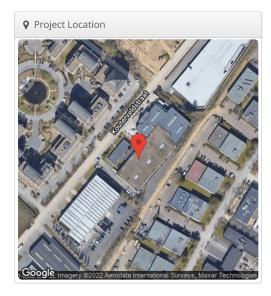


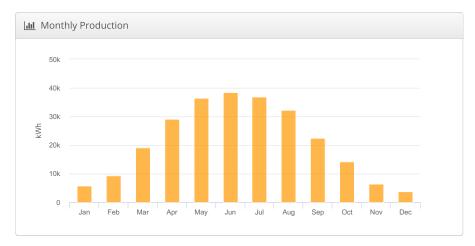
Case Study 6 - East -West Racking, Belgium (SW) Case Study 6 - East -West Racking,

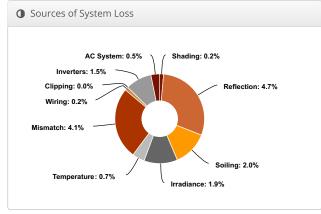
Belgium, Kouterveldstrat 10-12

№ Report						
Project Name	Case Study 6 - East -West Racking, Belgium					
Project Address	Kouterveldstrat 10-12					
Prepared By	Bhanu Swaroop Gaddam gaddambhanu9@gmail.com					

Lill System Metrics						
Design	Case Study 6 - East -West Racking, Belgium (SW)					
Module DC Nameplate	296.1 kW					
Inverter AC Nameplate	250.0 kW Load Ratio: 1.18					
Annual Production	254.6 MWh					
Performance Ratio	85.2%					
kWh/kWp	859.7					
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)					
Simulator Version	77eaf2cdb5-02f2a7f506-20068b956b- d70d5f9ff0					







	Description	Output	% Delta				
	Annual Global Horizontal Irradiance	1,012.7					
	POA Irradiance	1,008.9	-0.4%				
Irradiance	Shaded Irradiance	1,006.7	-0.2%				
(kWh/m ²)	Irradiance after Reflection	959.5	-4.7%				
	Irradiance after Soiling	940.3	-2.0%				
	Total Collector Irradiance	940.2	0.0%				
Energy (kWh)	Nameplate	278,695.9					
	Output at Irradiance Levels	273,356.8	-1.9%				
	Output at Cell Temperature Derate	271,416.1	-0.7%				
	Output After Mismatch	260,257.1	-4.1%				
	Optimal DC Output	259,752.2	-0.2%				
	Constrained DC Output	259,744.0	0.0%				
	Inverter Output	255,847.8	-1.5%				
	Energy to Grid	254,568.6	-0.5%				
Temperature N	etrics						
	Avg. Operating Ambient Temp		13.3 °C				
Avg. Operating Cell Temp							
Simulation Met	rics						
Operating Hours							
Solved Hours							



Condition Set														
Description	Condition Set 1													
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)													
Solar Angle Location	Meteo Lat/Lng													
Transposition Model	Perez Model													
Temperature Model	Sandia Model													
	Racl	к Туре		а	a		b			Te	mper	ature	Delta	
Temperature Model Parameters	Fixe	d Tilt		-	3.56	-0.075			3°C					
	Flus	h Moı		2.81		-0.0455			0°	С				
Soiling (%)	J	F	М	Α	N	/	J	J		A	S	0	N	D
Jan. 19 (74)	2	2	2	2	2	2	2	2		2	2	2	2	2
Irradiation Variance	5%													
Cell Temperature Spread	4° C													
Module Binning Range	-2.59	% to 2	.5%											
AC System Derate	0.50	%												
Module Characterizations	Modifie					Uploaded By Ch			Ch	haracterization				
The state of the s	,					Folsom Spo Labs PA			ec Sheet Characterization, N					
Component	Device						Uploaded By				Characterization			
Characterizations	50K	50KTL-M (SunGrow)						Folsom Labs			Spec Sheet			

⊖ Components							
Component	Name	Count					
Inverters	50KTL-M (SunGrow)	5 (250.0 kW)					
Strings	10 AWG (Copper)	50 (6,609.3 ft)					
Module	JA Solar, JAM72D00-350/BP (350W)	846 (296.1 kW)					

A Wiring Zones					
Description	Combiner Poles	String Size	Stringing Strategy		
Wiring Zone	-	8-19	Along Racking		
Ⅲ Field Segments					

Ⅲ Field Segments									
Description	Racking	Orientation	Tilt	Azimuth	Intrarow Spacing	Frame Size	Frames	Modules	Power
Field Segment	East- West	Landscape (Horizontal)	10°	219.88596°	1.0 ft	1x1	423	846	296.1 kW



