

SUR Energy Sample Payback Consumers EARPs program

Cost per watt	\$8	Typical cost of a large residential system
DC Nameplate Wattage	3000 watts	Typical size used for example
System install cost	\$24,000	
Cash back	\$0	In this program the customer pays initial cost.
Federal tax credit	30%	Based on total system cost (also available with wind and solar hot water)
Federal tax credit \$ amount	\$7,200	
New cost	\$16,800	Installation cost after initial incentive.
Predicted monthly output (based on annual average)	300 kWh	This is typical output with a little shade. Snow coverage not included.
Rate paid to system owner (\$/kWh)	\$0.62	They pay several times the current retail rate for 12 years. This number changes based on the year installed, but remains the same over the 12 year life of the contract.
Average monthly income from solar based on meter reading	\$186	They pay you this IF THE SYSTEM PERFORMS as expected!
Annual income from clean solar electricity	\$2,232	
Simple payback (break even time)	7.53 years	Income and benefits after this many years are the gravy.
Income over 12 year life of contract	\$26,784	
Income after break-even point	\$9,984	
Income as a portion of expense for 12 year contract period	0.59	
Annual return after 12 year contract period	4.95%	About 5% return in 12 years.
Additional value of electricity after the contract period assuming a 25 year array life and today's retail rate (\$.11/kWh).	\$5,148	In order to reap this benefit the output of the system would be moved from the grid side of the meter to the customer side of the meter to supplement usage (or sell). *** SEE NOTE BELOW
Total return after break-even	\$15,132	*** SEE NOTE BELOW

*** Note that these numbers are ALL in terms of today's dollars. If electricity inflates faster than general inflation, the return should improve because the 300kWh's listed will increase in value over time (\$396 will be larger and larger). If general inflation outstrips the inflation of electrical costs (unlikely) the opposite will be true.