



Western Solar

Renewable Energy Solutions

Designing Quality Solar Systems in Washington State Since 1979



4.14 kW Solar System Residential Cash Flow and Payback Analysis	
Solar System Size - Watts DC	4,140
Energy Generated - kWhr/yr	4,250
Installed Price per Watt/DC	\$7.20
Total System Cost Installed	\$29,808
Year One Cash Flow to Owner	\$10,073
Net Cost at end of Year One	\$19,735
Average Monthly Savings	\$94
Year One Savings and Incentives	\$1,131
Payback Period	Year 13
Payback Period w/ Added Property Value	Year 1

Return On Investment	Commercial Solar System	S&P 500 Stocks last 5 years	Money Market last 5 years
Annual After-tax Return on Investment	10.3%	-40%	3%
Annual Return including added property value	26.8%		
System Design Assumptions			
*Includes historical 9.2% annual increase in utility rates and assumes 20 degree tilt, southfacing installation. **Current Funding level at \$0.15/kWh of solar produced ***Current Rate for Greentags with the Northwest Cooperative ****\$21 per \$1 in annual energy savings See article from Appraisal Journal on our website at www.westernsolarinc.com or call 1-360-746-0859			

Year	Installed Cost	30% Federal Tax Credit or Grant	Advanced Federal Depreciation	Savings electricity not purchased*	Washington State Annual Production Credit Payment**	Annual Green Tag Payments***	Total annual energy savings	Average Monthly Savings	Total Cash-Flows	Value added to property****
1	(\$29,808)	\$8,942	\$0.00	\$408	\$638	\$85	\$1,131	\$94	(\$19,735)	\$23,741
2			\$0.00	\$446	\$638	\$85	\$1,168	\$97	(\$18,567)	\$24,529
3			\$0.00	\$487	\$638	\$85	\$1,209	\$101	(\$17,358)	\$25,390
4			\$0.00	\$531	\$638	\$85	\$1,254	\$104	(\$16,104)	\$26,329
5			\$0.00	\$580	\$638	\$85	\$1,303	\$109	(\$14,802)	\$27,356
6			\$0.00	\$634	\$638	\$85	\$1,356	\$113	(\$13,446)	\$28,477
7				\$692	\$638	\$85	\$1,414	\$118	(\$12,031)	\$29,701
8				\$755	\$638	\$85	\$1,478	\$123	(\$10,553)	\$31,037
9				\$825	\$638	\$85	\$1,547	\$129	(\$9,006)	\$32,497
10				\$901	\$638	\$85	\$1,623	\$135	(\$7,382)	\$34,091
11				\$984	\$638	\$85	\$1,706	\$142	(\$5,676)	\$35,831
12				\$1,074	\$638	\$85	\$1,797	\$150	(\$3,879)	\$37,732
13				\$1,173	\$638	\$85	\$1,896	\$158	(\$1,984)	\$39,807
14				\$1,281	\$638	\$85	\$2,004	\$167	\$20	\$42,074
15				\$1,399	\$638	\$85	\$2,121	\$177	\$2,141	\$44,549
16				\$1,528	\$638	\$85	\$2,250	\$188	\$4,391	\$47,251
17				\$1,668	\$638	\$85	\$2,391	\$199	\$6,782	\$50,203
18				\$1,822	\$638	\$85	\$2,544	\$212	\$9,326	\$53,425
19				\$1,989	\$638	\$85	\$2,712	\$226	\$12,037	\$56,945
20				\$2,172	\$638	\$85	\$2,895	\$241	\$14,932	\$60,788
21				\$2,372	\$638	\$85	\$3,094	\$258	\$18,027	\$64,984
22				\$2,590	\$638	\$85	\$3,313	\$276	\$21,339	\$69,567
23				\$2,829	\$638	\$85	\$3,551	\$296	\$24,890	\$74,571
24				\$3,089	\$638	\$85	\$3,811	\$318	\$28,702	\$80,036
25				\$3,373	\$638	\$85	\$4,095	\$341	\$32,797	\$86,003
25 Year Total				\$35,600	\$15,938	\$2,125	\$53,663		\$32,797	\$86,003