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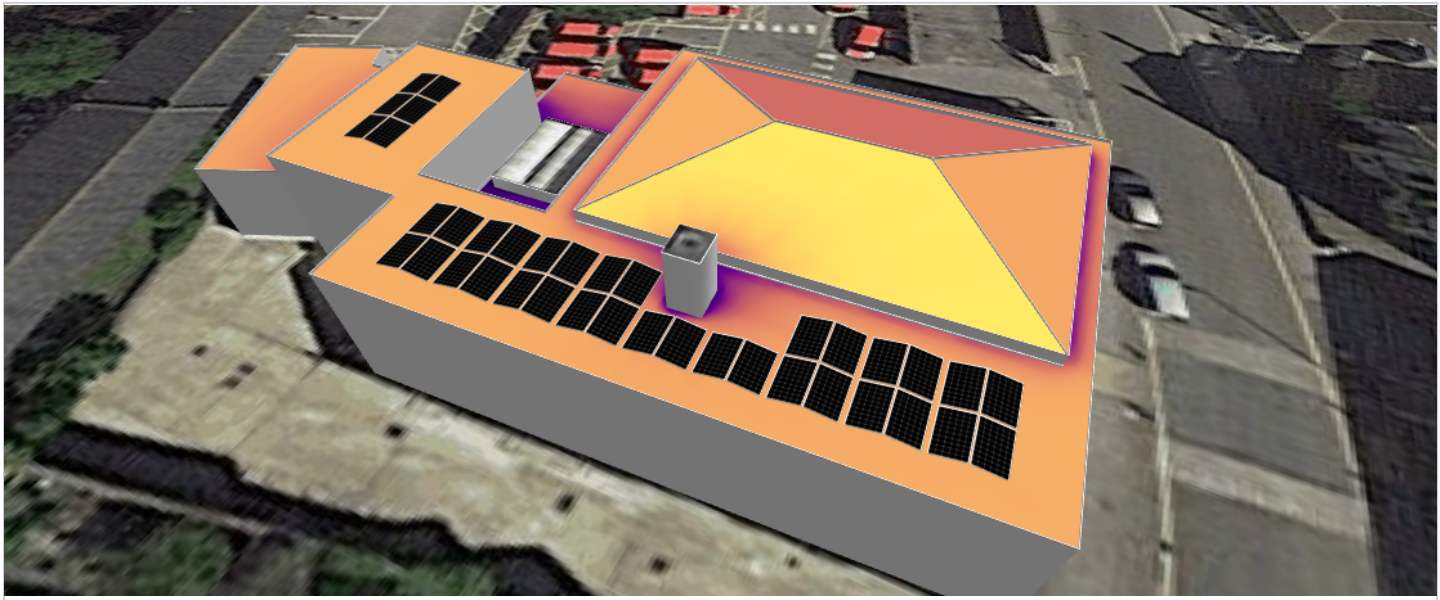

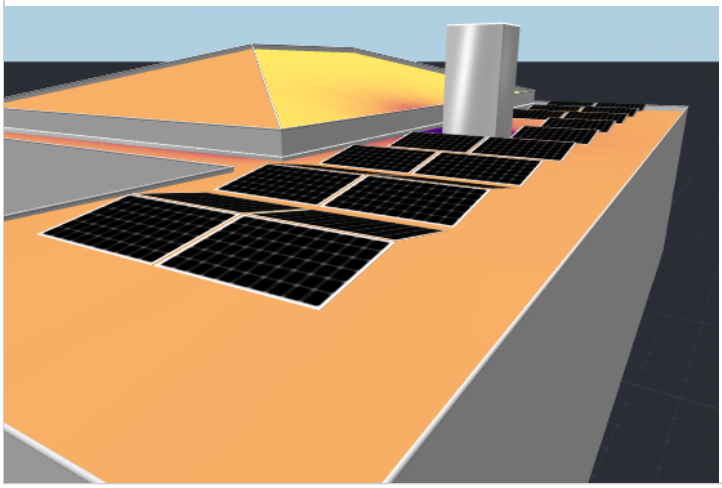

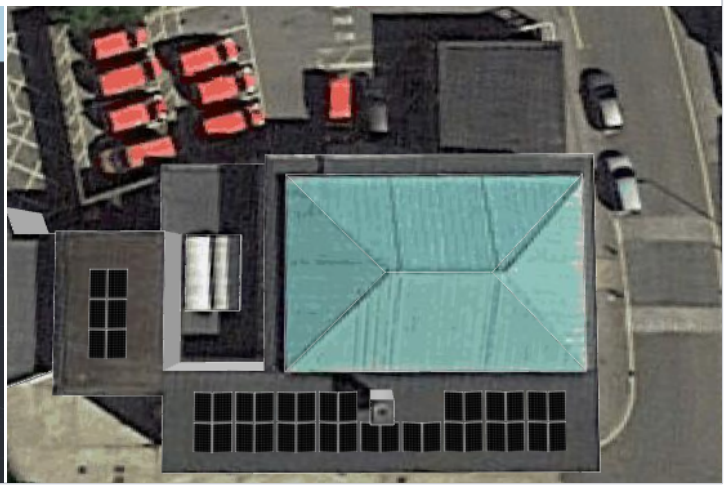

SYSTEM OVERVIEW

38 PV modules

1 Inverter

SIMULATION RESULTS

Installed DC Power	Max Achieved AC Power	Annual Energy Production	CO2 Emission Saved	Equivalent Trees Planted
15.58 kWp	12.50 kW	13.48 MWh	2.61 t	120

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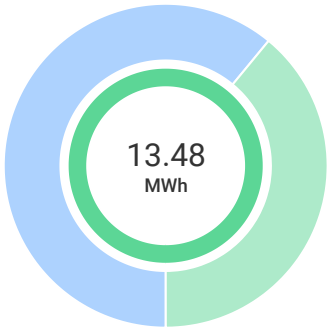
SYSTEM PRODUCTION

Total Production - 100 %
13.48 MWh

Self-consumption - 61 %
8.22 MWh

Export - 39 %
5.26 MWh

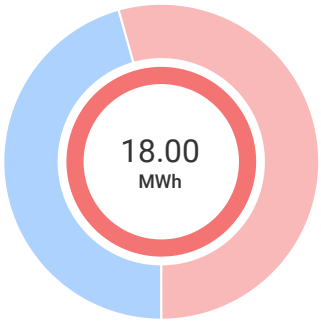


CONSUMPTION

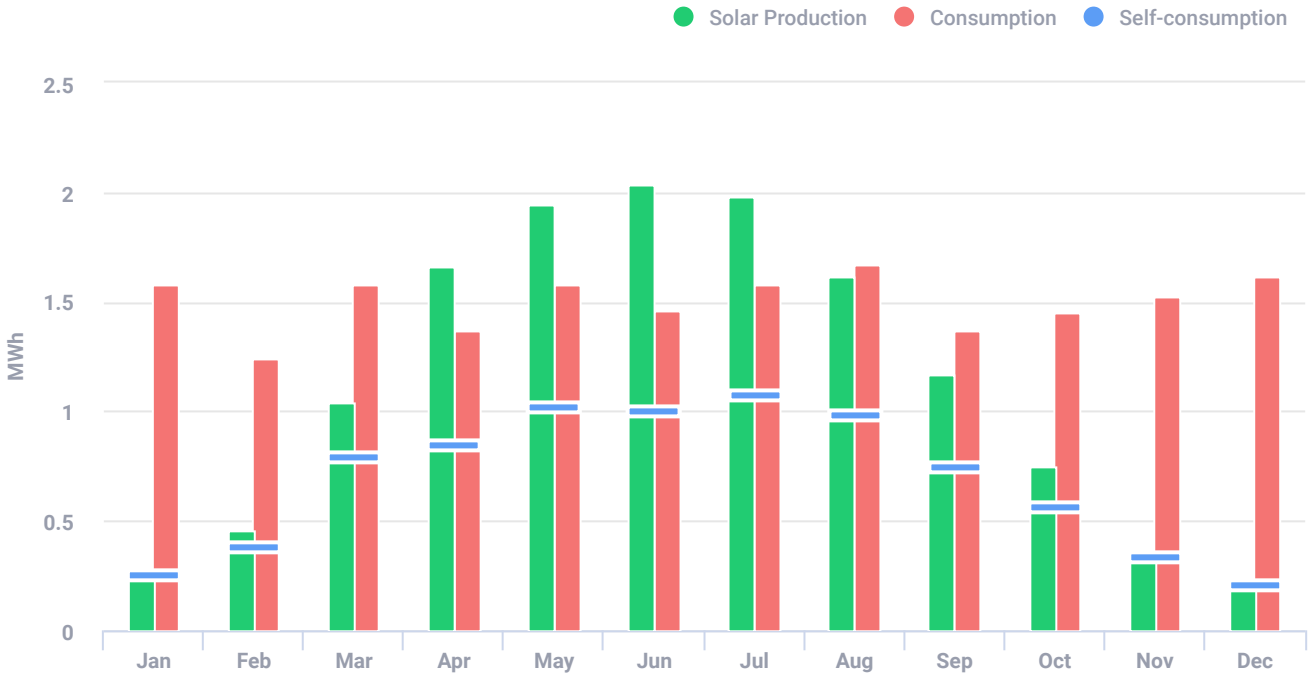
Total Consumption - 100 %
18.00 MWh

Self-consumption - 46 %
8.22 MWh

Import - 54 %
9.78 MWh



ESTIMATED MONTHLY ENERGY



Total clipped energy: 0%

PV MODULES

# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
16	JA Solar, JAM54S-30-410-MR (user-defined)	6.6 kWp			87°	10°
3	JA Solar, JAM54S-30-410-MR (user-defined)	1.2 kWp			87°	10°

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PV MODULES (CONTINUED)

# Module		Model	Peak power	Racking type	Orientation	Azimuth	Tilt
	19	JA Solar, JAM54S-30-410-MR (user-defined)	7.8 kWp			267°	10°
Total:	38		15.6 kWp				

BILL OF MATERIALS (BOM)

Items	Part Number	Quantity	Price (£)	Total (£)
 SE12.5K		1		
 JAM54S-30-410-MR		38		

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS

LOCATION & GRID

Time zone	BST (London)
Weather station	Chippenham (15.49 km away)
Station altitude	69 m
Station data source	Meteonorm 7.1
Grid	400V L-L, 230V L-N

LOSS FACTORS

Near shading	Enabled
Albedo	0.20
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%