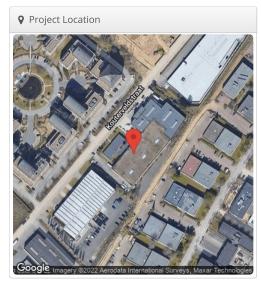


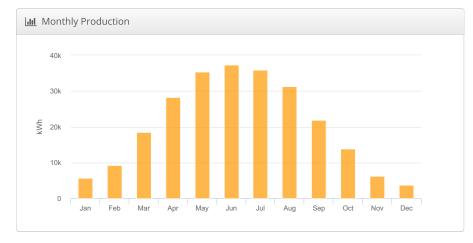
## Case Study 6 - East -West Racking, Belgium Case Study 6 - East -West Racking, Belgium,

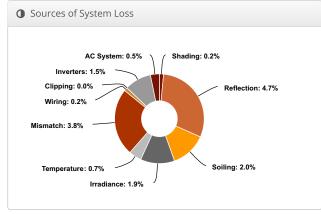
Kouterveldstrat 10-12

<b>№</b> 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					
Module DC Nameplate	287.0 kW					
Inverter AC Nameplate	250.0 kW Load Ratio: 1.15					
Annual Production	247.6 MWh					
Performance Ratio	85.5%					
kWh/kWp	862.8					
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	1,009.0	-0.4%				
Irradiance	Shaded Irradiance	1,006.6	-0.2%				
(kWh/m <sup>2</sup> )		-4.7%					
	Irradiance after Soiling	aded Irradiance 1,006.6 after Reflection 959.5 nce after Soiling 940.3 actor Irradiance 940.4 Nameplate 270,191.0 rradiance Levels 265,020.2 perature Derate 263,138.9 After Mismatch 253,169.6 atimal DC Output 252,676.3 ained DC Output 252,668.0 Inverter Output 248,877.9	-2.0%				
	Total Collector Irradiance	940.4	0.0%				
	Nameplate	270,191.0					
	Output at Irradiance Levels	265,020.2	-1.9%				
	Output at Cell Temperature Derate	263,138.9	-0.7%				
Energy	Output After Mismatch	253,169.6	-3.8%				
Energy (kWh)	Optimal DC Output	252,676.3	-0.2%				
	Constrained DC Output	252,668.0	0.0%				
	Inverter Output	248,877.9	-1.5%				
	Energy to Grid	247,633.6	-0.5%				
Temperature M	letrics						
	Avg. Operating Ambient Temp		13.3 °C				
	Avg. Operating Cell Temp		18.5 °C				
Simulation Met	rics						
Operating Hours							
Solved Hours							



Condition Set														
Description	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	Sano	Sandia Model												
	Rack Type				a		b			Te	mper	ature l	Delta	
Temperature Model Parameters	Fixed Tilt				3.56	-0.075			3°C					
	Flus	h Moı	unt	-3	2.81		-0.0455			0°C				
Soiling (%)	J	F	M	Α	N	1	J	J		Α	S	0	N	D
35111118 (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	6 to 2	.5%											
AC System Derate	0.50	%												
Module Characterizations	Module						Uploaded By			Characterization				
	J						Folsom Spec Labs PAN				Sheet Characterization,			
Component	Device					ι	Uploaded By				Characterization			
Characterizations	50KTL-M (SunGrow)						Folsom Labs				Spec Sheet			

⊖ Components							
Component	Name	Count					
Inverters	50KTL-M (SunGrow)	5 (250.0 kW)					
Strings	10 AWG (Copper)	50 (4,244.6 ft)					
Module	JA Solar, JAM72D00-350/BP (350W)	820 (287.0 kW)					

♣ Wiring Zo	nes											
Description	escription Combiner Poles			String Size				Stringing Strategy				
Wiring Zone		-		8-19		Along Rac	Along Racking					
<b>Ⅲ</b> Field Segr	ments											
Description	Racking	Orientation	Tilt Azimu	th	Intrarow Spacing	Frame Size	Frames	Modules	Power			

10° 129.62238° 1.0 ft

287.0

kW

Landscape

(Horizontal)

Field Segment East-

West



