

Version Change Details for version 5.0 of the NSHP CECPV Calculator

NSHP applications must use a version of the NSHP CECPV Calculator that is shown as “certified” on the date the NSHP application is postmarked (or date of submission for electronic NSHP applications). A table of certified versions of the CECPV calculator is maintained on the Energy Commission’s website.

Version 5.0 Released January 23, 2014

- Renamed the compliance form NSHP PV-1 from CF-1R-PV
- Version 5.0 shall only be used for NSHP projects with buildings that meet or exceed the 2013 update of the *California Building Energy Efficiency Standards*.
- Revised weather data files and TDV factors for all sixteen climate zones have been incorporated into this calculator version (see below for additional information)
- Added a new Code Compliant Incentive Level
- Revised the Tier II incentive level to \$1.75/watt for Incentive Level 6
- Incentive Levels 1 through 3 are now displayed in the table of incentives found on both the Results page and the last page of the NSHP PV-1.
- The per site and application total kW AC system size, Annual kWh, and Annual TDV kBtu are displayed on the last page of the NSHP PV-1.
- Additional PV modules and inverters
- Removed the signature block for both the Homeowner/Builder/Developer or Applicant’s Authorized Representative and the Documentation Author because signatures are no longer required on this form.

Changes to TDV and Weather Data in Version 5.0 of the NSHP CECPV Calculator

The CECPV calculator uses the time-dependent valuation (TDV) factors and weather data from the California Building Energy Efficiency Standards, Title 24, Part 6. The weather data and TDV factors were updated as part of the 2013 Building Energy Efficiency Standards code cycle. All homes participating in the NSHP program that are permitted under the 2013 Standards must use an updated CECPV calculator that is consistent with the 2013 Standards.

The updated TDV factors and weather data impact the expected performance-based incentive for a solar energy system by modifying the hourly estimated electricity generation (weather data) and the time-weighted valuation of that generation (TDV factors).

For illustration purposes, the table below documents the calculated incentive in all 16 climate zones for a reference system (2.64 kWdc, azimuth 180° from north, slope 22.6°) consistent with the 2008 Standards and the 2013 Standards. The impact to the incentive of a specific system will depend on the location and installation details of that system.

Filename	Climate Zone	Incentive at \$1.25/watt	Difference between 2013 and 2008
2008_CZ01.csv	CZ01	\$2,241	
2013_CZ01.csv	CZ01	\$2,405	\$164
2008_CZ02.csv	CZ02	\$2,410	
2013_CZ02.csv	CZ02	\$2,622	\$212
2008_CZ03.csv	CZ03	\$2,678	
2013_CZ03.csv	CZ03	\$2,769	\$91
2008_CZ04.csv	CZ04	\$2,729	
2013_CZ04.csv	CZ04	\$2,729	\$0
2008_CZ05.csv	CZ05	\$2,755	
2013_CZ05.csv	CZ05	\$2,935	\$180
2008_CZ06.csv	CZ06	\$2,816	
2013_CZ06.csv	CZ06	\$2,627	-\$189
2008_CZ07.csv	CZ07	\$3,107	
2013_CZ07.csv	CZ07	\$2,759	-\$348
2008_CZ08.csv	CZ08	\$2,727	
2013_CZ08.csv	CZ08	\$2,541	-\$186
2008_CZ09.csv	CZ09	\$2,605	
2013_CZ09.csv	CZ09	\$2,617	\$12
2008_CZ10.csv	CZ10	\$2,573	
2013_CZ10.csv	CZ10	\$2,615	\$42
2008_CZ11.csv	CZ11	\$2,798	
2013_CZ11.csv	CZ11	\$2,625	-\$173
2008_CZ12.csv	CZ12	\$2,834	
2013_CZ12.csv	CZ12	\$2,531	-\$303
2008_CZ13.csv	CZ13	\$2,629	
2013_CZ13.csv	CZ13	\$2,474	-\$155
2008_CZ14.csv	CZ14	\$2,803	
2013_CZ14.csv	CZ14	\$2,815	\$12
2008_CZ15.csv	CZ15	\$2,713	
2013_CZ15.csv	CZ15	\$2,502	-\$211
2008_CZ16.csv	CZ16	\$2,793	
2013_CZ16.csv	CZ16	\$2,814	\$21