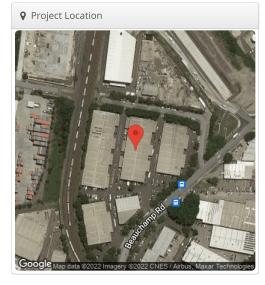


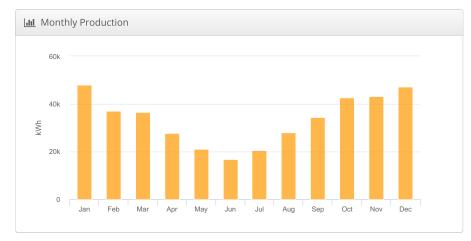
Case Study 4 - Flush mount system, Australia Case Study 4 - Flush Mount, Australia, Jas

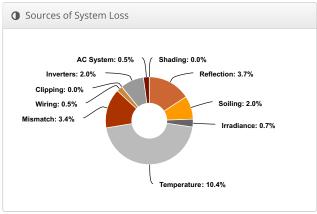
Forwarding sydney

& Report	
Project Name	Case Study 4 - Flush Mount , Australia
Project Address	Jas Forwarding sydney
Prepared By	Bhanu Swaroop Gaddam gaddambhanu9@gmail.com

lılıl System Metrics						
Design	Case Study 4 - Flush mount system, Australia					
Module DC Nameplate	313.4 kW					
Inverter AC Nameplate	300.0 kW Load Ratio: 1.04					
Annual Production	403.1 MWh					
Performance Ratio	78.7%					
kWh/kWp	1,286.3					
Weather Dataset	TMY, SYDNEY, IWEC Data (epw)					
Simulator Version	77eaf2cdb5-02f2a7f506-20068b956b- d70d5f9ff0					







	Description	Output	% Delta				
	Annual Global Horizontal Irradiance	1,652.2					
	POA Irradiance	1,633.6	-1.1%				
Irradiance	Shaded Irradiance	1,633.6	0.0%				
(kWh/m ²)	Irradiance after Reflection	1,573.9	-3.7%				
	Irradiance after Soiling	1,542.4	-2.0%				
	Total Collector Irradiance	1,542.4	0.0%				
Energy (kWh)	Nameplate	483,449.1					
	Output at Irradiance Levels	480,211.0	-0.7%				
	Output at Cell Temperature Derate	430,082.1	-10.4%				
	Output After Mismatch	415,539.1	-3.4%				
	Optimal DC Output	413,441.8	-0.5%				
	Constrained DC Output	413,401.1	0.0%				
	Inverter Output	405,133.1	-2.0%				
	Energy to Grid	403,107.4	-0.5%				
Temperature M	letrics						
	Avg. Operating Ambient Temp		19.5 °C				
	Avg. Operating Cell Temp						
Simulation Met	rics						
	Operating Hours						
Solved Hours							



Condition Set													
Description	Condition Set 1												
Weather Dataset	TMY,	TMY, SYDNEY, IWEC Data (epw)											
Solar Angle Location	Mete	Meteo Lat/Lng											
Transposition Model	Pere	Perez Model											
Temperature Model	Sano	lia Mc	del										
	Rack Type			á	a b				Temperature Delta				
Temperature Model Parameters	Fixed Tilt			-	3.56	-0.0	-0.075		3°C				
	Flus	h Mou	unt		2.81	-0.0	-0.0455		0°C				
Soiling (%)	J	F	M	Α	М	J	J	J	Α	S	0	N	D
55	2	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	0.50%												
Module Characterizations	Module					Uploaded By Charac			acteri	erization			
	TSM-DE14H (II) 370 (Trina Folsom Labs							n Spec Sheet Characterization, PAN			, PAN		
Component	Device Uploaded By Characterization						tion						
Characterizations	PVS-50-TL (Fimer (Formerly ABB)) Folsom Labs Spec Sheet												

⊖ Components						
Component	Name	Count				
Inverters	PVS-50-TL (Fimer (Formerly ABB))	6 (300.0 kW)				
Strings	10 AWG (Copper)	48 (13,629.8 ft)				
Module	Trina Solar, TSM-DE14H (II) 370 (370W)	847 (313.4 kW)				

A Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	13-19	Along Racking
Wiring Zone 2	-	13-19	Along Racking

## Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
North West Roof	Flush Mount	Landscape (Horizontal)	15°	279.49823°	0.0 ft	1x1	491	488	180.6 kW
South East Roof	Flush Mount	Landscape (Horizontal)	15°	99.52996°	0.0 ft	1x1	361	359	132.8 kW



