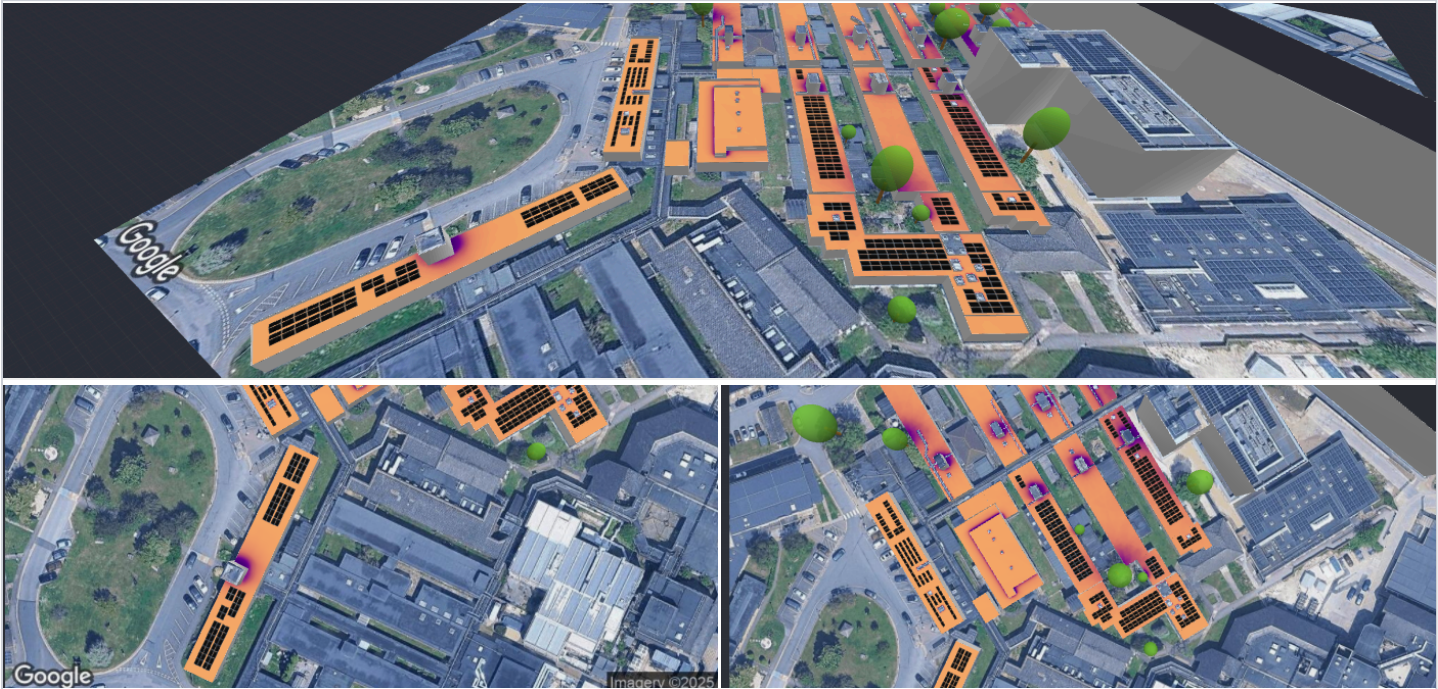


SALISBURY HOSPITAL PHASE 2 - CENTRAL BLOCKS

Odstock Road 16, Salisbury, SP2 8BJ, United Kingdom | 15 Jan 2026



SYSTEM OVERVIEW



432 PV modules



1 Inverter



216 Optimizers

SIMULATION RESULTS



Installed DC Power

164.16 kWp



Max Achieved AC Power

90.00 kW



Annual Usable Solar
Production

152.42 MWh



Annual CO₂ Emission Saved

29.48 t



Annual Equivalent Trees
Planted

1,354



Max Achieved DC Power

145.53 kW



DC/AC Oversizing

162 %



Max Active AC Power

90.00 kW



Performance Ratio

84 %



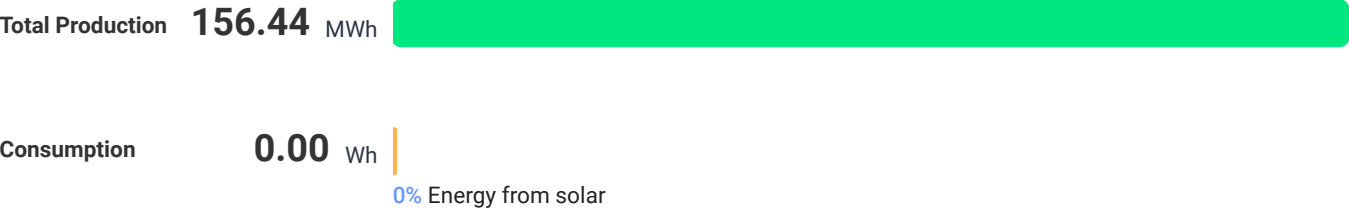
Annual Specific Production

928 kWh/kWp

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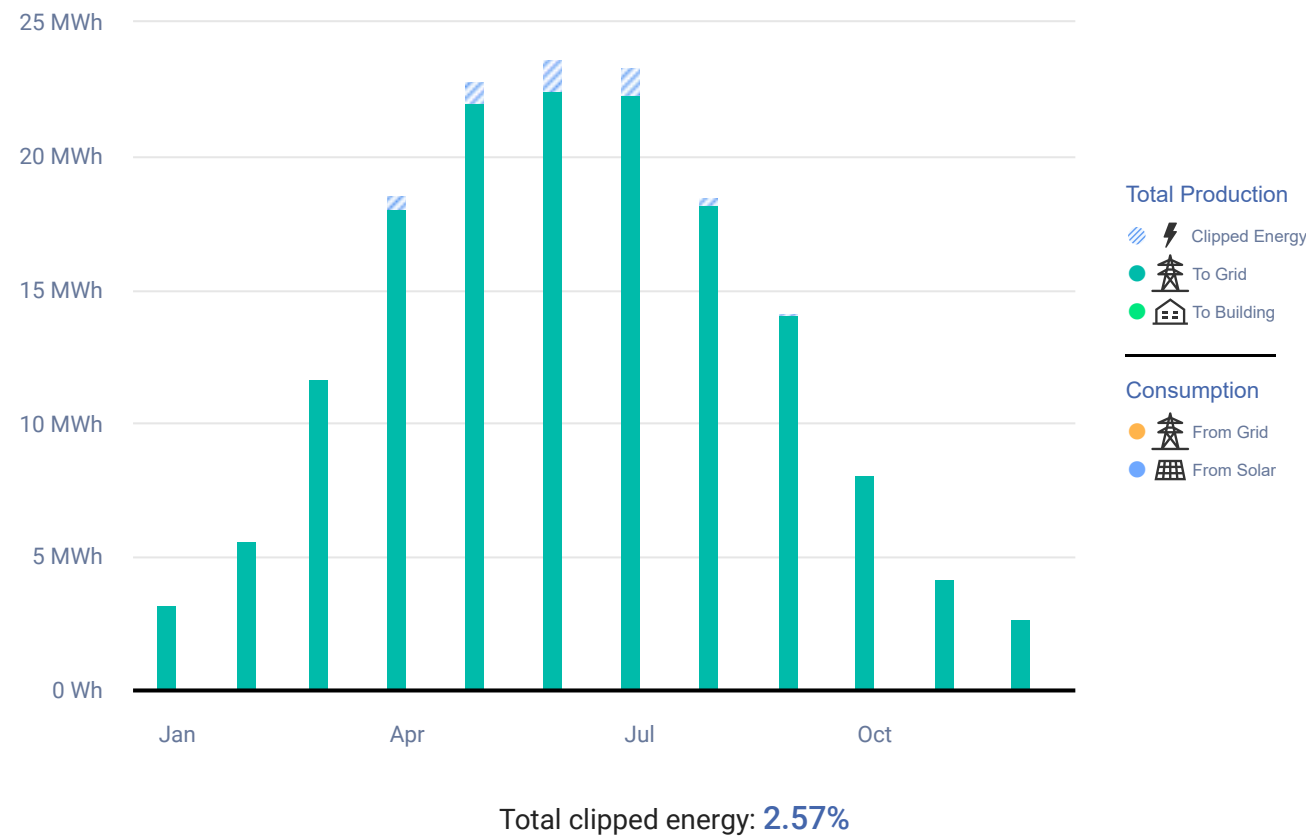
ANNUAL CONSUMPTION AND PRODUCTION RESULTS



SALISBURY HOSPITAL PHASE 2 - CENTRAL BLOCKS
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ESTIMATED MONTHLY ENERGY



Month	Production (kWh)	To Home (kWh)	To Grid (kWh)	Clipped Energy (kWh)	Consumption (kWh)	From PV (kWh)	From Grid (kWh)
Jan	3,197	-	3,197	-	-	-	-
Feb	5,586	-	5,586	-	-	-	-
Mar	11,675	-	11,675	4	-	-	-
Apr	18,040	-	18,040	509	-	-	-
May	21,986	-	21,986	829	-	-	-
Jun	22,427	-	22,427	1,235	-	-	-
Jul	22,330	-	22,330	1,055	-	-	-
Aug	18,210	-	18,210	274	-	-	-
Sep	14,071	-	14,071	111	-	-	-
Oct	8,052	-	8,052	-	-	-	-
Nov	4,166	-	4,166	-	-	-	-
Dec	2,681	-	2,681	-	-	-	-

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PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
56	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	21.3 kWp			329°	10°
41	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	15.6 kWp			329°	10°
6	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	2.3 kWp			329°	10°
10	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	3.8 kWp			329°	10°
42	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	16 kWp			296°	10°
6	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	2.3 kWp			149°	10°
3	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	1.1 kWp			328°	10°
42	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	16 kWp			116°	10°
10	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	3.8 kWp			149°	10°
56	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	21.3 kWp			149°	10°
3	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	1.1 kWp			148°	10°
48	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	18.2 kWp			240°	10°
34	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	12.9 kWp			149°	10°
41	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	15.6 kWp			149°	10°

SALISBURY HOSPITAL PHASE 2 - CENTRAL BLOCKS

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PV MODULES (CONTINUED)

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
34	Trina Solar Energy, TSM-380DE08M.08 (II) (THE HONEY framed)	12.9 kWp			329°	10°
Total:	432	164.2 kWp				

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (£)	Total (£)
 SE90K Synergy Manager Three Phase Inverter with Synergy Technology, Manager, 90kW, MC4 connectors, DC Safety Switch and DC SPD	SE90K-RW00IBNQ4	1	3500.00	3,500.00
 P801		216		
 TSM-380DE08M.08 (II) (THE HONEY framed)		432		
Total Price: £ 3,500.00				

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ELECTRICAL DESIGN

Inverters & Storage	Strings per inverter	Optimizers per string	PV modules per string
1 xSE90K Synergy ManagerCenter Unit 145.53kW 162% Oversizing	1 x string	17 x P801 (2:1)	34
	1 x string	19 x P801 (2:1)	38
	1 x string	20 x P801 (2:1)	40
	1 x string	21 x P801 (2:1)	42
Left Unit			
	1 x string	17 x P801 (2:1)	34
	1 x string	18 x P801 (2:1)	36
	1 x string	20 x P801 (2:1)	40
	1 x string	21 x P801 (2:1)	42
Right Unit			
	1 x string	20 x P801 (2:1)	40
	1 x string	21 x P801 (2:1)	42
	1 x string	22 x P801 (2:1)	44

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT (London)
Weather station	Boscombe Down (12 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%