is reserved for you will be determined by your CSI Program Administrator. Application is approved, and may be lower than the current incentive rate shown in the CSI Statewide Trigger Point Table, which is subject to change based upon the configuration of the as-built system. (Per the CSI Handbook, no projects or applications for which information has been submitted and approved in writing by the Program Administrator.)
8. As of 6/20/08, the CSI-EPBB calculator performs rounding as follows:
 - o Estimated kWh production is rounded to the kWh
 - o CEC-AC rating is rounded to the watt
 - o CSI rating is rounded to the watt
 - o Design factor is rounded to 5 significant digits
 - o Incentive is rounded to the dollar

E-mail CSI-EPBB@aesc-inc.com with questions or comments.

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Electrical Consumption Analysis for Current Rate Structure

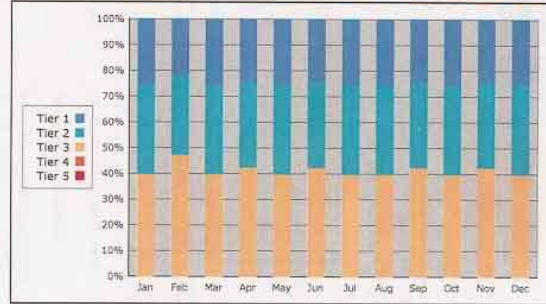
Site Location: ██████████, Ca

Utility Rate Structure

██████████ Schedule E-1 Residential

All - Total

Tier 1 usage 0.09093
 Tier 2 usage 100%-200% of 0.12415
 Tier 3 usage Over 200% of 0.16616



Baseline kWh per Day

All 10.0

	Current Usage (kWh)	Utility Charges Without Solar	Average Cost per kWh
January	885	\$110.71	\$0.13
February	885	\$114.22	\$0.13
March	885	\$110.71	\$0.13
April	885	\$111.88	\$0.13
May	885	\$110.71	\$0.13
June	885	\$111.88	\$0.13
July	885	\$110.71	\$0.13
August	885	\$110.71	\$0.13
September	885	\$111.88	\$0.13
October	885	\$110.71	\$0.13
November	885	\$111.88	\$0.13
December	885	\$110.71	\$0.13

Annual kWh Usage	10,620
Average Cost per kWh	\$0.13
Annual Utility Charges Without Solar	\$1,337
Five year Electricity Cost from Utility Without Solar*	\$7,535
Ten year Electricity Cost from Utility Without Solar*	\$17,619

*Annual Residential Rate Escalation 6.0%, Based on an Independent Energy Rate Trend Study

This information is intended for discussion purposes only and should not be construed as tax or financial advice. We recommend that you contact an accountant or tax attorney for any specific financial advice.

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