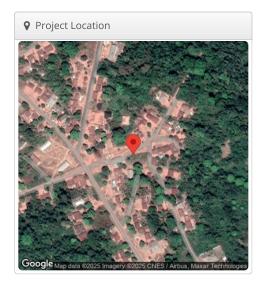
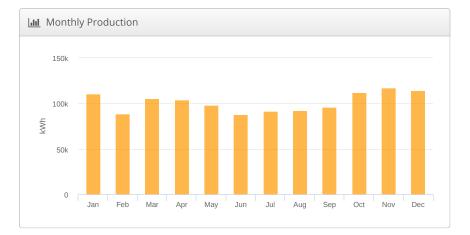


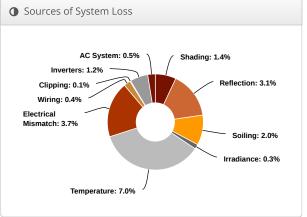
Design 1 rice mill project, 6.731639°N, 6.451333°E

& Report					
Project Name	rice mill project				
Project Address	6.731639°N, 6.451333°E				
Prepared By	PriVida Design Department info@prividaenergy.com				

Lill System Metrics							
Design	Design 1						
Module DC Nameplate	748.80 kW						
Inverter AC Nameplate	600.00 kW Load Ratio: 1.25						
Annual Production	1.217 GWh						
Performance Ratio	81.8%						
kWh/kWp	1,625.3						
Weather Dataset	TMY, 10km Grid, Meteonorm 8 (meteonorm_v8)						
Simulator Version	86402a1126-0d561f2b22- d999dd8968-c381c8e298						









4 Annual Production									
	Description	Output	Delta						
	Annual Global Horizontal Irradiance	1,972.3							
	POA Irradiance	1,987.6	0.8%						
Irradiance (kWh/m²)	Shaded Irradiance	1,960.1	-1.4%						
(((((((((((((((((((((((((((((((((((((((Irradiance after Reflection	1,899.4	-3.1%						
	Irradiance after Soiling	1,861.4	-2.0%						
	Total Collector Irradiance	1,861.4	0.0%						
	Nameplate	1,394,342.9							
	Output at Irradiance Levels	1,389,951.8	-0.3%						
	Output at Cell Temperature Derate	1,292,220.0	-7.0%						
Energy (kWh)	Output after Electrical Mismatch	1,244,143.3	-3.7%						
(KVVII)	Optimal DC Output	1,238,602.3	-0.4%						
	Constrained DC Output	1,237,973.4	-0.1%						
	Inverter Output	1,223,110.1	-1.2%						
	Energy to Grid	1,216,994.7	-0.5%						
Temperature Me	etrics								
		27.1 °C							
Avg. Operating Cell Temp 38.									
Simulation Metri	ics								
Operating Hours 466									

Condition Se	et												
Description	Condition Set 1												
Weather Dataset	TMY, 1	TMY, 10km Grid, Meteonorm 8 (meteonorm_v8)											
Solar Angle Location	Meteo Lat/Lng												
Transposition Model	Perez Model												
Temperature Model	Sandia	Sandia Model											
	Rack 1	Гуре			a		b	b Te		mperati	ıre Delt	a	
Tomporatura Madal	Fixed	Tilt			-3.56		-0.07	5	3°	С			
Temperature Model Parameters	Flush	Moun	t		-2.8	31	-0.04	55	0°	C			
	East-West				-3.56		-0.07	-0.075 3°		3°C			
	Carpo	Carport			-3.56		-0.07	-0.075 3		C			
Soiling (%)	J	F	M	,	A	M	J	J	Α	S	0	N	D
55mmg (70)	2	2	2		2	2	2	2	2	2	2	2	2
Albedo	J	F	М	,	Α	M	J	J	Α	S	0	N	D
Albedo	0.20	0.20	0.20	0.	20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Rear Mismatch Loss	10%					Rear S	hading	Factor		5%			
Module Transparency	0%	0%											
Irradiation Variance	5%												
Cell Temperature Spread	4° C												
Module Binning Range	-2.5% to 2.5%												
AC System Derate	0.50%												
Module & Component Characterizations	Туре	Type Component Characterization								Bifacial			
	Modu	Module JAM78S30-600/MR (1500V) (JA Spec Sheet Charact PAN								terizatio	on,	False	
	Invert	er	UN2000- Huawei)	-10	0KT	L-M1 (4	80)	Spec	Sheet				N/A



☐ Components						
Component	Name	Count				
Inverters	SUN2000-100KTL-M1 (480) (Huawei)	6 (600.00 kW)				
Strings	10 AWG (Copper)	66 (3,583.3 m)				
Module	JA Solar, JAM78S30-600/MR (1500V) (600W)	1,248 (748.80 kW)				

♣ Wiring Zones			
Description	Combiner Poles	String Size	Stringing Strategy
Wiring Zone	-	5-20	Along Racking

## Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment 1	Fixed Tilt	Landscape (Horizontal)	Module: 15°	Module: 180°	2.4 m	4x1	312	1,248	748.80 kW



