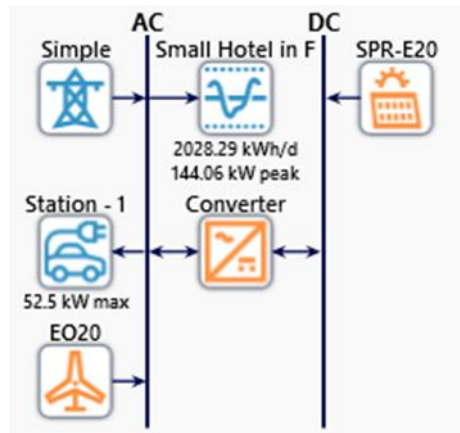


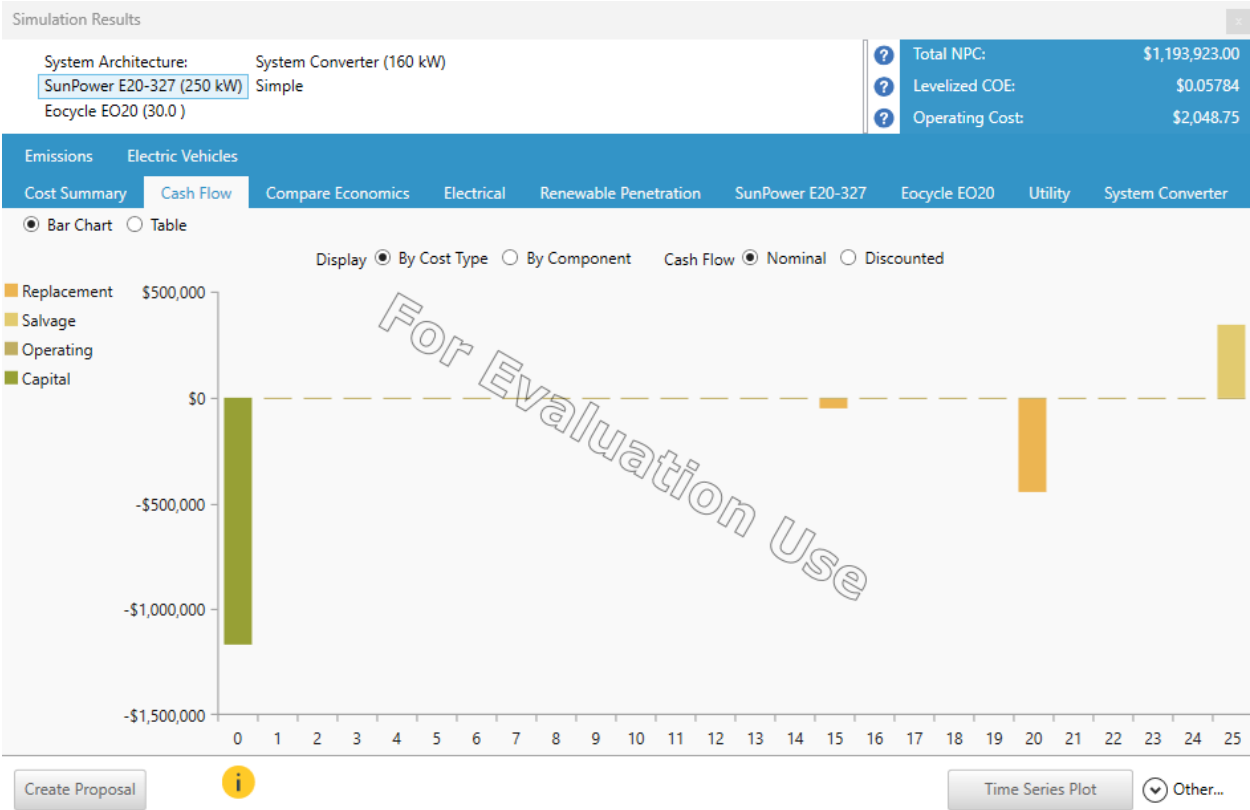
Total System



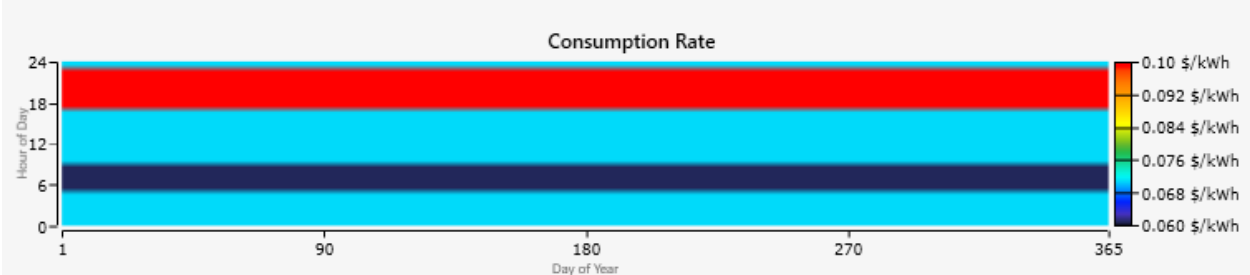
Annual Utility Bill Summary

Annual Utility Bill Summary	
Consumption Charge	\$82,558
Demand Charge	\$1,417
Demand Response	\$0.00
Fixed Rate	\$0.00
Minimum Rate	\$0.00
Taxes	\$0.00
Total	\$83,975

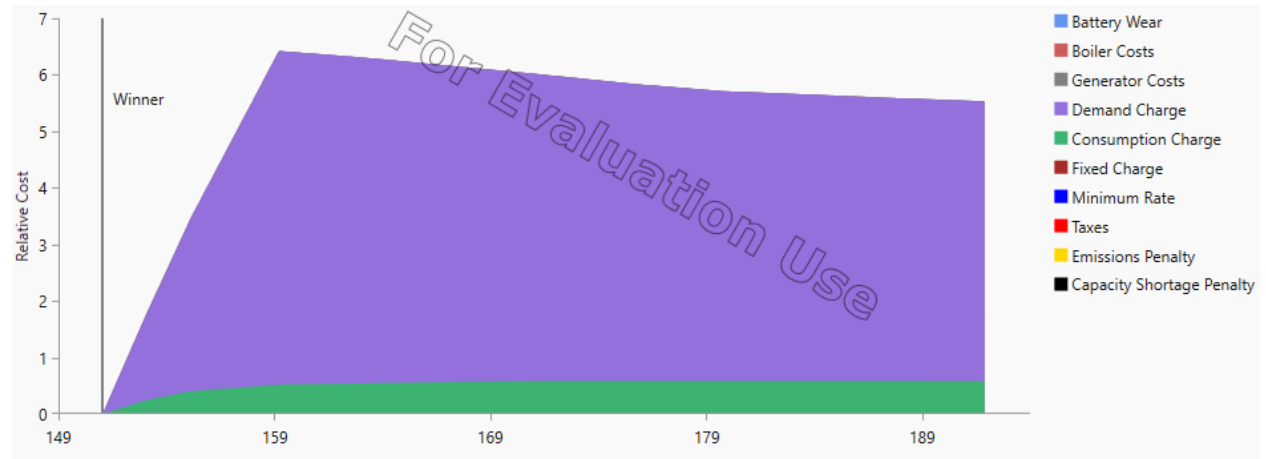
Cash Flow



Consumption



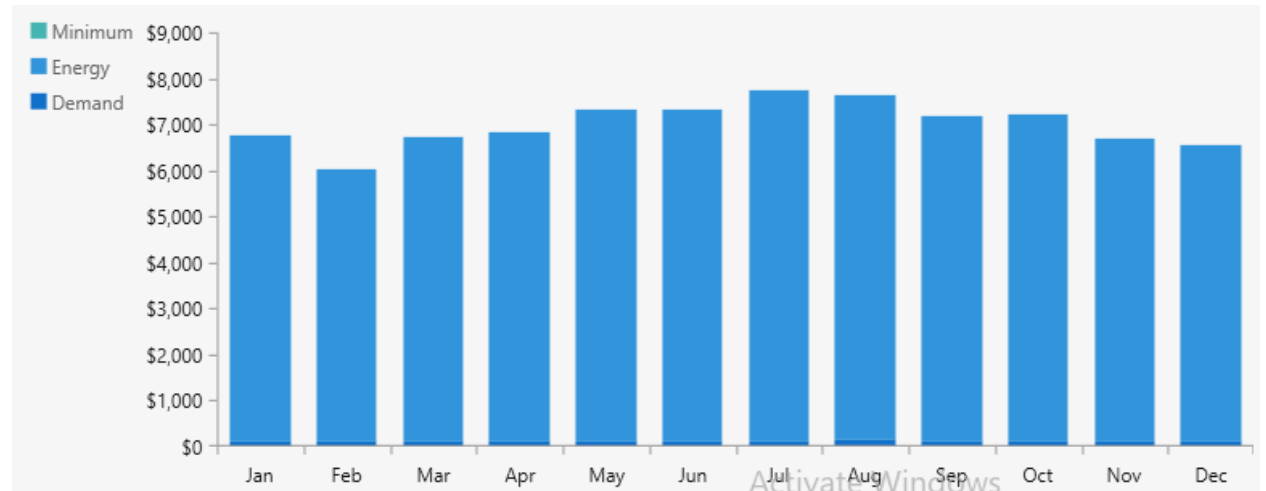
Demand limit



Demand Rate



Demand



Electrical rates

Simulation Results

System Architecture:
SunPower E20-327 (250 kW)
Eocycle EO20 (30.0)

System Converter (160 kW)
Simple

?

Total NPC:

\$1,193,923.00

?

Levelized COE:

\$0.05784

?

Operating Cost:

\$2,048.75

Emissions

Electric Vehicles

Cost Summary

Cash Flow

Compare Economics

Electrical

Renewable Penetration

SunPower E20-327

Eocycle EO20

Utility

System Converter

Production	kWh/yr	%
SunPower E20-327	386,779	19.2
Eocycle EO20	1,246,102	61.8
Grid Purchases	382,741	19.0
Total	2,015,622	100

Consumption	kWh/yr	%
AC Primary Load	740,327	37.4
Grid Sales	922,980	46.6
EV Charger Served	317,276	16.0
Total	1,980,583	100

Quantity	kWh/yr	%
Excess Electricity	16,526	0.820

Quantity	Value	Units
Renewable Fraction	80.7	%
Max. Renew. Penetration	1,706	%

Monthly Electric Production

Month	Utility (MWh)	SPR-E20 (MWh)	EO20 (MWh)	Total (MWh)
Jan	60	30	110	200
Feb	50	30	90	170
Mar	50	30	90	170
Apr	50	30	60	140
May	60	30	100	190
Jun	40	30	140	210
Jul	30	30	170	230
Aug	40	40	150	230
Sep	60	30	80	170
Oct	50	30	50	130
Nov	50	30	80	160
Dec	60	30	100	190

Create Proposal

i

Time Series Plot

Other...

Renewable Penetration

Simulation Results

System Architecture:
SunPower E20-327 (250 kW)
Eocycle EO20 (30.0)

System Converter (160 kW)
Simple

?

Total NPC:

\$1,193,923.00

?

Levelized COE:

\$0.05784

?

Operating Cost:

\$2,048.75

Emissions

Electric Vehicles

Cost Summary

Cash Flow

Compare Economics

Electrical

Renewable Penetration

SunPower E20-327

Eocycle EO20

Utility

System Converter

Capacity-based metrics

Value

Units

Nominal renewable capacity divided by total nominal capacity

100

%

Usable renewable capacity divided by total capacity

100

%

Energy-based metrics

Value

Units

Total renewable production divided by load

82.4

%

Total renewable production divided by generation

81.0

%

One minus total nonrenewable production divided by load

100

%

Peak values

Value

Units

Renewable output divided by load (HOMER standard)

937

%

Renewable output divided by total generation

100

%

One minus nonrenewable output divided by total load

100

%

Instantaneous Renewable Output Divided by Load

Instantaneous Renewable Output Divided by Generation

One Minus Instantaneous Nonrenewable Divided by Load

Create Proposal

i

Time Series Plot

Other...

Emissions

Simulation Results

System Architecture: System Converter (160 kW)
SunPower E20-327 (250 kW) Simple
Eocycle EO20 (30.0)

?

Total NPC:\$1,193,923.00

?

Levelized COE:\$0.05784

?

Operating Cost:\$2,048.75

Cost SummaryCash FlowCompare EconomicsElectricalRenewable PenetrationSunPower E20-327Eocycle EO20UtilitySystem Converter

EmissionsElectric Vehicles

Quantity	Value	Units
Carbon Dioxide	-341,431	kg/yr
Carbon Monoxide	0	kg/yr
Unburned Hydrocarbons	0	kg/yr
Particulate Matter	0	kg/yr
Sulfur Dioxide	-1,480	kg/yr
Nitrogen Oxides	-724	kg/yr

Create Proposal

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Time Series Plot

▼

Other...

System Converter

Simulation Results

System Architecture: System Converter (160 kW)
SunPower E20-327 (250 kW) Simple
Eocycle EO20 (30.0)

?

Total NPC: \$1,193,923.00

?

Levelized COE: \$0.05784

?

Operating Cost: \$2,048.75

Emissions

Electric Vehicles

Cost Summary

Cash Flow

Compare Economics

Electrical

Renewable Penetration

SunPower E20-327

Eocycle EO20

Utility

System Converter

Quantity	Inverter	Rectifier	Units
Capacity	160	160	kW
Mean Output	40.2	0	kW
Minimum Output	0	0	kW
Maximum Output	160	0	kW
Capacity Factor	25.1	0	%

Quantity	Inverter	Rectifier	Units
Hours of Operation	4,369	0	hrs/yr
Energy Out	351,740	0	kWh/yr
Energy In	370,253	0	kWh/yr
Losses	18,513	0	kWh/yr

Inverter Output



Rectifier Output



Create Proposal

i

Time Series Plot

Other...

Create Proposal



Time Series Plot

Other...

Utility

Simulation Results

System Architecture: System Converter (160 kW)
SunPower E20-327 (250 kW) Simple
Eocycle EO20 (30.0)

?	Total NPC:	\$1,193,923.00
?	Levelized COE:	\$0.05784
?	Operating Cost:	\$2,048.75

Emissions Electric Vehicles

Cost Summary	Cash Flow	Compare Economics	Electrical	Renewable Penetration	SunPower E20-327	Eocycle EO20	Utility	System Converter
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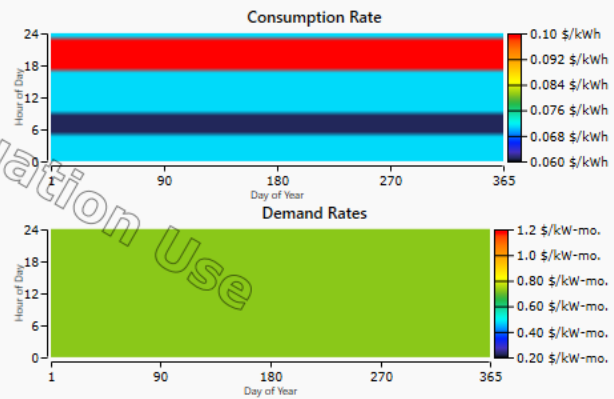
☒ Annual ☐ Monthly Graph ☐ Monthly Table ☐ Demand Limits

Name: Simple Tariff

Master Tariff Id: 10000000

Annual Utility Bill Comparison

	Base Case Simple	Current Case Simple	Savings
Consumption Charge	\$82,557.95	-\$15,325.90	\$97,883.86
Demand Charge	\$1,417.44	\$1,410.31	\$7.13
Demand Response	\$0	\$0	\$0
Fixed Rate	\$0	\$0	\$0
Minimum Rate	\$0	\$0	\$0
Taxes	\$0	\$0	\$0
Total	\$83,975.39	-\$13,915.59	\$97,890.98



You may choose a different base case in the Compare Economics tab.

Utility Bill Details

[Create Proposal](#)

Time Series Plot

Other...

Cost Summary

Simulation Results

System Architecture: System Converter (160 kW)
SunPower E20-327 (250 kW) Simple
Eocycle EO20 (30.0)

?

Total NPC: \$1,193,923.00

?

Levelized COE: \$0.05784

?

Operating Cost: \$2,048.75

Emissions

Electric Vehicles

Cost Summary

Cash Flow

Compare Economics

Electrical

Renewable Penetration

SunPower E20-327

Eocycle EO20

Utility

System Converter

Cost Type

☒ Net Present

☐ Annualized

Categorize

☒ By Component

☐ By Cost Type

Component	Capital (\$)	Replacement (\$)	O&M (\$)	Fuel (\$)	Salvage (\$)	Total (\$)
Eocycle EO20	\$882,000.00	\$140,594.04	\$341,286.44	\$0.00	-\$79,233.76	\$1,284,646.72
Overnight Fleet Charger (Level 3, Deferrable) (1)	\$0.00	\$0.00	-\$287,111.33	\$0.00	\$0.00	-\$287,111.33
Simple Tariff	\$0.00	\$0.00	-\$179,894.02	\$0.00	\$0.00	-\$179,894.02
SunPower E20-327	\$237,500.00	\$0.00	\$74,333.22	\$0.00	\$0.00	\$311,833.22
System Converter	\$47,937.50	\$20,338.63	\$0.00	\$0.00	-\$3,827.93	\$64,448.19
System	\$1,167,437.50	\$160,932.67	-\$51,385.70	\$0.00	-\$83,061.69	\$1,193,922.78

Create Proposal

i

Time Series Plot

Other...

PV

Simulation Results

System Architecture: System Converter (160 kW)
SunPower E20-327 (250 kW) Simple
Eocycle EO20 (30.0)

? Total NPC: \$1,193,923.00
? Levelized COE: \$0.05784
? Operating Cost: \$2,048.75

Emissions Electric Vehicles

Cost Summary Cash Flow Compare Economics Electrical Renewable Penetration SunPower E20-327 Eocycle EO20 Utility System Converter

Quantity	Value	Units
Rated Capacity	250	kW
Mean Output	44.2	kW
Mean Output	1,060	kWh/d
Capacity Factor	17.7	%
Total Production	386,779	kWh/yr

Quantity	Value	Units
Minimum Output	0	kW
Maximum Output	241	kW
PV Penetration	52.2	%
Hours of Operation	4,369	hrs/yr
Levelized Cost	0.0624	\$/kWh
Clipped production	0	kWh

PV Power Output

Hour of Day

Day of Year

Create Proposal

i

Time Series Plot

Other...

For Evaluation

Wind Turbine

Simulation Results

System Architecture:
SunPower E20-327 (250 kW)
Eocycle EO20 (30.0)

System Converter (160 kW)
Simple

?

Total NPC:\$1,193,923.00

?

Levelized COE:\$0.05784

?

Operating Cost:\$2,048.75

Emissions

Electric Vehicles

Cost Summary

Cash Flow

Compare Economics

Electrical

Renewable Penetration

SunPower E20-327

Eocycle EO20

Utility

System Converter

Quantity	Value	Units
Total Rated Capacity	600	kW
Mean Output	142	kW
Capacity Factor	23.7	%
Total Production	1,246,102	kWh/yr

Quantity	Value	Units
Minimum Output	0	kW
Maximum Output	600	kW
Wind Penetration	168	%
Hours of Operation	6,155	hrs/yr
Levelized Cost	0.0797	\$/kWh

Wind Turbine Power Output

Create Proposal

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Time Series Plot

Other...