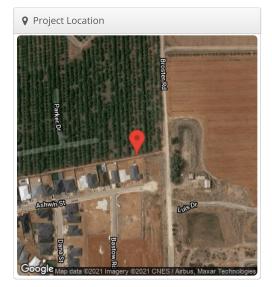
Angle Vale School Building G AS Built Angle Vale School Building G AS Built, 23 Riverbanks Rd,

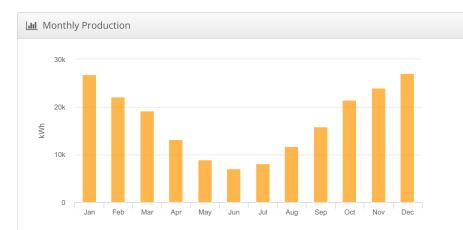
Angle Vale SA 5117, Australia

🖋 Report	
Project Name	Angle Vale School Building G AS Built
Project Address	23 Riverbanks Rd, Angle Vale SA 5117, Australia
Prepared By	Peter Smith chris.bull@westsidegroup.com.au

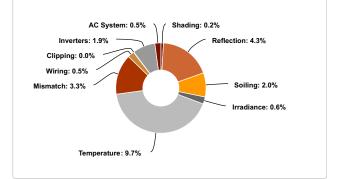


III System Metrics						
Design	Angle Vale School Building G AS Built					
Module DC Nameplate	150.3 kW					
Inverter AC Nameplate	119.6 kW Load Ratio: 1.26					
Annual Production	205.4 MWh					
Performance Ratio	78.8%					
kWh/kWp	1,366.3					
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)					
Simulator Version	f32791ae32-2bc0e40f0c-8e3c28cfc5- f831c3d7b8					





• Sources of System Loss



	Description	Output	% Delta
	Annual Global Horizontal Irradiance	1,799.3	
Irradiance	POA Irradiance	1,732.9	-3.7
	Shaded Irradiance	1,729.2	-0.2
(kWh/m²)	Irradiance after Reflection	1,654.7	-4.3
	Irradiance after Soiling	1,621.6	-2.0
	Total Collector Irradiance	1,621.6	0.0
	Nameplate	243,871.0	
	Output at Irradiance Levels	242,444.6	-0.6
	Output at Cell Temperature Derate	218,845.4	-9.7
Energy	Output After Mismatch	211,531.4	-3.3
(kWh)	Optimal DC Output	210,386.2	-0.5
	Constrained DC Output	210,312.9	0.0
	Inverter Output	206,387.4	-1.9
	Energy to Grid	205,355.5	-0.5
Temperature	Metrics		
	Avg. Operating Ambient Temp		19.5
	Avg. Operating Cell Temp		36.6
Simulation M	etrics		
		Operating Hours	45
		Solved Hours	45

<u>UHelioScope</u>

Annual Production Repo	rt produced by Peter Smith
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Condition Set												
Description	Cond	Condition Set 1										
Weather Dataset	TMY,	TMY, 10km Grid, meteonorm (meteonorm)										
Solar Angle Location	Mete	Meteo Lat/Lng										
Transposition Model	Pere	Perez Model										
Temperature Model	Sandia Model											
	Rack	Rack Type				b		Т	emper	ature D	elta	
Temperature Model Parameters	Fixed Tilt			-3	.56	-0.07	75	3	°C			
	Flus	h Mou	int	-2	.81	-0.04	455	55 0°C				
Soiling (%)	J	F	М	А	М	J	J	А	S	0	N	D
	2	2	2	2	2	2	2	2	2	2	2	2
Irradiation Variance	5%	5%										
Cell Temperature Spread	4° C											
Module Binning Range	-2.5%	6 to 2.	5%									
AC System Derate	0.50%											
Module Characterizations	By						aracte	terization				
						Fols Labs		Spec Sheet Characterization, PAN				
Component	Device				Uploa	Uploaded By			Characterization			
Characterizations	SG30CX (Sungrow) Folsom Labs Default Characterization							٦				

🖨 Components						
Component	Name	Count				
Inverters	SG30CX (Sungrow)	4 (119.6 kW)				
Strings	10 AWG (Copper)	20 (2,021.2 m)				
Module	Longi Solar, LR4-72HPH-450(2019) (450W)	334 (150.3 kW)				

Wiring Zones	
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🛔 Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	6-20	Along Racking

Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Flush Mount	Landscape (Horizontal)	5°	178.5°	0.0 m	1x1	78	78	35.1 kW
Field Segment 1 (copy)	Flush Mount	Landscape (Horizontal)	5°	178.5°	0.0 m	1x1	52	52	23.4 kW
Field Segment 1 (copy 1)	Flush Mount	Landscape (Horizontal)	5°	178.5°	0.0 m	1x1	64	64	28.8 kW
Field Segment 1 (copy 2)	Flush Mount	Landscape (Horizontal)	5°	178.5°	0.0 m	1x1	100	100	45.0 kW
Field Segment 1 (copy 3)	Flush Mount	Landscape (Horizontal)	5°	178.5°	0.0 m	1x1	20	20	9.00 kW
Field Segment 1 (copy 4)	Flush Mount	Landscape (Horizontal)	5°	178.5°	0.0 m	1x1	12	12	5.40 kW
Field Segment 1 (copy 5)	Flush Mount	Landscape (Horizontal)	5°	178.5°	0.0 m	1x1	8	8	3.60 kW

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Oetailed Layout

