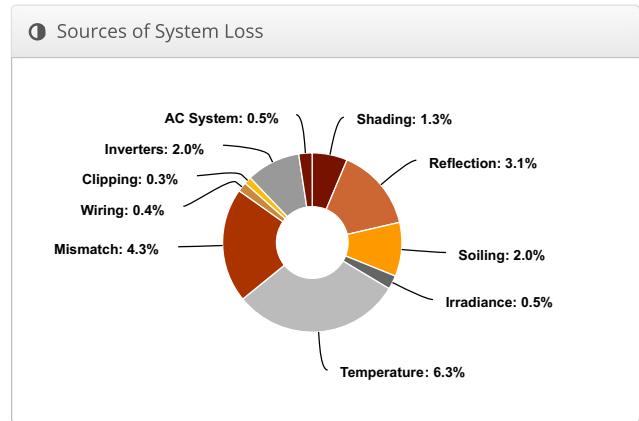
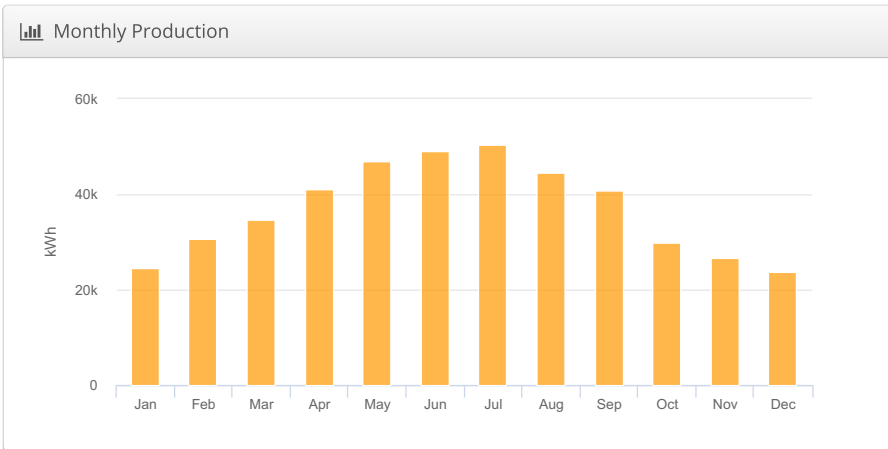
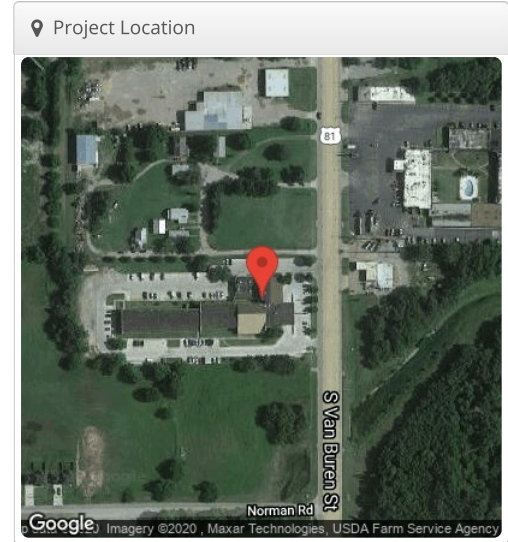


OYO Hotel OYO Hotel, 2818 Vanburren Street,

Report	
Project Name	OYO Hotel
Project Address	2818 Vanburren Street
Prepared By	

System Metrics	
Design	OYO Hotel
Module DC Nameplate	288.8 kW
Inverter AC Nameplate	240.0 kW Load Ratio: 1.20
Annual Production	443.1 MWh
Performance Ratio	81.1%
kWh/kWp	1,534.5
Weather Dataset	TMY, 10km Grid (36.35,-97.85), NREL (prospector)
Simulator Version	e250fbac00-5cfce25737-0ce8237f39-a249ab890b



Annual Production			
	Description	Output	% Delta
Irradiance (kWh/m ²)	Annual Global Horizontal Irradiance	1,753.7	
	POA Irradiance	1,892.6	7.9%
	Shaded Irradiance	1,867.9	-1.3%
	Irradiance after Reflection	1,810.1	-3.1%
	Irradiance after Soiling	1,773.9	-2.0%
	Total Collector Irradiance	1,773.8	0.0%
Energy (kWh)	Nameplate	512,203.9	
	Output at Irradiance Levels	509,569.4	-0.5%
	Output at Cell Temperature Derate	477,570.2	-6.3%
	Output After Mismatch	457,256.7	-4.3%
	Optimal DC Output	455,646.5	-0.4%
	Constrained DC Output	454,412.7	-0.3%
	Inverter Output	445,317.0	-2.0%
	Energy to Grid	443,091.0	-0.5%
Temperature Metrics			
	Avg. Operating Ambient Temp		18.3 °C
	Avg. Operating Cell Temp		29.3 °C
Simulation Metrics			
	Operating Hours	4709	
	Solved Hours	4709	

Condition Set												
Description	Condition Set 1											
Weather Dataset	TMY, 10km Grid (36.35,-97.85), NREL (prospector)											
Solar Angle Location	Meteo 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								
	East-West	-3.56	-0.075	3°C								
	Carport	-3.56	-0.075	3°C								
Soiling (%)	J	F	M	A	M	J	J	A	S	O	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% to 2.5%											
AC System Derate	0.50%											
Module Characterizations	Module	Uploaded By	Characterization									
	SST-375M (SunSpark)	Folsom Labs	Spec Sheet Characterization, PAN									
Component Characterizations	Device	Uploaded By	Characterization									
	PVS-60-TL (ABB)	Folsom Labs	Spec Sheet									

Components		
Component	Name	Count
Inverters	PVS-60-TL (ABB)	4 (240.0 kW)
Strings	10 AWG (Copper)	44 (7,321.4 ft)
Module	SunSpark, SST-375M (375W)	770 (288.8 kW)

Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	12	16-18	Along Racking

Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Fixed Tilt	Landscape (Horizontal)	10°	180°	1.5 ft	1x1	160	156	58.5 kW
Field Segment 2	Fixed Tilt	Landscape (Horizontal)	10°	180°	1.5 ft	1x1	160	160	60.0 kW
Field Segment 3	Fixed Tilt	Landscape (Horizontal)	10°	180°	1.5 ft	1x1	102	102	38.3 kW
Field Segment 8	Flush Mount	Landscape (Horizontal)	18°	180°	0.0 ft	1x1	150	150	56.3 kW
Field Segment 7	Fixed Tilt	Landscape (Horizontal)	10°	180°	1.5 ft	1x1	18	9	3.38 kW
Field Segment 8	Fixed Tilt	Landscape (Horizontal)	10°	180°	1.5 ft	1x1	37	29	10.9 kW
Field Segment 8	Fixed Tilt	Landscape (Horizontal)	10°	180°	1.5 ft	1x1	86	84	31.5 kW
Field Segment 6	Flush Mount	Landscape (Horizontal)	18°	90°	0.0 ft	1x1	64	56	21.0 kW
Field Segment 9	Fixed Tilt	Landscape (Horizontal)	10°	180°	1.5 ft	1x1	24	24	9.00 kW

Detailed Layout

