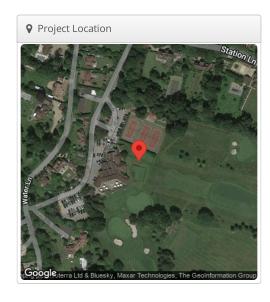
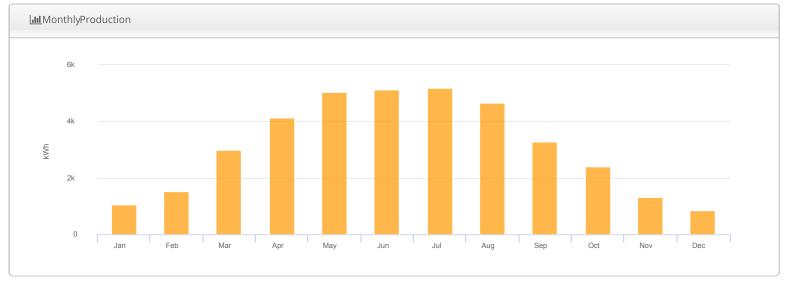


Project Design & Quotation

≯ Report	
Project Name	Project Eagle
Project Description	GM/ CP
Project Address	Confidential
Prepared By	Tom Glenn tomglenn@solvo.energy

System Met	rics
Design	EPC
Module DC Nameplate	39.4 kW
Inverter AC Nameplate	36.0 kW Load Ratio: 1.09
Annual Production	37.57 MWh
Performance Ratio	86.3%
kWh/kWp	954.6
Weather Dataset	TMY, 10km Grid, meteonorm (meteonorm)
Simulator Version	86889782d6-c36bc21c0a-f288a5da50- f3c93275c5





EPC Quote	
EPC System Cost	£40,041.00
Estimated Annual Savings	£17,679.65
Estimated Annual Maintenance Cost	£1,000
Basic Payback Calculation	2.26 Years
System Lifetime Savings	£372,792.15
Disclaimer: The design and quotation	were produced from

Disclaimer: The design and quotation were produced from information provided during the respective client's inquiry period. All quoted values for cost, savings, etc are preliminary and are subject to change with the provision of additional information about the respective site and the confirmation of a Grid Connection Offer.

System Environmental Benefits (EPC)							
Tonnes Avoided CO ₂	181						
Car Miles Avoided	842,295						
Trees Planted	5,620						
Long Haul Flights Avoided	218						

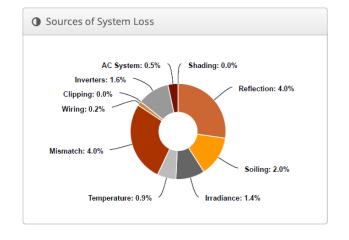
All environmental benefits are estimations calculated using the UK grid's average carbon intensity (2022). Each benefit is calculated over the PV systems full, 25 year life cycle.



4 AnnualPr	oduction						
	Description	Output	% Delta				
	Annual Global Horizontal Irradiance	995.1					
	POA Irradiance	1,106.0	11.1%				
Irradiance	Shaded Irradiance	1,106.0	0.0%				
(kWh/m ²)	Irradiance after Re ection	1,061.8	-4.0%				
	Irradiance after Soiling	1,040.6	-2.0%				
	Total Collector Irradiance	1,040.6	0.0%				
	Nameplate	41,017.5					
	Output at Irradiance Levels	40,427.7	-1.4%				
Energy (kWh)	Output at Cell Temperature Derate	40,050.5	-0.9%				
	Output After Mismatch	38,457.5	-4.0%				
	Optimal DC Output	38,377.4	-0.2%				
	Constrained DC Output	38,377.2	0.0%				
	Inverter Output	37,763.2	-1.6%				
	Energy to Grid	37,574.4	-0.5%				
Temperature M	letrics						
	Avg. Operating Ambient Temp		13.1 °C				
Avg. Operating Cell Temp							
Simulation Met	rics						
	Ор	perating Hours	4552				
		Solved Hours	4552				

		Solved Hours	4552
⊜ Component	TS		
Component Nam	e	Cour	nt
Inverters	SUN2000-36KTL-M3 (400V) (2022)(Huawei)	1 (36	5.0
verters		kW)	
Strings	10 AWG (Copper)	5 (28	35.5
	, 11 ,	m)	
Module	Canadian Solar, CS3N-410MS(IEC1500	96 (3	39.4
	V) (410W)	kW)	

Condition Set														
Description	Cond	Condition Set 1												
Weather Dataset	TMY	TMY, 10km Grid, meteonorm (meteonorm)												
Solar Angle Location	Mete	eo Lat	t/Lng											
Transposition Model	Pere	z Mo	del											
Temperature Model	Sanc	lia Mo	odel											
	Rack	с Туре	9		a b		b	b		Te	mper	ature l	Delta	
Temperature Model	Fixe	d Tilt			-3	-3.56 -0		0.07	5	3°	С			
Parameters	Flus	h Mo	unt		-2	2.81		0.04		0°				
		-Wes	t		_	3.56	-0.075				3°C			
	Carport		-3	3.56	-0.075		3°	_						
Soiling (%)	J	F	M	Α		М	J		J	Α	S	0	N	D
Irradiation Variance	2 5%	2	2	2	2	2	2	2 2 2 2			2	2	2	
	5%													
Cell Temperature Spread	4° C													
Module Binning Range	-2.5%	6 to 2	.5%											
AC System Derate	0.509	%												
Module	Module						Uploaded By			Cha	aracterization			
Characterizations	CS3N-410MS(IEC1500 V) (Canadian Solar)							HelioScope C				oec Sheet haracterization, AN		
Component	Device						Uploaded By			d	Characterization			
Characterizations		SUN2000-36KTL-M3 (400V) (2022) HelioScope Spec Sheet												



## FieldSegmer	nts							
Description	F	Racking Orientation	Tilt Azimuth	Intrarow Spacing	Frame Size	Frames	Modules Powe	er
Field Segment	Fixed Tilt	Portrait (Vertical)	35° 197°	2.4 m	2x8	6	96	39.4 kW



