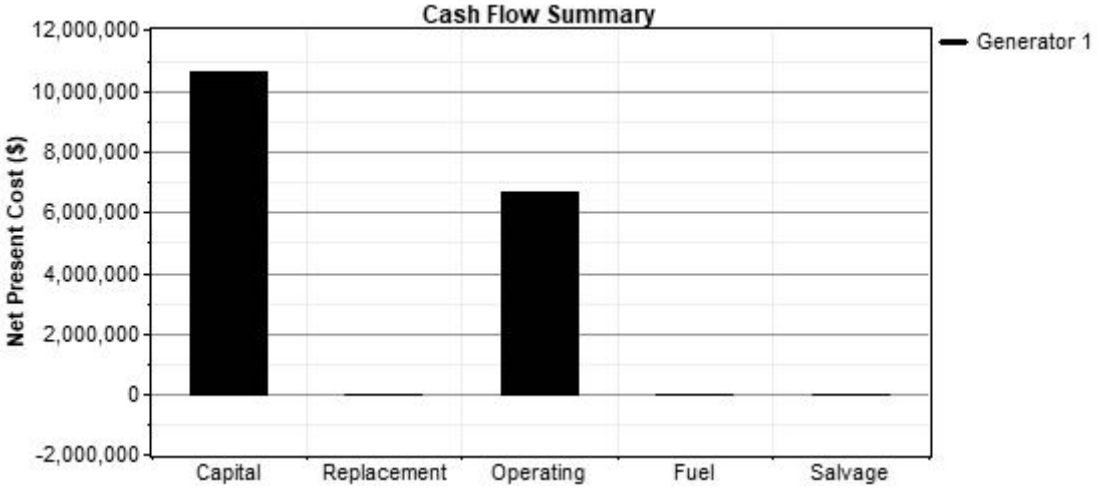
System Report - Bertoni.hmr

System architecture

Generator 1 6,640 kW

Cost summary

Total net present cost	$ 17,296,622
Levelized cost of energy	$ 0.551/kWh
Operating cost	$ 7,006,253/yr

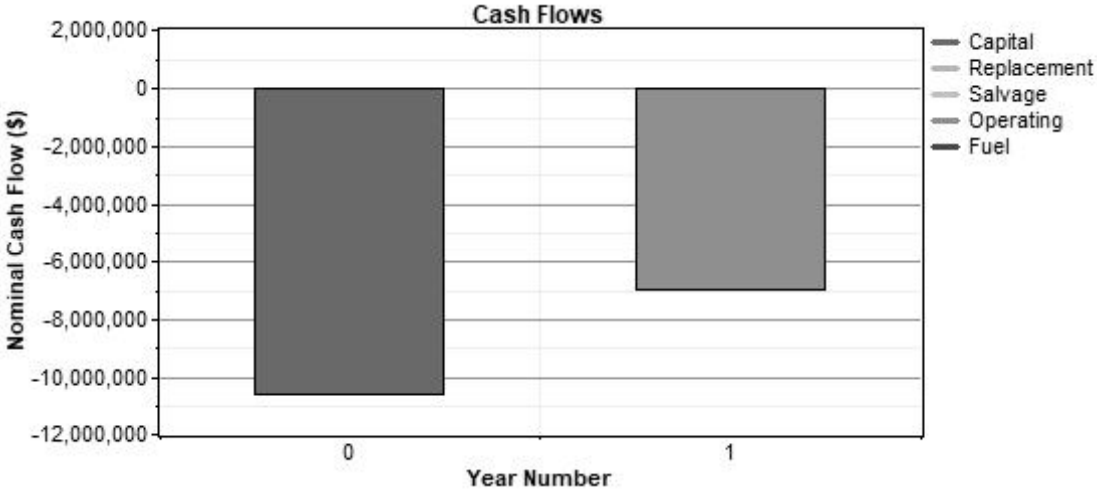


Net Present Costs

Component	Capital	Replacement	O&M	Fuel	Salvage	Total
	($)	($)	($)	($)	($)	($)
Generator 1	10,624,000	0	6,673,524	0	-903	17,296,622
System	10,624,000	0	6,673,524	0	-903	17,296,622

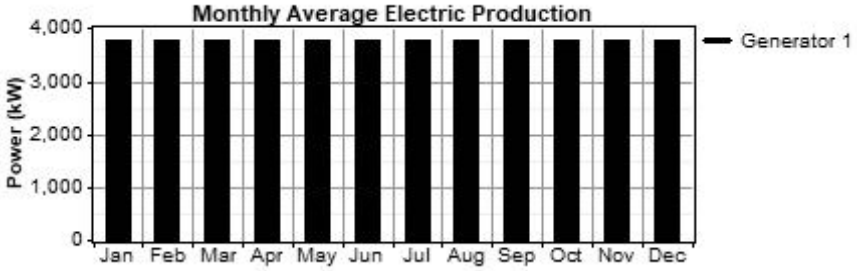
Annualized Costs

Component	Capital	Replacement	O&M	Fuel	Salvage	Total
	($/yr)	($/yr)	($/yr)	($/yr)	($/yr)	($/yr)
Generator 1	11,155,199	0	7,007,200	0	-948	18,161,452
System	11,155,199	0	7,007,200	0	-948	18,161,452



Electrical

Component	Production	Fraction
	(kWh/yr)	
Generator 1	32,953,850	100%
Total	32,953,850	100%



Load	Consumption	Fraction
	(kWh/yr)	
AC primary load	32,953,850	100%
Total	32,953,850	100%

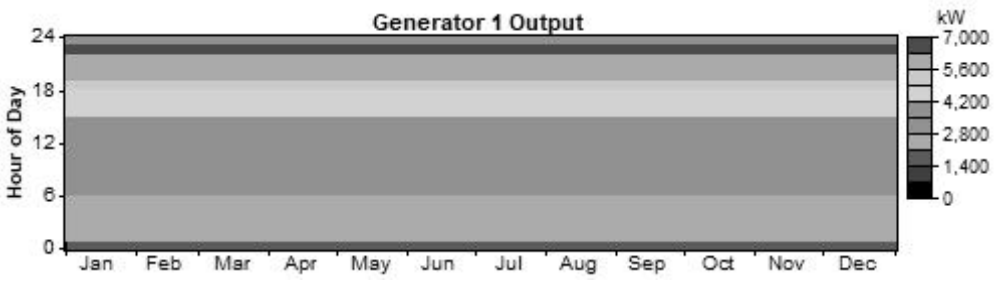
Quantity	Value	Units
Excess electricity	0.00	kWh/yr
Unmet load	2,000	kWh/yr
Capacity shortage	2,000	kWh/yr
Renewable fraction	1.000	

Generator 1

Quantity	Value	Units
Hours of operation	8,759	hr/yr
Number of starts	1	starts/yr
Operational life	1.00	yr
Capacity factor	56.7	%
Fixed generation cost	1,747	$/hr
Marginal generation cost	0.00	$/kWhyr

Quantity	Value	Units
Electrical production	32,953,850	kWh/yr
Mean electrical output	3,762	kW
Min. electrical output	2,000	kW
Max. electrical output	6,440	kW

Quantity	Value	Units
Bio. feedstock consump.	21,015	t/yr
Specific fuel consumption	0.446	kg/kWh
Fuel energy input	108,001,416	kWh/yr
Mean electrical efficiency	30.5	%



Emissions

Pollutant	Emissions (kg/yr)
Carbon dioxide	48,373
Carbon monoxide	137
Unburned hydocarbons	15.1
Particulate matter	10.3
Sulfur dioxide	0
Nitrogen oxides	1,219