



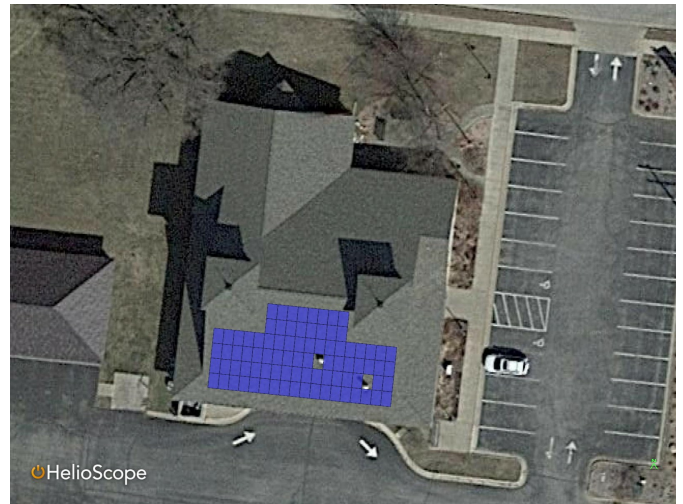
Trempealeau Library - Proposal

Prepared by: Ethos Green Power Cooperative

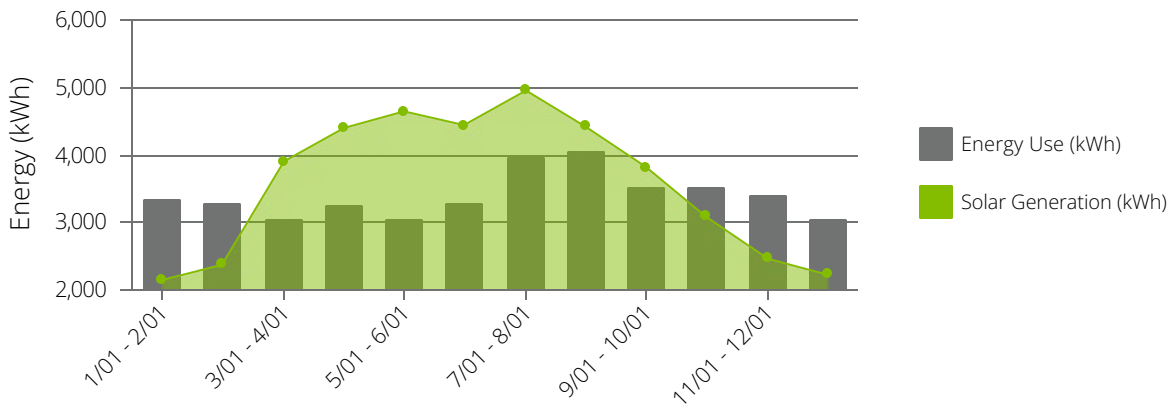
8/24/2022



Production & Payback Forecast

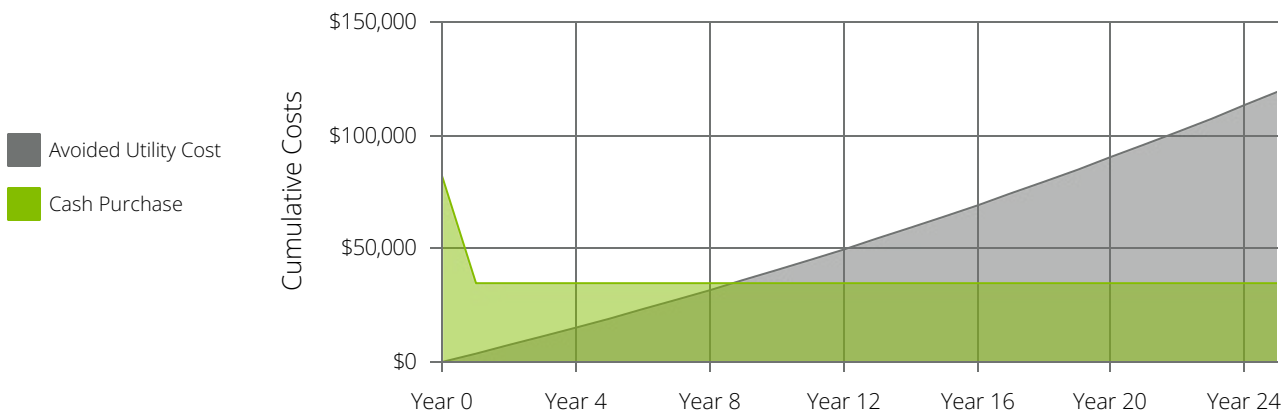


Estimated Monthly Usage vs. Production



Your system is projected to produce 105.4% of your current annual energy consumption.
 Your net annual energy consumption is estimated at **(2,197)** kWh.

Payback Period Forecast



Your system is projected to pay for itself in 8.7 Years.



Components, Costs, & Incentives

Site Details

Facility: Meter #1
 Address: 11455 Fremont St Trempealeau WI 54661

Solar PV Equipment

Solar Panels: (86) BOVIET BVM6610M-370S-H-HC-BF
 Inverters System: (86) Enphase IQ8PLUS-72-2-US (240V)
 Racking System: Flush mount roof racking

Solar PV Equipment Typical Lifespan

Solar Panels: Greater than 30 Years
 Inverters: 15 Years

Solar PV System Rating

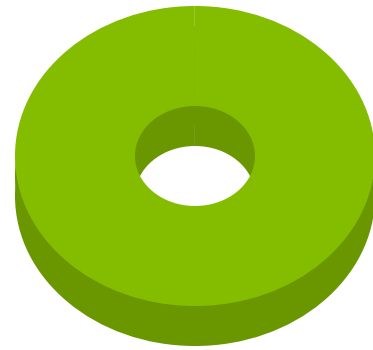
Power Rating (DC): 31.8 kW-DC
 Power Rating (AC Output): 24.9 kW-AC

Cost per Watt \$2.58

Energy Consumption Mix

Annual Energy Use: 40,680 kWh

Utility -2,197 kWh (0.00%)
 Solar PV 42,877 kWh (100.00%)



Solar PV System Cost and Incentives

Solar PV System Cost	\$82,096
Federal Tax Credit	-\$24,629
Solar for Good / Schools	-\$8,751
(FOE) Special Sector Incentive	-\$13,955
Net Solar PV System Cost	\$34,761



Cash Flow Analysis

Years	Cash				Federal Taxes	Total Cash Flow	Cumulative Cash Flow
	Project Costs	Solar for Good / Schools	(FOE) Special Sector Incentive	Electric Bill Savings	Federal Tax Credit		
Upfront	-\$82,096	-	-	-	-	-\$82,096	-\$82,096
1	-	\$8,751	\$13,955	\$3,669	\$24,629	\$51,003	-\$31,093
2	-	-	-	\$3,749	-	\$3,749	-\$27,344
3	-	-	-	\$3,830	-	\$3,830	-\$23,514
4	-	-	-	\$3,913	-	\$3,913	-\$19,602
5	-	-	-	\$3,997	-	\$3,997	-\$15,605
6	-	-	-	\$4,083	-	\$4,083	-\$11,522
7	-	-	-	\$4,170	-	\$4,170	-\$7,351
8	-	-	-	\$4,259	-	\$4,259	-\$3,092
9	-	-	-	\$4,350	-	\$4,350	\$1,258
10	-	-	-	\$4,442	-	\$4,442	\$5,700
11	-	-	-	\$4,536	-	\$4,536	\$10,236
12	-	-	-	\$4,631	-	\$4,631	\$14,868
13	-	-	-	\$4,729	-	\$4,729	\$19,596
14	-	-	-	\$4,827	-	\$4,827	\$24,424
15	-	-	-	\$4,928	-	\$4,928	\$29,351
16	-	-	-	\$5,030	-	\$5,030	\$34,381
17	-	-	-	\$5,134	-	\$5,134	\$39,515
18	-	-	-	\$5,239	-	\$5,239	\$44,754
19	-	-	-	\$5,346	-	\$5,346	\$50,100
20	-	-	-	\$5,455	-	\$5,455	\$55,556
21	-	-	-	\$5,566	-	\$5,566	\$61,121
22	-	-	-	\$5,678	-	\$5,678	\$66,800
23	-	-	-	\$5,792	-	\$5,792	\$72,592
24	-	-	-	\$5,908	-	\$5,908	\$78,500
25	-	-	-	\$6,026	-	\$6,026	\$84,526
Totals:	-\$82,096	\$8,751	\$13,955	\$119,288	\$24,629	\$84,526	-

NPV Discount Rate	5.0%	Total Electric Savings (20yr)	\$119,288
Year 1 kWh Generation	42,877 kWh	Annual Electricity Escalator	3.0%
PV Degredation	0.80%	20 Year IRR	9.1%
Levelized Cost of Electricity	\$0.036/kWh	Total Electric Savings (30yr)	\$151,241

