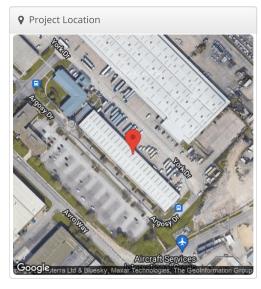
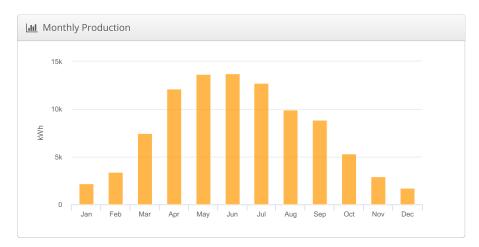


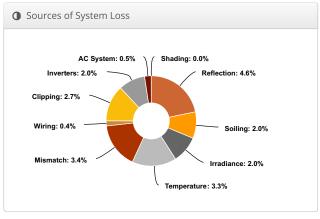
Case Study 8 - Flush Mount, UK Case Study 8 - Flush Mount, UK, Tq Express UK

№ Report						
Project Name	Case Study 8 - Flush Mount, UK					
Project Address	Tq Express UK					
Prepared By	Bhanu Swaroop Gaddam gaddambhanu9@gmail.com					

Lill System Metr	Lill System Metrics					
Design	Case Study 8 - Flush Mount, UK					
Module DC Nameplate	126.0 kW					
Inverter AC Nameplate	125.0 kW Load Ratio: 1.01					
Annual Production	94.16 MWh					
Performance Ratio	80.8%					
kWh/kWp	747.3					
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)					
Simulator Version	77eaf2cdb5-02f2a7f506-20068b956b- d70d5f9ff0					







	Description	Output	% Delta			
	Annual Global Horizontal Irradiance	876.7				
	POA Irradiance	924.8	5.5%			
Irradiance	Shaded Irradiance	924.8	0.0%			
(kWh/m²)	Irradiance after Reflection	882.5	-4.6%			
	Irradiance after Soiling	864.8	-2.0%			
	Total Collector Irradiance	864.8	0.0%			
	Nameplate	109,013.2				
	Output at Irradiance Levels	106,791.4	-2.0%			
	Output at Cell Temperature Derate	103,216.4	-3.3%			
Energy	Output After Mismatch	99,675.9	-3.4%			
(kWh)	Optimal DC Output	99,291.7	-0.4%			
	Constrained DC Output	96,568.5	-2.7%			
	Inverter Output	94,637.2	-2.0%			
	Energy to Grid	94,164.0	-0.5%			
Temperature N	letrics					
	Avg. Operating Ambient Temp		12.3 °C			
	Avg. Operating Cell Temp		21.8 °C			
Simulation Met	rics					
	Operating Hours					
Solved Hours						

▲ Condition Set													
Description	Cond	Condition Set 1											
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)												
Solar Angle Location	Mete	o Lat	'Lng										
Transposition Model	Pere	z Mod	el										
Temperature Model	Sand	lia Mo	del										
	Rack Type a			b Temperature Delta -0.075 3°C -0.0455 0°C									
Temperature Model Parameters	Fixed Tilt				-3.56		-0.075		3	3°C			
	Flush Mount				-2.81		-0.0455		С	0°C			
Soiling (%)	J	F	M	Α		M	J	J	Α	S	0	N	D
56mmg (76)	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%	6 to 2.	5%										
AC System Derate	0.50	%											
Module	Module					Uploaded By		Ch	Characterization				
Characterizations	CS3L-350P (1000V) (Canadian Solar)							ec Sheet naracterization, PAN					
Component	Device					Uploaded By		Characterization					
Characterizations	Eco	25.0-3	(Fro	nius)	Folsom Labs			Spe	Spec Sheet Efficiency				



☐ Components					
Component	Name	Count			
Inverters	Eco 25.0-3-s (Oct15) (Fronius)	5 (125.0 kW)			
Strings	10 AWG (Copper)	20 (5,644.1 ft)			
Module	Canadian Solar, CS3L-350P (1000V) (350W)	360 (126.0 kW)			

♣ Wiring 2	Zones						
Description		Combiner Poles	Strin	g Size	Stringing	Strategy	
Wiring Zone		-	18-22		Along Rac		
Field Se	gments						
Description	Racking	Orientation	Tilt Azimuth	Intrarow	Frame	Frames Mo	odules Power

