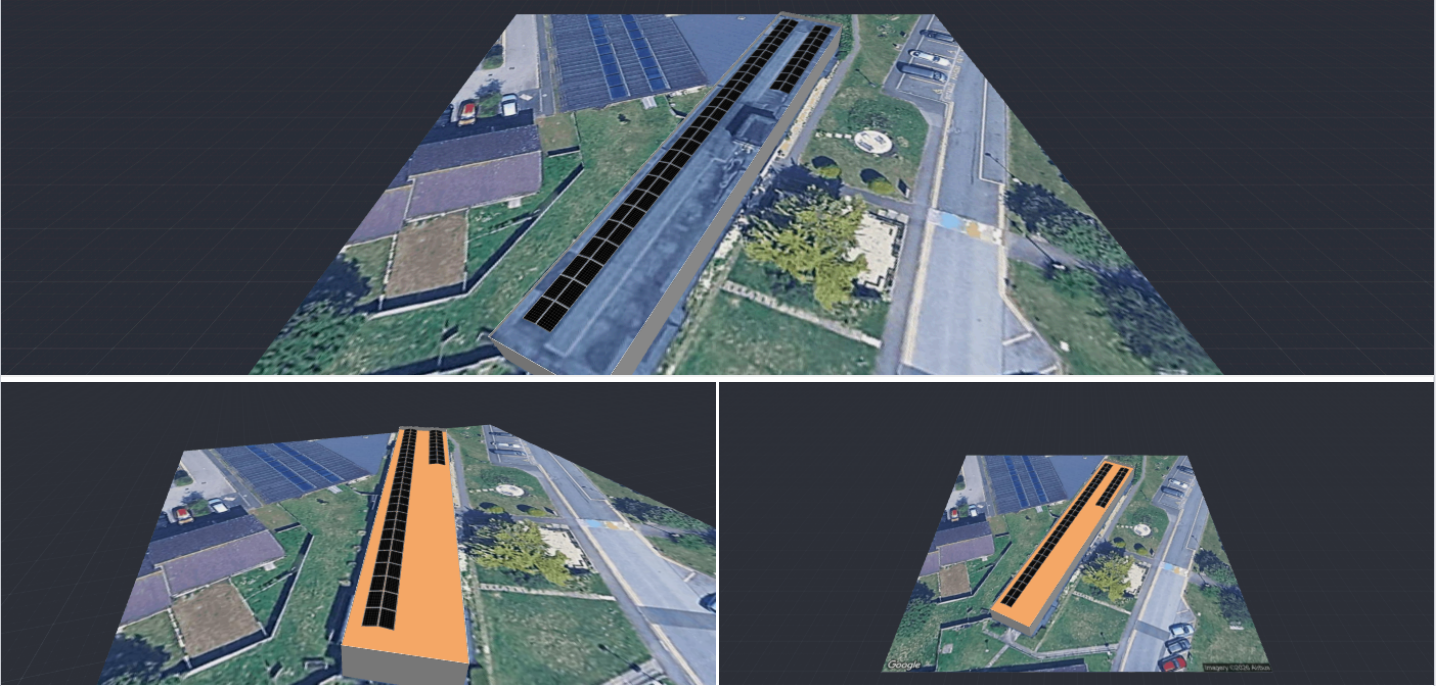


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SYSTEM OVERVIEW

 70 PV modules

 1 Inverter

 36 Optimizers

SIMULATION RESULTS



Installed DC Power
28.00 kWp



Max Achieved AC Power
20.00 kW



Annual Usable Solar Production
27.90 MWh



Annual CO₂ Emission Saved
5.39 t



Annual Equivalent Trees Planted
248

ANNUAL CONSUMPTION AND PRODUCTION RESULTS

Total Production **27.93** MWh

100%

-  To Building 0.00 MWh (0%)
-  To Grid 27.90 MWh (100%)

Consumption **0.00** Wh

0% Energy from solar

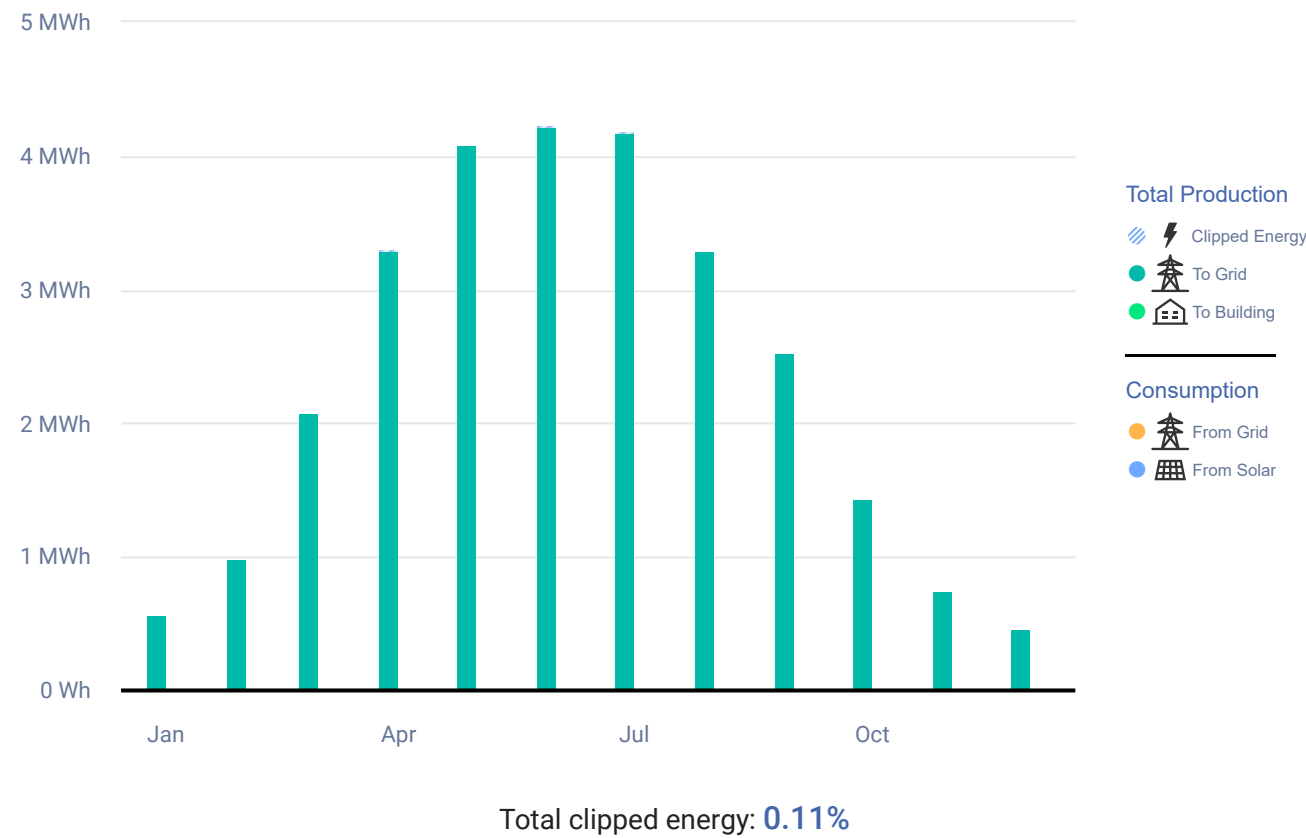
-  From Solar 0.00 Wh (0%)
-  From Grid 0.00 Wh (0%)

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ESTIMATED MONTHLY ENERGY



PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
35	Trina Solar Energy, TSM-400DE09.08 (Vertex S)	14 kWp			296°	10°
35	Trina Solar Energy, TSM-400DE09.08 (Vertex S)	14 kWp			116°	10°
Total:	70	28 kWp				

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BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (£)	Total (£)
 SE20K Order SE-SIN-RW00IBNM4 or SE-SIN-RWR0IBNH8 and configure the inverter model as SE20K during commissioning Three Phase Inverter, 20kW, DC SPD	SE20K			
	SE20K-RW00IBNM4	1	0.00	0.00
	P801 (verify waiver conditions)	36		
	TSM-400DE09.08 (Vertex S)	70		

OPTIMIZE YOUR SYSTEM



SolarEdge Battery

Increase self-consumption and savings by smartly charging the battery and using stored energy.



SolarEdge EV Charger

Drive on sunshine by charging your EV with excess solar energy, fully integrated into the SolarEdge ecosystem.



SolarEdge Meter

Track actual energy consumption and unlock more accurate insights to improve solar savings.

ELECTRICAL DESIGN

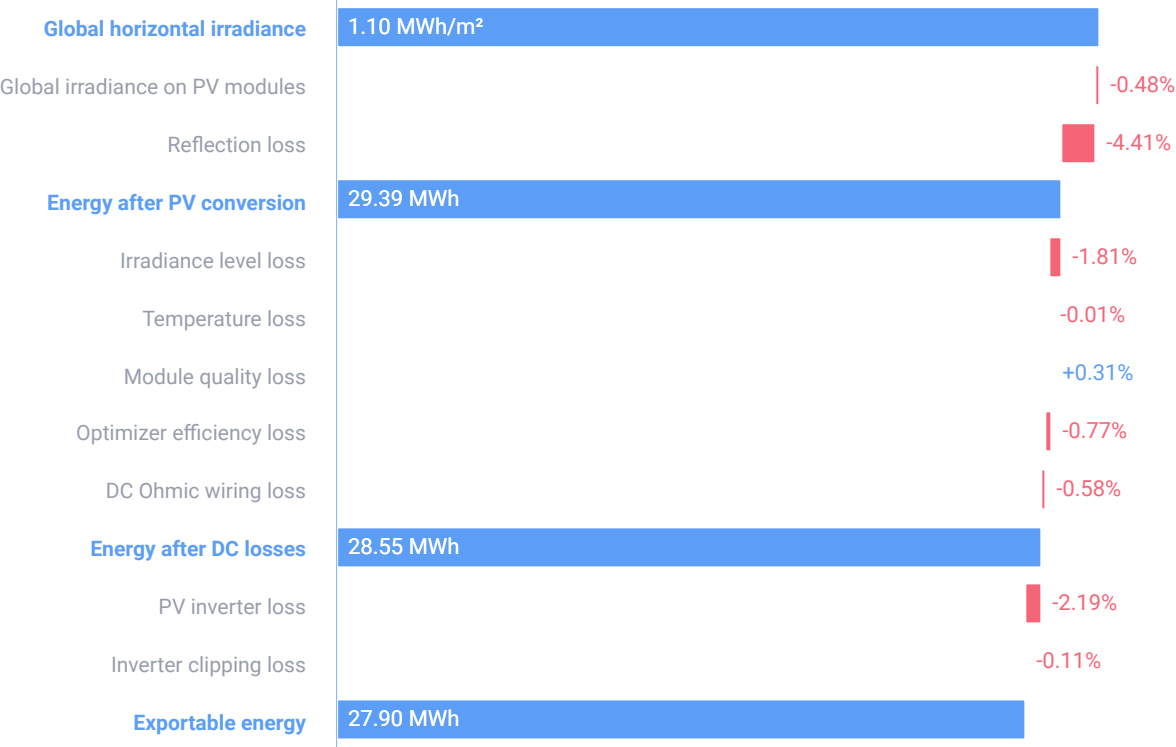
Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
 1 xSE20K 24.67kW 123% Oversizing	 2 x strings	 17 x P801 (verify waiver conditions) (2:1), 1 x P801 (verify waiver conditions) (1:1)	 35

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS

LOCATION & GRID

Time zone	BST (London)
Weather station	Boscombe Down (13 km away)
Station altitude	124 m
Station data source	Meteonorm 8.2
Grid	400V L-L, 230V L-N

LOSS FACTORS

Near shading	Enabled
Albedo	0.20
Bi-Facial Albedo	0.30
Soiling/Snow	0%
Incidence angle modifier (IAM), ASHRAE b0 param.	0.05
Thermal loss factor Uc (const) Flush mount	20
Thermal loss factor Uc (const) Tilted	29
LID loss factor	0%
System unavailability	0%