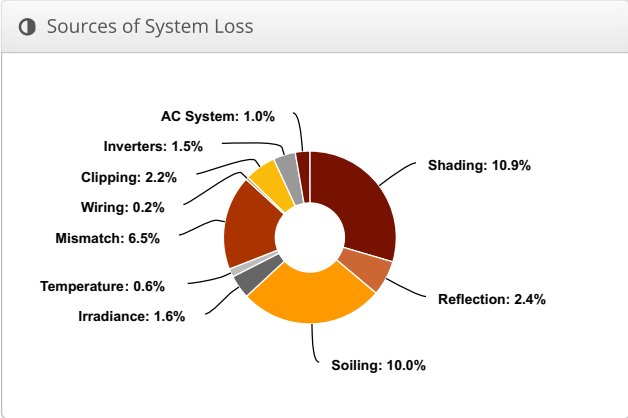
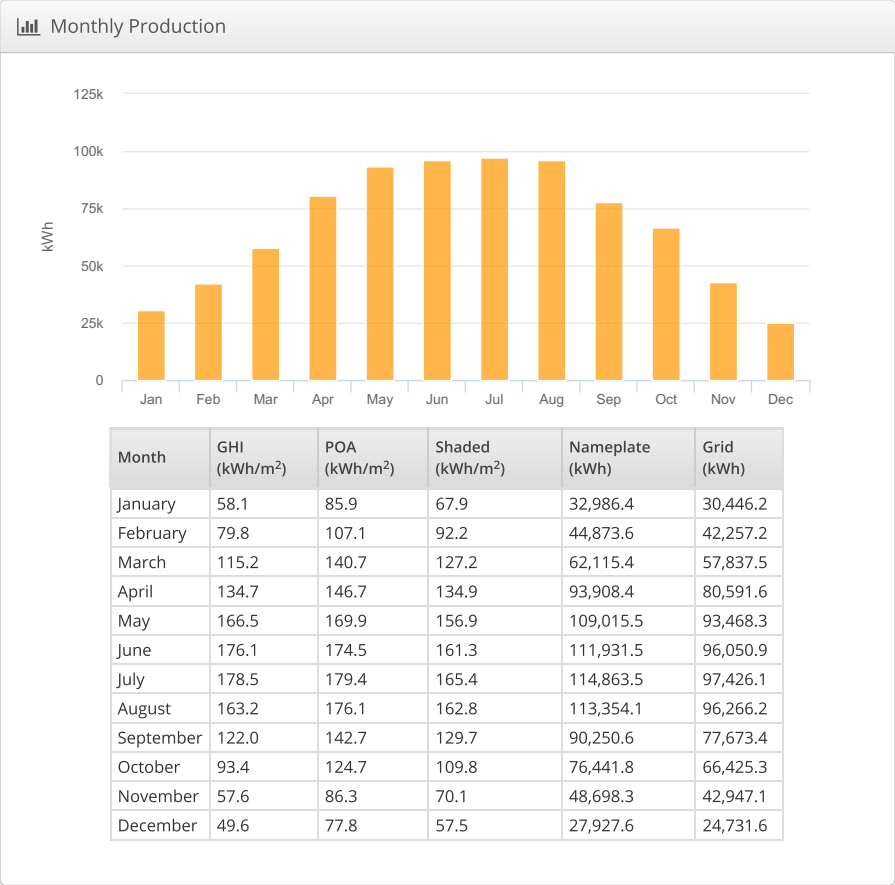
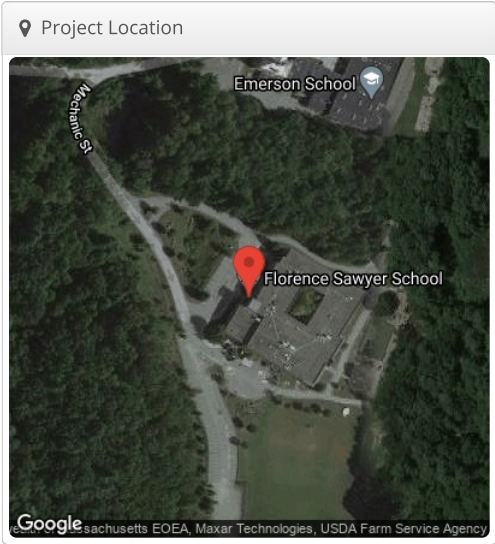


GM Bolton Leachfield - 6600, 100 Mechanic St, Bolton, MA 01740

Report	
Project Name	Bolton Leachfield - 6600
Project Address	100 Mechanic St, Bolton, MA 01740
Prepared By	Deep Shamani

System Metrics	
Design	GM
Module DC Nameplate	730.2 kW
Inverter AC Nameplate	498.0 kW Load Ratio: 1.47
Annual Production	806.1 MWh
Performance Ratio	68.5%
kWh/kWp	1,104.0
Weather Dataset	TMY, WORCHESTER REGIONAL ARPT, NSRDB (tmy3, I)
Simulator Version	f1b892f541-0c5ba8e2fe-3cbc5ee0fd-b581ea31fb



⚡ Annual Production			
	Description	Output	% Delta
Irradiance (kWh/m²)	Annual Global Horizontal Irradiance	1,394.7	
	POA Irradiance	1,611.7	15.6%
	Shaded Irradiance	1,435.8	-10.9%
	Irradiance after Reflection	1,400.9	-2.4%
	Irradiance after Soiling	1,261.4	-10.0%
	Total Collector Irradiance	1,261.2	0.0%
Energy (kWh)	Nameplate	926,366.7	
	Output at Irradiance Levels	911,303.8	-1.6%
	Output at Cell Temperature Derate	906,068.1	-0.6%
	Output After Mismatch	846,770.0	-6.5%
	Optimal DC Output	845,245.6	-0.2%
	Constrained DC Output	826,939.2	-2.2%
	Inverter Output	814,264.1	-1.5%
	Energy to Grid	806,121.5	-1.0%
Temperature Metrics			
Avg. Operating Ambient Temp		10.8 °C	
Avg. Operating Cell Temp		16.9 °C	
Simulation Metrics			
Operating Hours		4729	
Solved Hours		4729	

☁ Condition Set												
Description	Safari											
Weather Dataset	TMY, WORCHESTER REGIONAL ARPT, NSRDB (tmy3, I)											
Solar Angle Location	Project Lat/Lng											
Transposition Model	Perez Model											
Temperature Model	Sandia Model											
Temperature Model Parameters	Rack Type			a		b			Temperature Delta			
	Fixed Tilt			-3.56		-0.075			3°C			
	Flush Mount			-2.81		-0.0455			0°C			
Soiling (%)	J	F	M	A	M	J	J	A	S	O	N	D
	32	32	32	3	3	3	3	3	3	3	3	32
Irradiation Variance	5%											
Cell Temperature Spread	4° C											
Module Binning Range	0% to 1.1%											
AC System Derate	1.00%											
Module Characterizations	Module					Uploaded By		Characterization				
	Q.PEAK DUO L-G6.2 425 (Hanwha Q Cells)					Solect		Qcells_QPEAK_DUO_L-G6.2_425_Rev4.PAN, PAN				
Component Characterizations	Device							Uploaded By		Characterization		
	Solectria XGI 1500-166/166 (Yaskawa)							Folsom Labs		Spec Sheet		

📦 Components		
Component	Name	Count
Inverters	Solectria XGI 1500-166/166 (Yaskawa)	3 (498.0 kW)
Strings	10 AWG (Copper)	67 (13,466.9 ft)
Module	Hanwha Q Cells, Q.PEAK DUO L-G6.2 425 (425W)	1,718 (730.2 kW)

🔌 Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	12	24-26	Along Racking

🏠 Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Fixed Tilt	Portrait (Vertical)	25°	180°	12.0 ft	2x1	859	1,718	730.2 kW

 Detailed Layout

