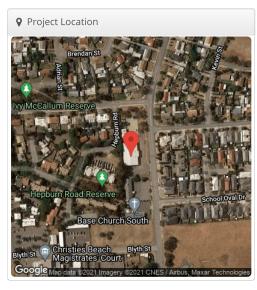
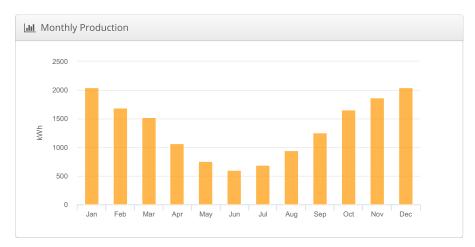


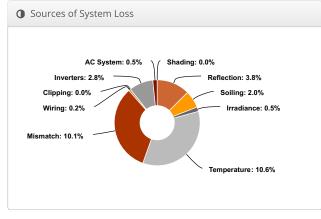
## Design 1 Onkaparinga - Wardli Youth Centre, 13 McKinna Rd, Christie Downs SA 5164



Lill System Metrics							
Design	Design 1						
Module DC Nameplate	12.2 kW						
Inverter AC Nameplate	12.5 kW Load Ratio: 0.98						
Annual Production	16.12 MWh						
Performance Ratio	72.8%						
kWh/kWp	1,320.6						
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)						
Simulator Version	125ee4a60d-4598ccbfde-ddff206053- 649f60a15b						







	Description	Output	% Delta						
	Annual Global Horizontal Irradiance	1,789.9							
	POA Irradiance	1,813.2	1.3%						
Irradiance	Shaded Irradiance	1,813.0	0.0%						
(kWh/m²)	Irradiance after Reflection	1,743.9	-3.8%						
	Irradiance after Soiling	1,709.0	-2.0%						
	Total Collector Irradiance	1,711.1	0.1%						
	Nameplate	20,899.4							
	Output at Irradiance Levels	20,792.6	-0.5%						
	Output at Cell Temperature Derate	18,584.5	-10.6%						
Energy (kWh)	Output After Mismatch	16,705.9	-10.1%						
	Optimal DC Output	16,668.8	-0.2%						
	Constrained DC Output	16,668.5	0.0%						
	Inverter Output	16,205.5	-2.8%						
	Energy to Grid	16,124.5	-0.5%						
Temperature M	etrics								
	Avg. Operating Ambient Temp		19.1 °C						
Avg. Operating Cell Temp									
Simulation Met	rics								
Operating Hours									
Solved Hours									

<b>▲</b> Condition Set															
Description	Condition Set 1														
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)														
Solar Angle Location	Mete	Meteo Lat/Lng													
Transposition Model	Pere:	Perez Model													
Temperature Model	Sand	ia Mc	del												
	Rack Type				a			b			Temperature Delta				
Temperature Model Parameters	Fixed Tilt				-3	-3.56		-0.075			3°	С			
	Flus	h Moı	unt		-2	-2.81		-0.0455			0°C				
Soiling (%)	J	F	M		Α	M		J	J		Α	S	0	N	D
	2	2	2		2	2		2	2		2	2	2	2	2
Irradiation Variance	5%														
Cell Temperature Spread	4° C														
Module Binning Range	-2.5%	6 to 2.	.5%												
AC System Derate	0.509	%													
Module Characterizations	Module						U B	pload y	ed	Characterization					
	LR4-60HPH-370M (Longi Solar)									Spec Sheet Characterization, PAN					
Component	Device Uploaded By Characterization									ation					
Characterizations	SYMO 12.5-3-M (Jan 2016) (Fronius)							Folsom Labs				CEC			



☐ Components										
Component	Name	Count								
Inverters	SYMO 12.5-3-M (Jan 2016) (Fronius)	1 (12.5 kW)								
Strings	10 AWG (Copper)	2 (18.9 m)								
Module	Longi Solar, LR4-60HPH-370M (370W)	33 (12.2 kW)								

♣ Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone		10-22	Along Racking

<b>Ⅲ</b> Field Segments											
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power		
Field Segment 1	Flush Mount	Portrait (Vertical)	15°	86.49329°	0.0 m	1x1	22	22	8.14 kW		
Field Segment 2	Flush Mount	Portrait (Vertical)	15°	266.493°	0.0 m	1x1	11	11	4.07 kW		

