







QUOTATION

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Dear Albert,

Thank you for choosing SixD Consulting to design and quote your solar project.

We did our design with the following data:

- Battery Backup System
- Total Daily Usage 25 kWh
- Night Time usage 8 kWh (Measured)
- EnerSol PV Modules
- Sunsynk Inverter
- Roof Mount

We calculated the total project value at R 129 686 excl VAT. At your current tariff of R2.37 per kWh, your ROI will be +-5 years.

See attached detailed design and simulated production, as well as our detailed costing.

We would be able to start this project 14 days after the approval of the quotation.

We hope you find everything in order, please contact us if you need any additional information.

Regards,

SixD Renewables

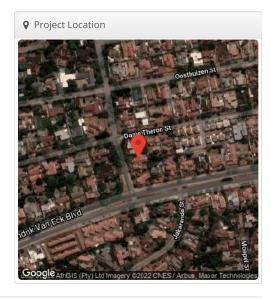


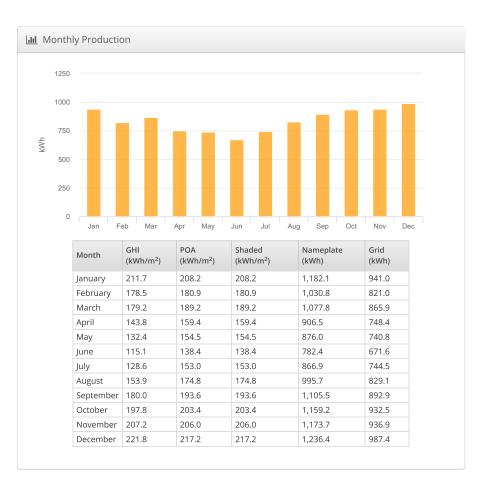


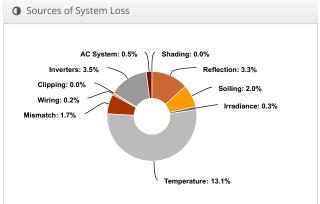
Rooftop House AJ Viljoen, 8 Honeyball street, vanderbijlpark



Lill System Metrics								
Design	Rooftop House							
Module DC Nameplate	6.00 kW							
Inverter AC Nameplate	5.00 kW Load Ratio: 1.20							
Annual Production	10.11 MWh							
Performance Ratio	77.4%							
kWh/kWp	1,685.3							
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)							
Simulator Version	414c5bc716-617639f4f4-049deabd58- 7753ff5f92							









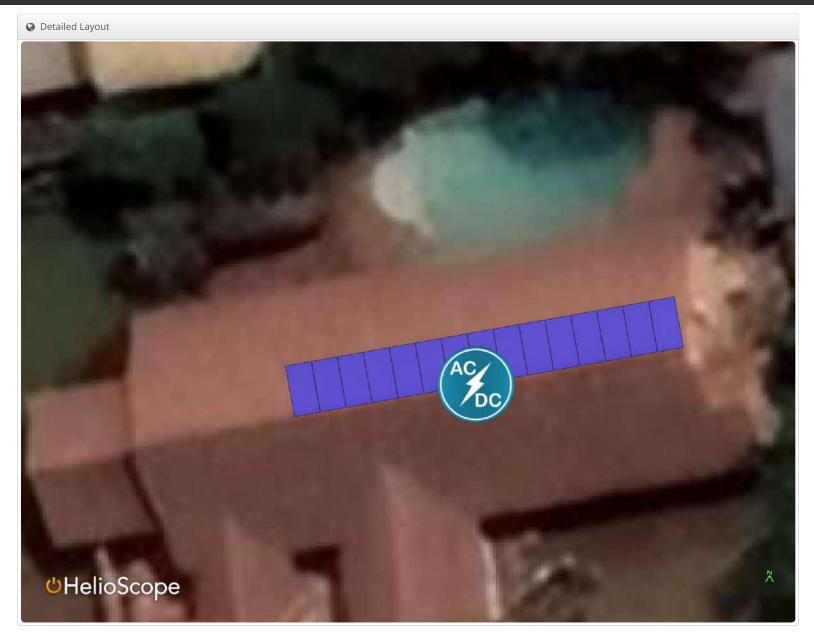
	Description	Output	% Delta						
	Annual Global Horizontal Irradiance	2,050.0							
	POA Irradiance	2,178.5	6.3%						
Irradiance	Shaded Irradiance	2,178.5	0.0%						
(kWh/m ²)	Irradiance after Reflection	2,106.5	-3.3%						
	Irradiance after Soiling	2,064.3	-2.0%						
	Total Collector Irradiance	2,064.3	0.0%						
	Nameplate	12,393.1							
	Output at Irradiance Levels	12,359.6	-0.3%						
	Output at Cell Temperature Derate	10,738.5	-13.1%						
Energy	Output After Mismatch	10,551.4	-1.7%						
(kWh)	Optimal DC Output	10,533.8	-0.2%						
	Constrained DC Output	10,531.6	0.0%						
	Inverter Output	10,162.9	-3.5%						
	Energy to Grid	10,112.1	-0.5%						
Temperature N	letrics								
	Avg. Operating Ambient Temp		20.0 °C						
Avg. Operating Cell Temp									
Simulation Met	rics								
	0	perating Hours	4590						
Solved Hours									

Condition Set												
Description	Conc	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	Туре		a		b		Te	empera	iture D	elta	
Temperature Model Parameters	Fixe	d Tilt		-3	.56	-0.0	75	3'	°C			
	Flus	n Mou	Mount		.81	-0.0	455	55 0°C				
Soiling (%)	J	F	М	Α	M	J	J	Α	S	0	N	D
	_	2 2 2 2 2 2 2 2 2 2								2		
Irradiation Variance	5%											
Cell Temperature Spread	4° C	4° C										
Module Binning Range	-2.5%	6 to 2.	5%									
AC System Derate	0.509	%										
Module	Mod	ule				Uploaded By Char			racterization			
Characterizations		Enersol Half Cell Mono Series 400 Folsom Spec Sheet (Iseli Energy) Labs Characterization, PAN										PAN
Component	Devi	ce					Upl	oade	d By	Chara	cteriza	tion
Characterizations	SUN	-5K-S0	301/03L	P1-EU	J (SunS	ynk)	Fol	som l	abs	Spec	Sheet	

⊖ Components									
Component	Name	Count							
Inverters	SUN-5K-SG01/03LP1-EU (SunSynk)	1 (5.00 kW)							
Strings	10 AWG (Copper)	2 (53.3 ft)							
Module	Iseli Energy, Enersol Half Cell Mono Series 400 (400W)	15 (6.00 kW)							

👬 Wiring Zones												
Description Combiner Poles					ing Size	Stringing Strategy						
Wiring Zone	-			4-1	0	Along Racking						
Ⅲ Field Segments												
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power			
Field Segment 1	Flush Mount	Portrait (Vertical)	10°	349.91183°	0.0 ft	1x1	15	15	6.00 kW			

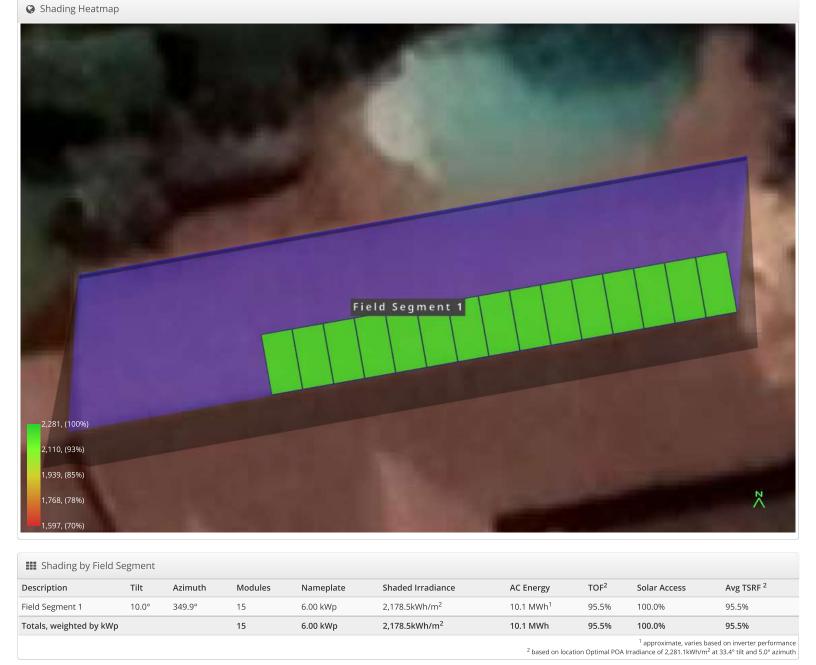






III Solar Access by Month

Rooftop House AJ Viljoen, 8 Honeyball street, vanderbijlpark



Description	jan	feb	mar	apr	may	jun	jul	aug	sep	oct	nov	dec
Field Segment 1	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Solar Access, weighted by kWp	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
AC Power (kWh)	941.0	821.0	865.9	748.4	740.8	671.6	744.5	829.1	892.9	932.5	936.9	987.4



