



## Incentive Calculator - CSI Standard PV

The CSI-EPBB calculator is a tool available to participants of the CSI Program to determine the EPBB Design Factor and calculate an appropriate incentive level based on a reasonable expectation of performance for an individual system. The CSI-EPBB Calculator has also been created for consumer's to educate themselves on the differences of solar system design and how changes to the PV system's specifications will produce different kilowatt hour results over the course of a year. Please be aware that actual performance of an installed PV system is based on numerous factors, including some factors that may not be considered in the CSI-EPBB Calculator. While this calculator relies on industry-standard assumptions, and is driven by [NREL's PV Watts v. 2 calculator](#), there may be other factors that affect the output of your PV System.

### Site Specifications:

Project Name: Tiburon example  
 ZIP Code: 94920  
 City: Belvedere  
 Utility: PG&E  
 Customer Type: Residential  
 Incentive Type: EPBB

### Reference

92867  
 Orange

### PV System Specifications:

PV Module: Sharp:NU-U235F4  
 235.0W STC, 211.9W PTC, 215.2W PTC<sub>adj</sub><sup>1</sup>  
 Number of Modules: 16  
 Mounting Method: >6" average standoff  
 DC Rating (kW STC): 3.7600  
 DC Rating (kW PTC): 3.3904  
 Inverter: Enphase Energy:M215-60-2LL-S2x

**This inverter requires the addition of a meter/display to qualify for the CSI program. The CSI program requires that all EPBB customers install a +/-5% or better meter. Please refer to section 11 of the CSI Handbook or the California Energy Commission's List of Eligible System Performance Meters.**

Number of Inverters: 16  
 Inverter Efficiency (%): 96.00 %  
 Shading: Minimal Shading  
 Array Tilt (degrees): 18  
 Array Azimuth (degrees): 225 **True North 0°**

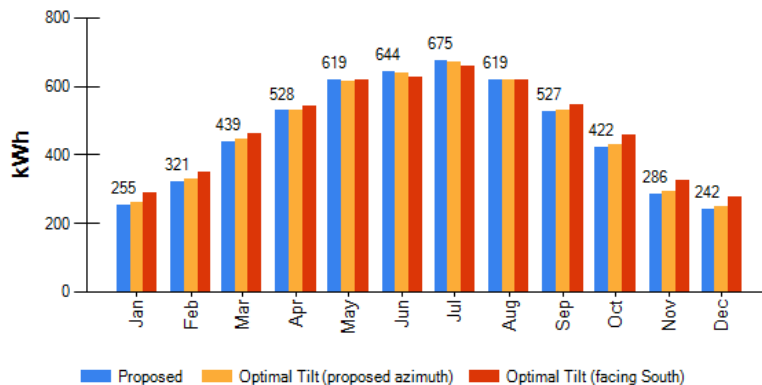


Minimal Shading

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

17

### Estimated Monthly Production



Results	Proposed	Reference
Annual kWh	5,577 (a)	
at optimal tilt	5,617 (b)	
facing south at optimal tilt	5,774 (c)	5,760 (d)
Summer Months	May-October	May-October
Summer kWh	3,506 (e)	
at optimal tilt	3,510 (f)	
facing south at optimal tilt	3,527 (g)	3,332 (h)
<b>CEC-AC Rating</b>	<b>3.255 kW</b>	
Design Correction <sup>2</sup>	99.886%	
Geographic Correction <sup>3</sup>	100.000%	
Installation Correction <sup>4</sup>	100.000%	
<b>Design Factor<sup>5</sup></b>	<b>99.886%</b>	
<b>CSI Rating<sup>6</sup></b>	<b>3.251 kW</b>	
<b>Incentive Rate</b>	<b>\$0.25/Watt</b>	
<b>Incentive<sup>7</sup></b>	<b>\$813</b>	
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Notes:

- PTC<sub>adj</sub>**: The adjusted PTC rating is calculated based on the installation method and panel specifications. See the User Guide Appendix A for details on the adjusted PTC calculation.
- 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).
- Installation Correction**: This is the ratio of the adjusted PTC rating and the unadjusted PTC rating.
- Design Factor**: This is the product of the Design Correction, Geographic Correction, and Installation Correction.
- CSI Rating**: This is the product of the Design Factor and the CEC-AC Rating.
- 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 at the time your reservation request (RR) application is approved, and may be lower than the current incentive rate shown in the CSI Statewide Trigger Point Tracker. Please note that final incentive amounts are subject to change based upon the configuration of the as-built system. (Per the CSI Handbook, no projects or applications are reserved CSI funding until all required information has been submitted and approved in writing by the Program Administrator.)
- As of 6/20/08, the CSI-EPBB calculator performs rounding as follows:
  - Estimated kWh production is rounded to the kWh
  - CEC-AC rating is rounded to the watt
  - CSI rating is rounded to the watt
  - Design factor is rounded to 5 significant digits
  - Incentive is rounded to the dollar

E-mail [csi-epbb@aesc-inc.com](mailto:csi-epbb@aesc-inc.com) with questions or comments.