

How Much Will a PV System Supplement My Electric Bill?

This table will help you understand how the production from a photovoltaic system, ranging in size from a nominal 1 kW to 5 kW will compare to your total electricity usage. Locate the row that corresponds to your average usage (monthly or annual kWh or monthly \$ amount) then find the percent of your electricity that will be produced by a PV system.

Percent of Your Usage Supplied by PV System								
Average Monthly Usage in kWh	Average Monthly Bill @ .11/kWh	Average Monthly Bill A .18/kWh	Annual Usage in kWh	1 kW System	2 kW system	3 kW System	4 kW System	5 kW System
250	27.5	\$45.00	3000	38.90%	77.81%	116.71%	155.62%	194.52%
300	33	\$54.00	3600	32.42%	64.84%	97.26%	129.68%	162.10%
350	38.5	\$63.00	4200	27.79%	55.58%	83.37%	111.16%	138.95%
400	\$44.00	\$72.00	4800	24.31%	48.63%	72.95%	97.26%	121.58%
450	\$49.50	\$81.00	5400	21.61%	43.23%	64.84%	86.45%	108.07%
500	\$55.00	\$90.00	6000	19.45%	38.90%	58.36%	77.81%	97.26%
550	\$60.50	\$99.00	6600	17.68%	35.37%	53.05%	70.74%	88.42%
600	\$66.00	\$108.00	7200	16.21%	32.42%	48.63%	64.84%	81.05%
650	\$71.50	\$117.00	7800	14.96%	29.93%	44.89%	59.85%	74.82%
700	\$77.00	\$126.00	8400	13.89%	27.79%	41.68%	55.58%	69.47%
750	\$82.50	\$135.00	9000	12.97%	25.94%	38.90%	51.87%	64.84%
800	\$88.00	\$144.00	9600	12.16%	24.32%	36.47%	48.63%	60.79%
850	\$93.50	\$153.00	10200	11.44%	22.89%	34.33%	45.77%	57.21%
900	\$99.00	\$162.00	10800	10.81%	21.61%	32.42%	43.23%	54.03%
950	\$104.50	\$171.00	11400	10.24%	20.48%	30.71%	40.95%	51.19%
1000	\$110.00	\$180.00	12000	9.73%	19.45%	29.18%	38.90%	48.63%
1050	\$115.50	\$189.00	12600	9.26%	18.53%	27.79%	37.05%	46.32%
1100	\$121.00	\$198.00	13200	8.84%	17.68%	26.53%	35.37%	44.21%
1150	\$126.50	\$207.00	13800	8.46%	16.92%	25.37%	33.83%	42.29%
1200	\$132.00	\$216.00	14400	8.10%	16.21%	24.32%	32.42%	40.53%
1250	\$137.50	\$225.00	15000	7.78%	15.56%	23.34%	31.12%	38.90%
1300	\$143.00	\$234.00	15600	7.48%	14.96%	22.45%	29.93%	37.41%
1350	\$148.50	\$243.00	16200	7.20%	14.41%	21.61%	28.82%	36.02%
1400	\$154.00	\$252.00	16800	6.95%	13.89%	20.84%	27.79%	34.74%
1450	\$159.50	\$261.00	17400	6.71%	13.42%	20.12%	26.83%	33.54%
1500	\$165.00	\$270.00	18000	6.48%	12.97%	19.45%	25.94%	32.42%

*Note that the average Massachusetts home without an electric water heater is between 600 and 650 kWh a month.

kWh (kilowatt hour) prices range from 11 cents to 18 cents depending on utility and time of year...fuel costs to utility power plants vary and are adjusted in your kWh rate. Some utilities present basic service charges separate from their kWh charges. Most utilities supply your average usage charts on each month's bill.