

System Advisor Model Report

PVWatts
Residential

0.50 kW Nameplate
\$1.02/W Installed Cost

33.45, -111.98
UTC -7

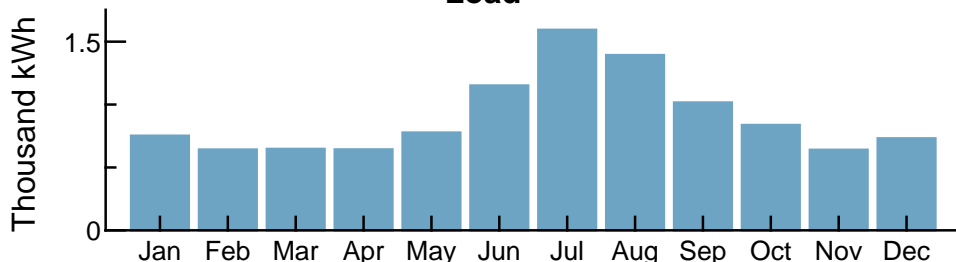
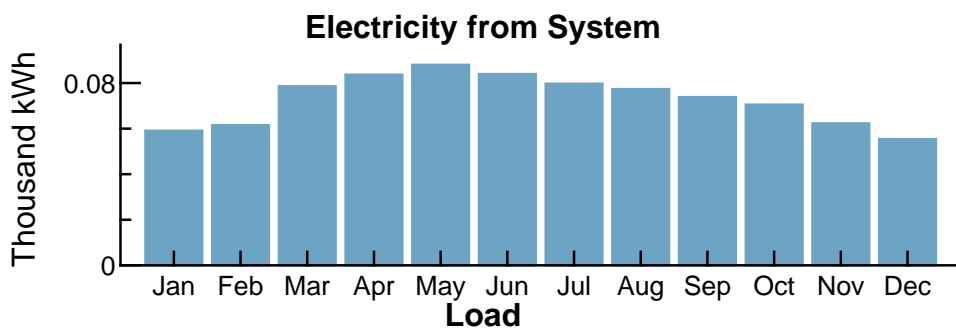
Performance Model			Financial Model			
PV System Specifications			Project Costs			
System nameplate size	0.5 kW		Total installed cost	\$509		
Module type	0		Salvage value	\$0		
DC to AC ratio	1.15		Analysis Parameters			
Rated inverter size	0.43 kW		Project life	25 years		
Inverter efficiency	96 %		Inflation rate	2.5%		
Array type	fixed roof mount		Real discount rate	6.4%		
Array tilt	20 degrees		Project Debt Parameters (Mortgage)			
Array azimuth	180 degrees		Debt fraction	100%		
Ground coverage ratio	N/A		Amount	\$509		
Total system losses	14.08 %		Term	25 years		
Shading	no		Rate	4%		
Performance Adjustments			Tax and Insurance Rates			
Availability/Curtailment	none		Federal income tax	15 %/year		
Degradation	0.5 %/yr		State income tax	7 %/year		
Hourly or custom losses	none		Sales tax (% of indirect cost basis)	5%		
Results			Insurance (% of installed cost)		0 %/year	
Solar Radiation			Property tax (% of assessed val.)		0 %/year	
AC Energy			Incentives			
	(kWh/m2/day)	(kWh)	Federal ITC		26%	
Jan	4.85	59	Electricity Demand and Rate Summary			
Feb	5.64	61	Annual peak demand 4.3 kW			
Mar	6.75	78	Annual total demand 10,829 kWh			
Apr	7.59	83	Generic Residential			
May	8	87	Fixed charge: \$10/month			
Jun	8.11	83	Monthly excess with kWh rollover			
Jul	7.3	79	Tiered TOU energy rates: 4 periods, 1 tier			
Aug	7.07	77	Results			
Sep	6.96	73	Nominal LCOE			4.1 cents/kWh
Oct	6.24	70	Net present value			\$2,100
Nov	5.35	62	Payback period			1.8 years
Dec	4.49	55				
Year	6.53	873				

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Year 1 Monthly Generation and Load Summary



Year 1 Monthly Electric Bill and Savings (\$)

Month	Without System	With System	Savings
Jan	198	183	14
Feb	170	155	15
Mar	171	152	19
Apr	170	150	20
May	204	182	21
Jun	297	276	20
Jul	408	388	19
Aug	358	339	19
Sep	264	245	18
Oct	219	201	17
Nov	170	154	15
Dec	192	179	13
Annual	2,827	2,608	218

NPV Approximation using Annuities

Annuities, Capital Recovery Factor (CRF) = 0.1023		
Investment	\$0	Sum:
Expenses	\$-0	\$200
Savings	\$0	NPV = Sum / CRF:
Energy value	\$200	\$2,000

Investment = Installed Cost - Debt Principal - IBI - CBI

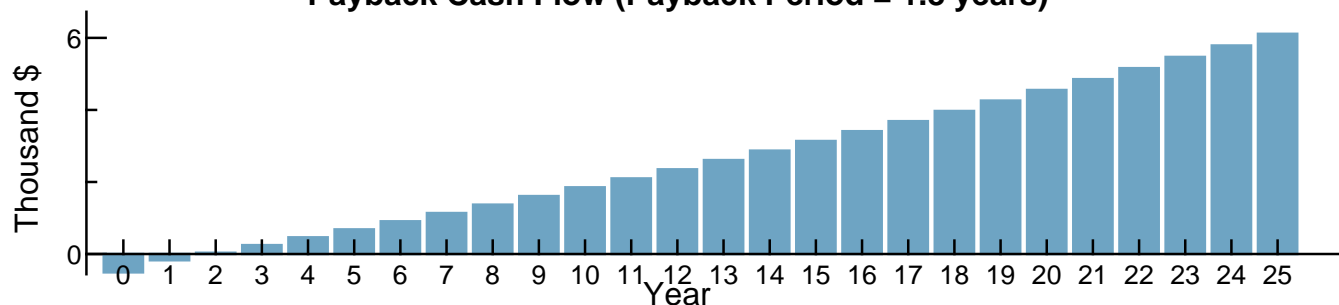
Expenses = Operating Costs + Debt Payments

Savings = Tax Deductions + PBI

Energy value = Tax Adjusted Net Savings

Nominal discount rate = 9.06%

Payback Cash Flow (Payback Period = 1.8 years)



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This performance model does not specify any loss diagram items.
Current case name is untitled