


California Solar Initiative

Expected Performance Based Buydown Calculator

	Proposed	Reference
Site Specifications:		
ZIP Code	95112	92867
City	San Jose	Orange
Utility	PG&E	
Customer Type	Residential	
PV System Specifications:		
PV Module	Sharp Corporation:ND-167U1	
Number of Modules	24	24
DC Rating (kW STC)	4.0080	4.0080
DC Rating (kW PTC)	3.5304	3.5304
Inverter	SMA America:SB4000US (240V)	
Number of Inverters	1	1
Inverter Efficiency (%)	96.00 %	96.00 %
Shading	Minimal Shading	Minimal Shading
Array Tilt (degrees)	20	
Array Azimuth (degrees)	160	
		
Optimal Tilt (proposed azimuth)	21	
Optimal Tilt (facing South)	21	17
Results		
Annual kWh	5,808 (a)	
at optimal tilt	5,928 (b)	
facing south at optimal tilt	5,928 (c)	6,055 (d)
Summer Months	May-October	May-October
Summer kWh	3,541 (e)	
at optimal tilt	3,597 (f)	
facing south at optimal tilt	3,597 (g)	3,496 (h)
CEC-AC Rating	3.389 kW	
Design Correction¹	0.984	
Geographic Correction²	0.979	
Design Factor³	0.964	
Incentive Rate	\$2.41/Watt Eligible Incentive⁴	\$2.50/Watt Reference Incentive
Incentive⁵	\$8,166.10	
Report Generated on	5/3/2007 9:37:22 AM	

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

Notes:

- Design Correction:** This is the ratio of the summer output of the proposed system (e) and the summer output of the summer optimal system at the proposed location (f).
- Geographic Correction:** This is the ratio of the annual output of the summer optimal south facing system at the proposed location (c) and the annual output of the summer optimal south facing system at the reference location (d).
- Design Factor:** This is the product of the Design Correction and Geographic Correction.
- Eligible Incentive Rate:** This is the product of the Design Factor and the current CSI EPBB reference incentive rate (which depends on the selected utility and customer type).
- Incentive:** This is the total incentive for the proposed system. It is the product of the CEC-AC Rating and the Eligible Incentive Rate.
- While the displayed results have been rounded for clarity, all calculations use full precision. Attempting to calculate the total incentive using the displayed system rating and design factor may result in differences due to rounding.

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

Copyright, 2006 [AESC](http://www.aesc.com)