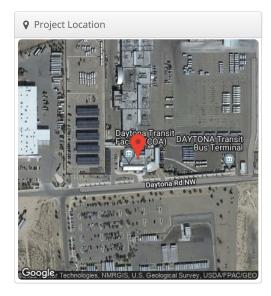


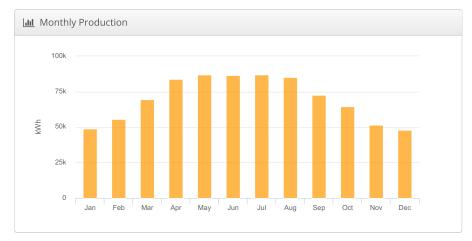
## 471 kW Carport and Shade Structures COA ABQ CITY TRANSIT, 8001 Daytona Rd NE,

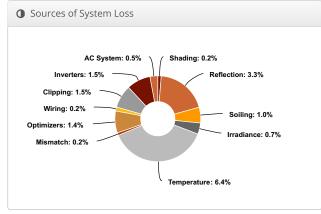
## Albuquerque NM

& Report	
Project Name	COA ABQ CITY TRANSIT
Project Address	8001 Daytona Rd NE, Albuquerque NM
Prepared By	Zach Johnson zach@sollunasolar.com

Lill System Metrics						
Design	471 kW Carport and Shade Structures					
Module DC Nameplate	471.2 kW					
Inverter AC Nameplate	399.6 kW Load Ratio: 1.18					
Annual Production	840.7 MWh					
Performance Ratio	84.2%					
kWh/kWp	1,784.3					
Weather Dataset	TMY, ALBUQUERQUE INTL ARPT [ISIS], NSRDB (tmy3, I)					
Simulator Version	7360b54764-fb86b8fc1e-b3fa9ed0c1- 966979ea93					







	Description	Output	% Delta			
	Annual Global Horizontal Irradiance	1,980.4				
	POA Irradiance	2,119.5	7.09			
Irradiance	Shaded Irradiance	2,114.9	-0.29			
(kWh/m²)	Irradiance after Reflection	2,045.5	-3.39			
	Irradiance after Soiling	2,025.0	-1.09			
	Total Collector Irradiance	2,025.0	0.09			
Energy (kWh)	Nameplate	954,221.2				
	Output at Irradiance Levels	947,420.7	-0.79			
	Output at Cell Temperature Derate	886,778.2	-6.49			
	Output After Mismatch	885,326.9	-0.29			
	Optimizer Output	872,924.9	-1.49			
	Optimal DC Output	870,751.4	-0.29			
	Constrained DC Output	857,990.9	-1.59			
	Inverter Output	844,969.7	-1.59			
	Energy to Grid	840,744.8	-0.5%			
Temperature M	letrics					
	Avg. Operating Ambient Temp		17.3 °			
Avg. Operating Cell Temp						
Simulation Met	rics					
	Operating Hours					
Solved Hours						



Condition Se	t												
Description	Condition Set 1												
Weather Dataset	TMY,	TMY, ALBUQUERQUE INTL ARPT [ISIS], NSRDB (tmy3, I)											
Solar Angle Location	Meteo Lat/Lng												
Transposition Model	Perez	Perez Model											
Temperature Model	Diffu:	Diffusion Model											
	Rack Type					U <sub>const</sub>			U <sub>wind</sub>				
	Fixed	d Tilt					29			0			
Temperature Model Parameters	Flush Mount						15			0	0		
	East-	West					29			0			
	Carport						24			0			
Soiling (%)	J	F	M	Α	M	J	J	Α	S	0	N	D	
	1	1	1	1	1	1	1	1	1	1	1	1	
Irradiation Variance	5%												
Cell Temperature Spread	4° C	4° C											
Module Binning Range	-2.5%	-2.5% to 2.5%											
AC System Derate	0.50%	6											
Module Characterizations	Module Uploaded By					Characterization							
	CS3U- 380MS							.PAN,					
Component Characterizations	Devi	Device Uploaded By Characterization											

⊖ Components						
Component	Name	Count				
Inverters	SE66.6KUS (SolarEdge)	6 (399.6 kW)				
Strings	10 AWG (Copper)	31 (3,184.2 ft)				
Optimizers	P800S (SolarEdge)	620 (496.0 kW)				
Module	Canadian Solar Inc., CS3U-380MS 1500V (380W)	1,240 (471.2 kW)				

♣ Wiring Zones			
Description	n Combiner Poles		Stringing Strategy
Wiring Zone	-	13-40	Along Racking
Wiring Zone 2	-	13-40	Along Racking

<b>Ⅲ</b> Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1 (copy 10)	Carport	Landscape (Horizontal)	10°	180°	0.1 ft	1x1	216	216	82.1 kW
Field Segment 1 (copy 12)	Carport	Landscape (Horizontal)	10°	180°	0.1 ft	1x1	216	216	82.1 kW
Field Segment 1 (copy 11)	Carport	Landscape (Horizontal)	10°	180°	0.1 ft	1x1	216	216	82.1 kW
Field Segment 1 (copy 13)	Carport	Landscape (Horizontal)	10°	180°	0.1 ft	1x1	216	216	82.1 kW
Field Segment 1 (copy 14)	Carport	Landscape (Horizontal)	10°	180°	0.1 ft	1x1	216	216	82.1 kW
Field Segment 6	Carport	Landscape (Horizontal)	10°	90°	0.1 ft	1x1	160	160	60.8 kW



