IGLOO THERMO LOGISTICS

Pennine View 19, Birstall, WF17 9NF, United Kingdom | 24 Apr 2026



SYSTEM OVERVIEW

270 PV modules | 1 Inverter | 136 Optimizers

SIMULATION RESULTS

Installed DC Power	Max Achieved AC Power	Annual Usable Solar Production	Annual CO_2 Emission Saved	Annual Equivalent Trees Planted
137.70 kWp	99.90 kW	136.98 MWh	26.49 t	1,217

ANNUAL CONSUMPTION AND PRODUCTION RESULTS

Total Production **137.01** MWh

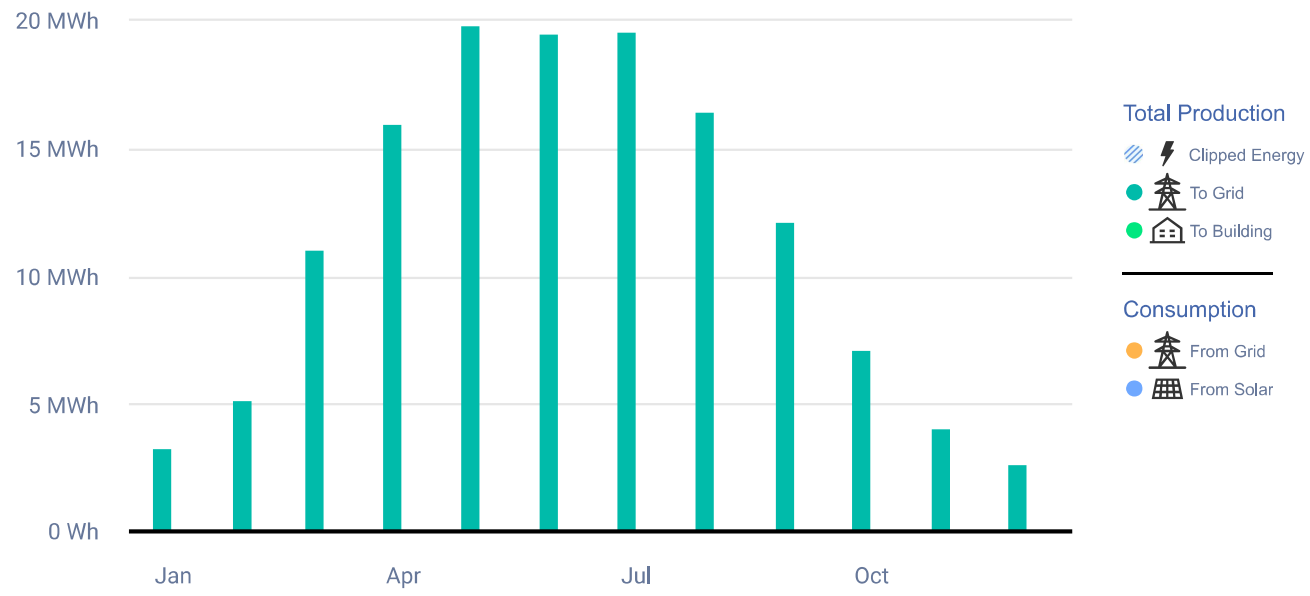
Consumption **0.00** Wh

0% Energy from solar

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ESTIMATED MONTHLY ENERGY



Total clipped energy: 0.02%

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
270	JinkoSolar Holding Co. Ltd., JKM-510N-54HL4M-BDV-Z1-EU Tiger Neo N-Type Bifacial Bi-Verre	137.7 kWp			151°	10°
Total: 270		137.7 kWp				

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (£)	Total (£)
SE100K Synergy Manager Three Phase Inverter with Synergy Technology, Manager, 100kW, MC4 connectors, DC Safety Switch and DC SPD	SE-TRI-RW00IBNQ4	1		
S1000		136		

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BILL OF MATERIALS (BOM) (CONTINUED)

Items	Part Number	Quantity	Price (£)	Total (£)
JKM-510N-54HL4M-BDV-Z1-EU Tiger Neo N-Type Bifacial Bi-Verre		270		

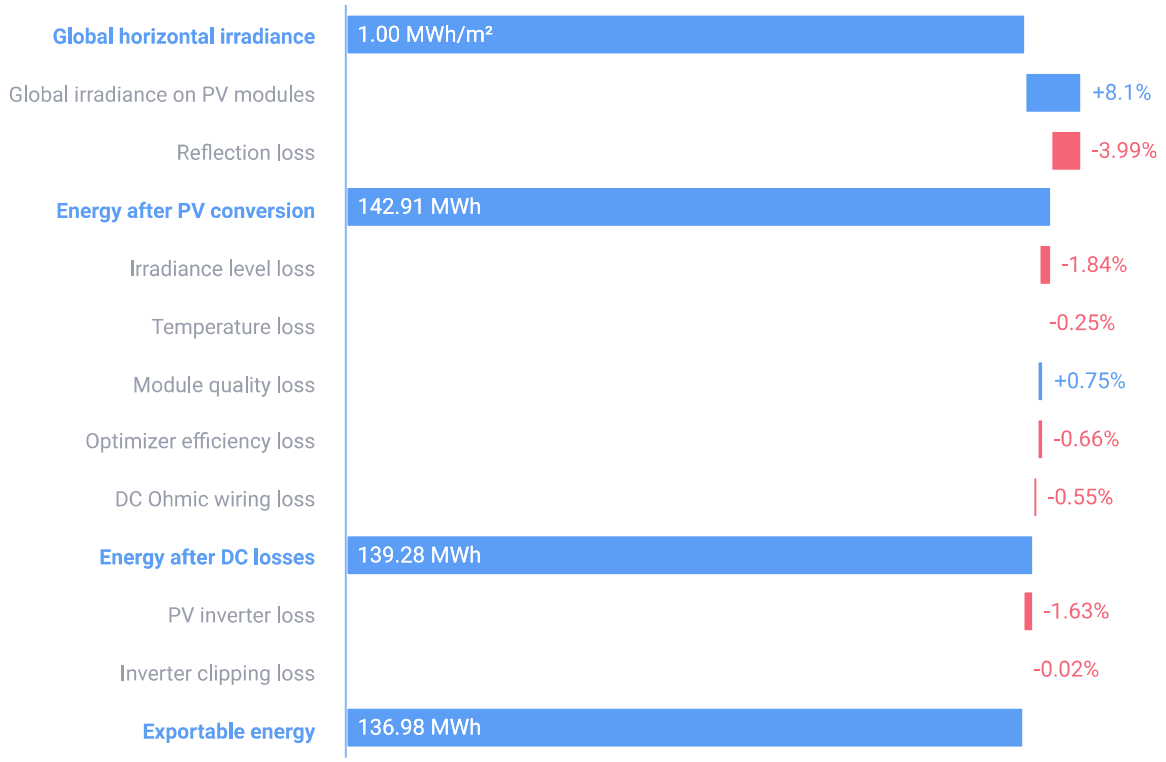
ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
1 xSE100K Synergy Manager 127.5kW | 128% Oversizing	**Center Unit**		
	1 x string	16 x S1000 (2:1)	32
	1 x string	15 x S1000 (2:1)	30
	1 x string	14 x S1000 (2:1), 1 x S1000 (1:1)	29
	Left Unit		
	3 x strings	15 x S1000 (2:1)	30
	Right Unit		
	2 x strings	15 x S1000 (2:1)	30
	1 x string	14 x S1000 (2:1), 1 x S1000 (1:1)	29

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS

LOCATION & GRID

Time zone	BST (London)
Weather station	Leeds Andbradford (13 km away)
Station altitude	208 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%