

## R-REP Greenhouse Gas Reductions



Metric	Count	Units	Comment	Reference
<b>Projected Impact</b>				
Megawatts installed capacity	30.8	MW		
Kilowatts installed capacity	30,843	kW		
Avg Annual Solar Energy Yield	1,300	kilowatt-hour/kilowatt peak		
<b>Projected output per year</b>	40,095,900	kWh/yr		
	40,096	mWh/yr		
Grid electricity emissions factor	445	lbs CO2/MWh		<a href="http://www.pge.com/about/environment/pge/climate/">http://www.pge.com/about/environment/pge/climate/</a>
<b>GHG Avoided (lbs)</b>	17,842,676	lbs CO2/year		
	2,205	lbs/metric tons		
GHG Avoided (Mt)	8,093	Mt CO2/yr	Added each year	
Typical PG&E residential customer annual electricity use	6,480	kWh/yr	540 kWh/month X 12	<a href="http://www.pge.com/about/environment/calculator/assumptions.shtml">http://www.pge.com/about/environment/calculator/assumptions.shtml</a>
Equivalent # of households in PG&E territory offset by R-REP projected output per year	6,188	Homes in PG&E territory (annual)		<a href="http://www.pge.com/about/environment/calculator/assumptions.shtml">http://www.pge.com/about/environment/calculator/assumptions.shtml</a>
GHG Avoided = The same amount of GHG emissions that is produced each year by 1,704 passenger vehicles.				EPA Calculator: <a href="http://www.epa.gov/cleanenergy/energy-resources/calculator.html">http://www.epa.gov/cleanenergy/energy-resources/calculator.html</a>
GHG Avoided = Carbon sequestered by 207,521 of tree seedlings grown for 10 years				EPA Calculator: <a href="http://www.epa.gov/cleanenergy/energy-resources/calculator.html">http://www.epa.gov/cleanenergy/energy-resources/calculator.html</a>

**\*\*The following data assumes that all R-REP project sites will be developed.**