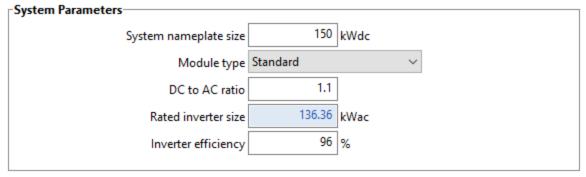
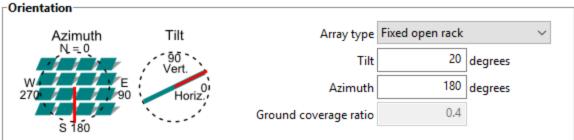
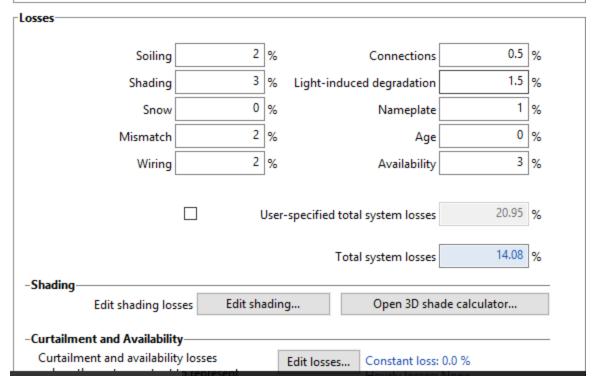
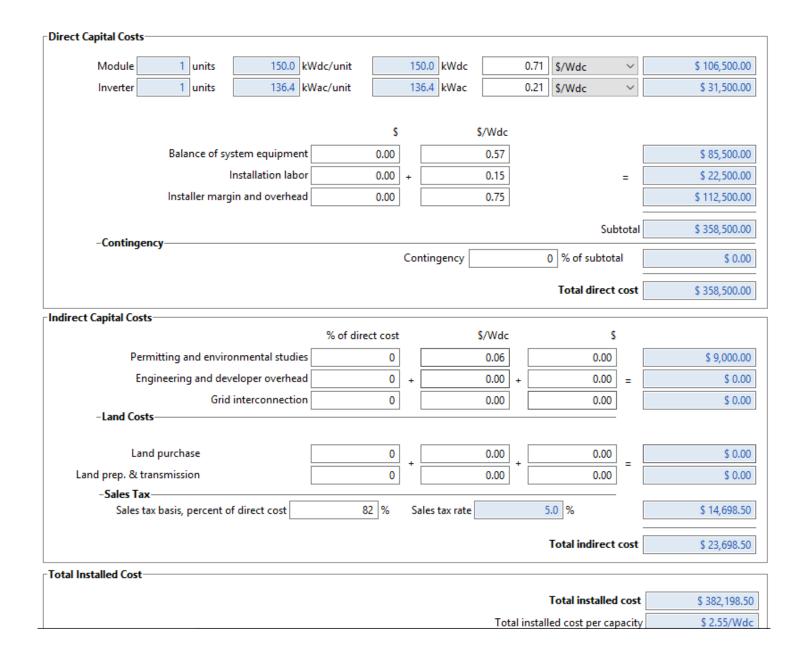
CAPE ELIZABETH HS POOL ELECTRICAL PV

ownload a weather file from	the NREL NSRDE	}						
Download	weather file	from the NREL NS	eet address or latitu RDB for United Stat e to the solar resour	es and some intern	national locations.			
SRDB Map	below.			-				
noose a weather file from the	e solar resource li	brary						_
Click a name in the list to choos	se a file from the lil	orary. Type a few I	etters of the name i	n the search box to	filter the list. If y	our location is not i	n the library, try	,
lownloading a file (see above).								
Search for:	Name	~						
Name			Station ID	Latitude	Longitude	Time zone	Elevation	^
USA MA Worchester (TMY2)			94746	42.2667	-71.8667	-5	301	
USA MA Worchester Regiona	l Arpt (TMY3)		725095	42.267	-71.883	-5	300	
USA MD Andrews Afb (TMY3))		745940	38.817	-76.867	-5	86	
USA MD Baltimore (TMY2)			93721	39.1833	-76.6667	-5	47	
USA MD Baltimore Blt-washn	gtn Int'l (TMY3)		724060	39.167	-76.683	-5	45	
IISA MD Hagerstown Rant Riv	- (TMV2)		72/1066	20 7	-77 722	-5	220	>
						-Tools		
City Portland Intl Jetport		Time zone	GMT -5	Latitude	43.65 °N		w data	
State ME		Elevation	14 m	Longitude	-70.3 °E	Refr	esh library	
Country USA		Data Source	TMY3	Station ID 7	726060	Folde	r settings	
Oata file C:\SAM\2016.3.14\s	olar_resource\USA	ME Portland Intl	Jetport (TMY3).csv			Open li	brary folder	
Annual Weather Data Sumn	nary———					_		
Global horizontal	3.88	kWh/m²/day	Average temp	perature	7.4 °C			
Direct normal (beam)	4.01	kWh/m²/day	Average win	d speed	3.6 m/s			
Diffuse horizontal	1.68	kWh/m²/day				Visit SAM weather	data website	
e a specific weather file on	disk							
7							D	
							Browse	









Debt percent	100 %	Net capital cost \$ 382,198.50 is displayed for reference. SAM does not use the value for calculations.
Loan term	25 years	Debt \$ 382,198.50
Loan rate	5 %/year	WACC 3.35 % For a project with no debt, set the debt peroto to zero.
Analysis Parameters		
Analy	rsis period 25 years	Inflation rate 2.5 %/year
		Real discount rate 5.5 %/year
		Nominal discount rate 8.14 %/year
Tax and Insurance Rates		
Federal income	e tax rate 28 %/year	-Property Tax
State income		Assessed percentage 100 % of installed cost
		Assessed value \$ 382,198.50
	Sales tax 5 % of total di	direct cost Annual decline 0 %/year
Insurance rate	(annual) 0.5 % of installe	led cost Property tax rate 2 %/year
Salvage Value		
Net salva	ge value 0 % of installe	led cost End of analysis period value \$ 0
Depreciation		
Federal		State
○ No depreciation		○ No depreciation
5-yr MACRS		● 5-yr MACRS
O Straight line	7 years	Straight line 7 years
	Edit percentage	ges O Custom Edit percentages

OpenEl U.S. Utility Rate Database							
Download rate structures for electric utility compani a copy of the rate sheet to verify that the informatio		Rate Database. After downloading a rate structure, compare the inputs below with					
Search for rates Go to Open El Utility Rate Database website							
Save / Load Rate Data							
Save / Load Rate Data							
Save rate to file Load rate from fil	e File C:/Projects/SAM	/Documentation/UtilityRates/Flat_rate_updates_2016.3.6/PR_com_UR_2015.6.30.csv					
Metering							
Single meter with monthly rollover credits in kW	h	Year-end sell rate for net metering with kWh credits 0.0289 \$/kWh					
Single meter with monthly rollover credits in \$							
Single meter with no monthly rollover credits		For net metering, choose one of the single-meter options. For two meters, all of the system output is sold to the grid and all of the load is supplied by the					
Two meters with all generation sold and all load	purchased	grid. See Help for details.					
Monthly Charge	Annual Electricity Cost Escalation	on-					
Fixed monthly charge 39.72 \$	Electricity cost esc	alation rate 0 %/yr					
Minimum Charges	In Value mode SAM applies bo	th escalation and inflation to the total first-year electricity cost to calculate the annual					
Monthly minimum charge 0 \$		Schedule mode, inflation does not apply. See Help for details.					
Annual minimum charge 0 \$							

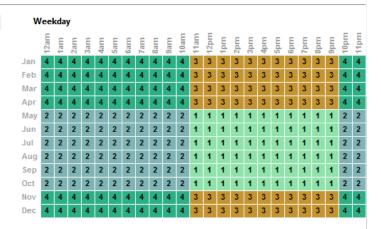


Rate Structure for Energy Rates

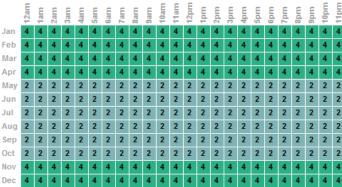
Import	Period	Tier	Max. Usage	Max. Usage Units	Buy (\$/kWh)	Sell (\$/kWh)
•	1	1	1e+038	kWh	0.078462	0.078462
Export	2	1	1e+038	kWh	0.066502	0.066502
Сору	3	1	1e+038	kWh	0.064842	0.064842
Сору	4	1	1e+038	kWh	0.052882	0.052882

Paste Number of entries:

	4



Weekend



☑ Enable demand charges

Demand Rates by Month with Optional Tiers-

Import	Month	Tier	Peak (kW)	Charge (\$/kW)
•	Jan	1	1e+038	0
Export	Feb	1	1e+038	0
Сору	Mar	1	1e+038	0
сору	Apr	1	1e+038	0
Paste	May	1	1e+038	0
Number entries:	Jun	1	1e+038	0
12	Jul	1	1e+038	0
12	Aug	1	1e+038	0
	Sep	1	1e+038	0
	Oct	1	1e+038	0
	Nov	1	1e+038	0
	Dec	1	1e+038	0

Demand Rates by Time-of-use Period and/or Tiers

Import	Period	Tier	Peak (kW)	Charge (\$/kW)
•	_ 1	1	100	16.7315
Export	1	2	1e+038	11.6005
Сору	2	1	100	7.0005
	2	2	1e+038	4.9135
Paste				

Number of entries:

		4

Weekday

	12am	1am	2am	3am	4am	Sam	6am	7am	8am	9am	10am	11am	12pm	1pm	2pm
Jan	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Feb	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Mar	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Apr	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
May	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Jun	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Jul	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Aug	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Sep	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Oct	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Nov	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1
Dec	2	2	2	2	2	2	2	2	2	2	2	1	1	1	1

Weekend

	12am	1am	2am	3am	4am	Sam	6am	7am	8am	9am	10am	11am	12pm	1pm	2pm
Jan	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Feb	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Mar	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Apr	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
May	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Jun	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Jul	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Aug	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Sep	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Oct	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Nov	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Dec	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

Input Time Series Load Data 🗸

Electric Load Data			
1	Energy usage	Edit data	kW Normalize supplied load profile to monthly utility bill data
Scaling fact	tor (optional)		1 Monthly energy usage Edit values kWh
			View load data
			THE TOTAL GALLANI
-Monthly Load Summa	гу		-Annual Adjustment
	Energy (kWh)	Peak (kW)	Load growth rate Value 0 %/yr
Jan	493,720.81	1,505.22	
Feb	485,226.50	1,559.07	In Value mode, the growth rate applies to the previous year's annual kWh load starting in Year 2. In Schedule
Mar	580,314.94	1,557.35	mode, each year's rate applies to the Year 1 kWh value. See Help for details.
Apr	601,906.88	1,586.85	see neip for details.
May	688,796.44	1,639.37	
Jun	760,530.00	1,646.96	
Jul	801,503.63	1,661.34	
Aug	814,901.00	1,687.62	
Sep	720,793.63	1,665.95	
Oct	664,864.06	1,632.44	
Nov	566,944.44	1,592.84	
Dec	466,793.09	1,496.21	
Annual	7,646,295.50	1,687.62	
	.,010,233130	1,007102	