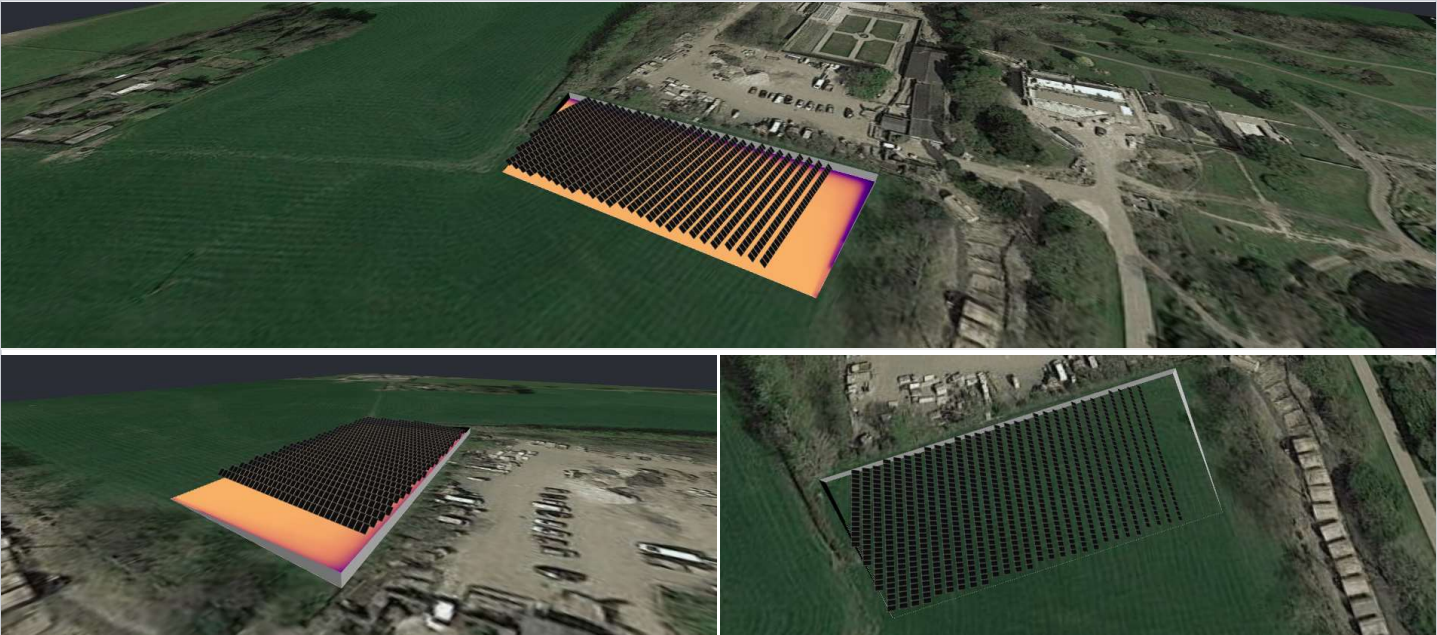


CONSALL NEW LAYOUT

Stoke-on-Trent, United Kingdom | May 26, 2023



SYSTEM OVERVIEW



887 PV modules



3 Inverters



887 Optimizers

SIMULATION RESULTS



Installed DC Power

363.67 kWp



Max Achieved AC Power

299.70 kW



Annual Energy Production

256.96 MWh



CO2 Emission Saved

49.69 t



Equivalent Trees Planted

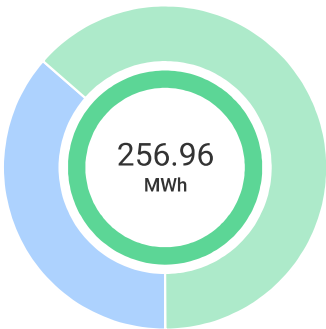
2,282

SYSTEM PRODUCTION

Total Production - 100 %
256.96 MWh

Self-consumption - 36 %
93.60 MWh

Export - 64 %
163.36 MWh

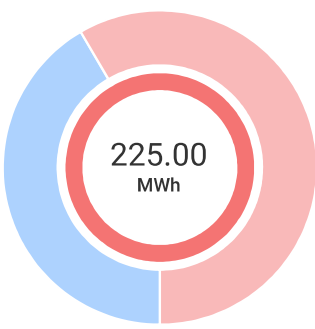


CONSUMPTION

Total Consumption - 100 %
225.00 MWh

Self-consumption - 42 %
93.60 MWh

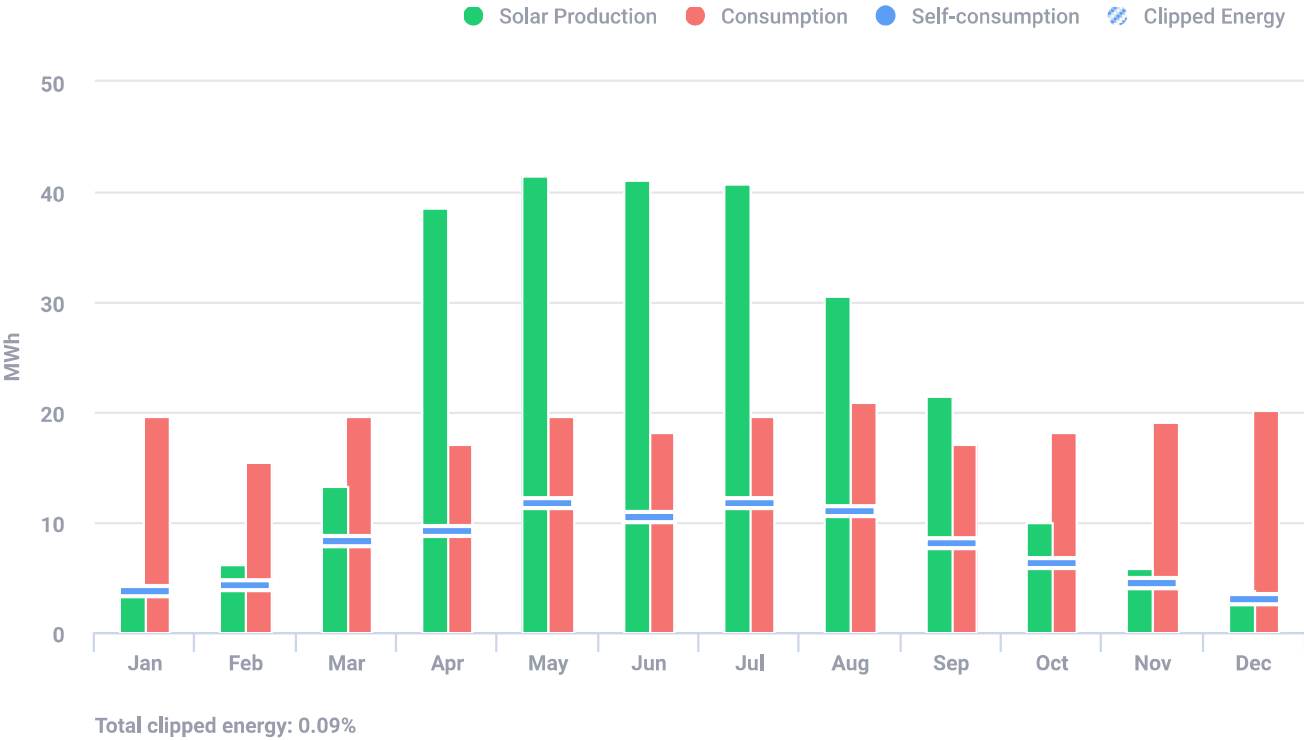
Import - 58 %
131.40 MWh



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ESTIMATED MONTHLY ENERGY



PV MODULES

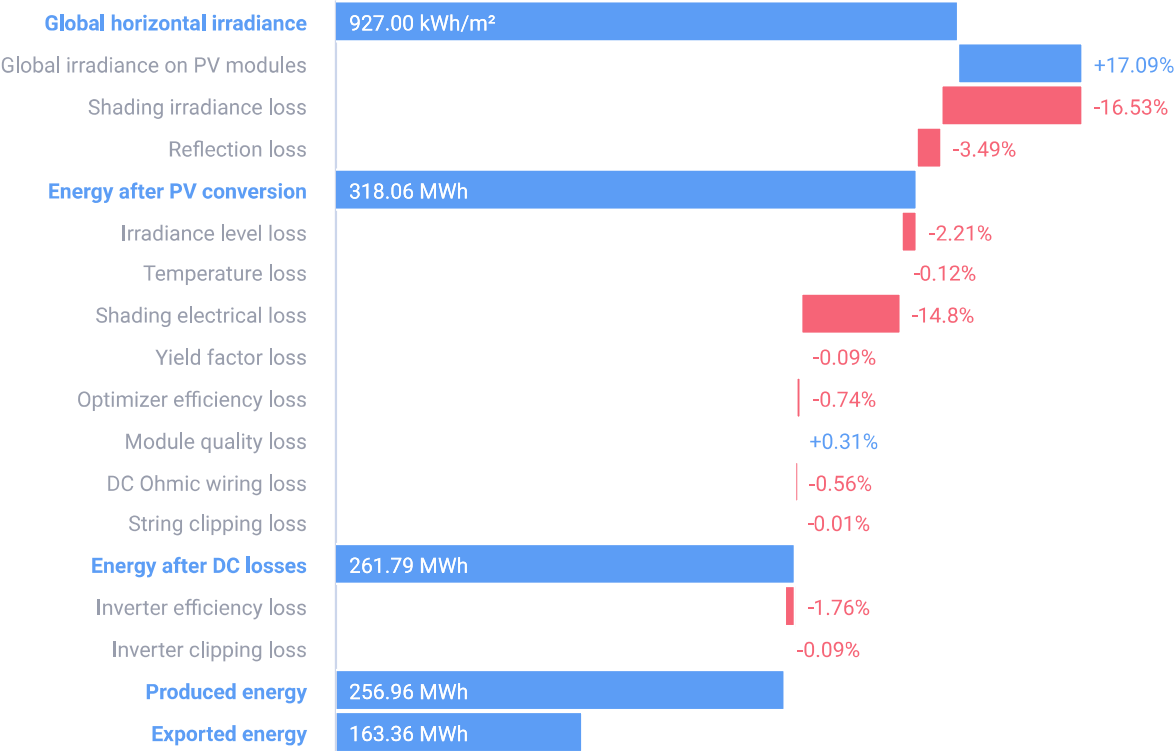
# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
887	JA Solar, JAM54S30-410/MR (1000V)	363.7 kWp			173°	44°
Total: 887		363.7 kWp				

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SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	GMT+1 (London)
Weather station	Uttoxeter (18.95 km away)
Station altitude	78 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%