

## Bay Area Potential Solar on Schools

Metric	Data/Calculation	Units	Comments
<b>K-12 Estimated Capacity</b>			
Number of K-12 School Districts	159		From school district websites
Estimated MW/K-12 District	3.20	MW	Extrapolated from existing installations. Ranges from 0.1 to 11.2 MW.
<b>Total capacity all Bay Area K-12 Districts</b>	<b>508.88</b>	<b>MW</b>	
Capacity factor	19%		Weighted annual average estimated capacity factor for all installed California Solar Initiative (CSI) solar systems for 2008.
Avg generation	96.69	MW	
Hours per year	8,766	Hrs/yr	24 hours/day, 365 days/year
<b>Projected output (MW/yr)</b>	<b>847,559</b>	<b>MWh/yr</b>	
<b>K-12 Estimated Savings</b>			
Grid electricity emissions factor	524	lbs CO2/MWh	Based on the average emissions rate for PG&E's electric portfolio, consistent with the emissions rate (independently certified and registered each year with the California Climate Action Registry).
<b>GHG Avoided (lbs)</b>	<b>444,121,001</b>	<b>lbs CO2/year</b>	
	2,204.622620	lbs/metric tons	
GHG Avoided (Mt)	201,449.90	Mt CO2/yr	
Jobs per MW	38	job-years/MW	Measured in "job/MW" used in operation and maintenance
<b>Jobs</b>	<b>19,292</b>	<b>Job-years</b>	
<b>K-12 Estimated Costs &amp; Cost Savings</b>			
Project Costs in existing installations	\$ 156,240,000	\$	Extrapolated from existing installations w/known costs (Those that did not include costs: East Side, Mt. Diablo, Oakland, Sonoma Valley and South SF UHSDs)
Total MW Installed in existing installations	40.4	MW	Extrapolated from existing installations with known costs (This excludes East Side, Mt. Diablo, Oakland, Sonoma Valley and South SF UHSDs)
Estimated cost/MW	\$ 3,869,530	\$	
<b>Total Cost for all Bay Area K-12 Districts</b>	<b>\$ 1,969,124,330</b>	<b>\$</b>	With cost of solar quickly declining, this total cost is an overestimate for future projects.
Project Cost Savings over project lifetime in existing installations	\$ 468,233,000	\$	Extrapolated from existing installations w/known cost savings (Those that did not include cost savings: Oakland, West Contra Costa SDs)
Total MW Installed in existing installations	44.5	MW	Extrapolated from existing installations with known cost savings (This excludes Oakland Unified and West Contra Costa SDs)
Estimated cost savings/MW	\$ 10,532,267	\$/MW	
Average solar system life	26	Years	Extrapolated from existing installations.
<b>Estimated Annual Savings for all Bay Area K-12 Districts</b>	<b>\$ 209,725,624</b>	<b>\$/year</b>	Over project lifetime, 9.3 year payback

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Bay Area Climate Collaborative  
Bridge to the Clean Economy  
[www.BridgeToCleanEconomy.org](http://www.BridgeToCleanEconomy.org)  
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**Source**

See 'Bay Area Schools Data' tab

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[http://www.pge.com/includes/docs/pdfs/shared/solar/csi/csi\\_final0708impact\\_evaluation.pdf](http://www.pge.com/includes/docs/pdfs/shared/solar/csi/csi_final0708impact_evaluation.pdf)

<http://www.pge.com/about/environment/calculator/assumptions.shtml>

<https://www.google.com/search?sourceid=chrome&ie=UTF-8&q=metric+tons+to+lbs>

[http://rael.berkeley.edu/sites/default/files/WeiPatadiaKammen\\_CleanEnergyJobs\\_EPolicy2010.pdf](http://rael.berkeley.edu/sites/default/files/WeiPatadiaKammen_CleanEnergyJobs_EPolicy2010.pdf)

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