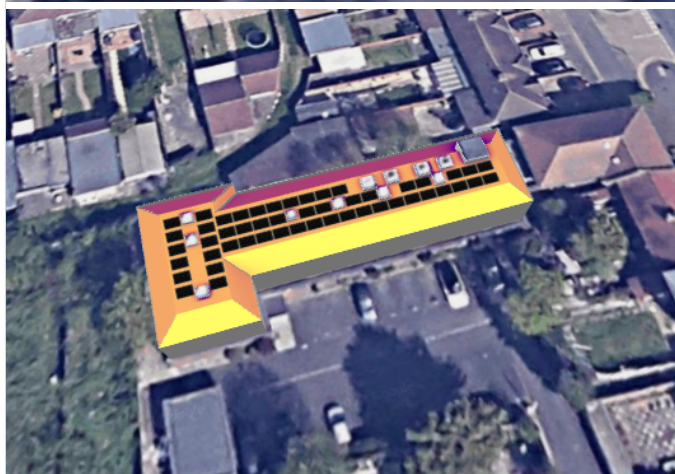
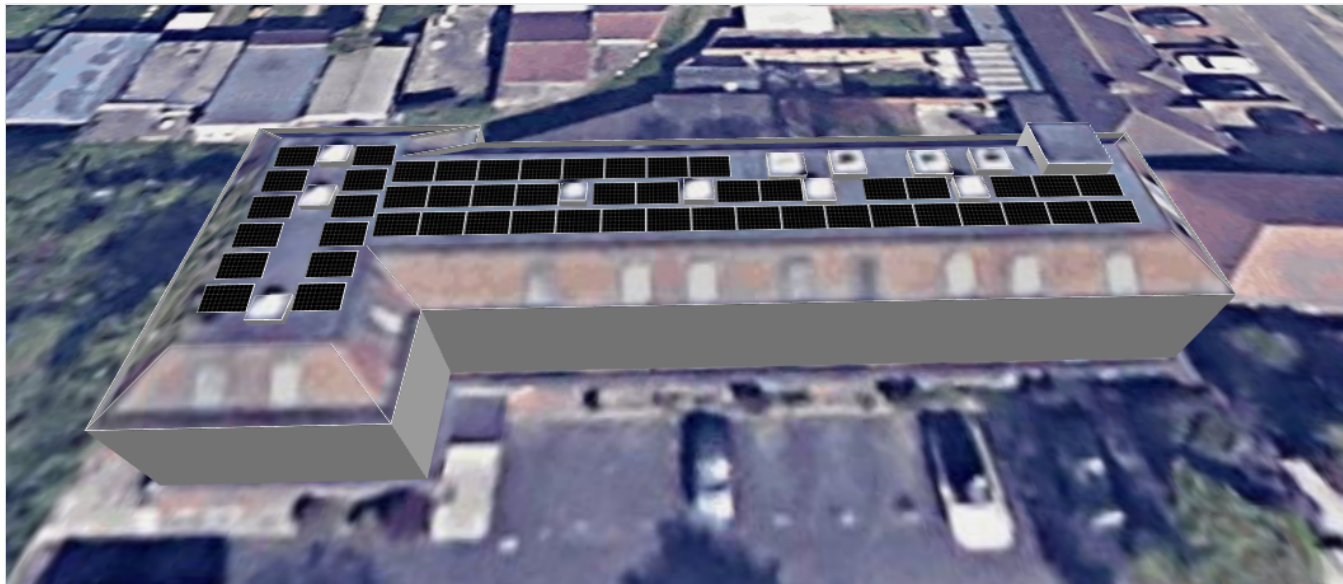


HARLINGTON

High Street 362, Harlington, UB3 5LF, United Kingdom | 25 Jul 2023



SYSTEM OVERVIEW



50 PV modules



2 Inverters



50 Optimizers

SIMULATION RESULTS



Installed DC Power

19.00 kW_p

Max Achieved AC Power

18.00 kW



Annual Energy Production

17.83 MWh

CO₂ Emission Saved

3.45 t



Equivalent Trees Planted

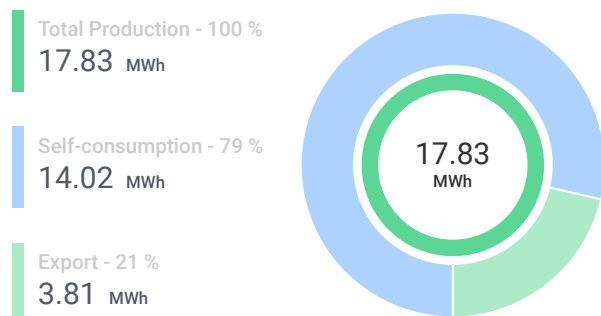
158

HARLINGTON

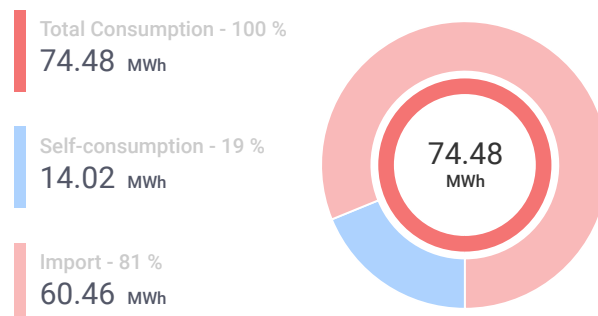
High Street 362, Harlington, UB3 5LF, United Kingdom | 25 Jul 2023



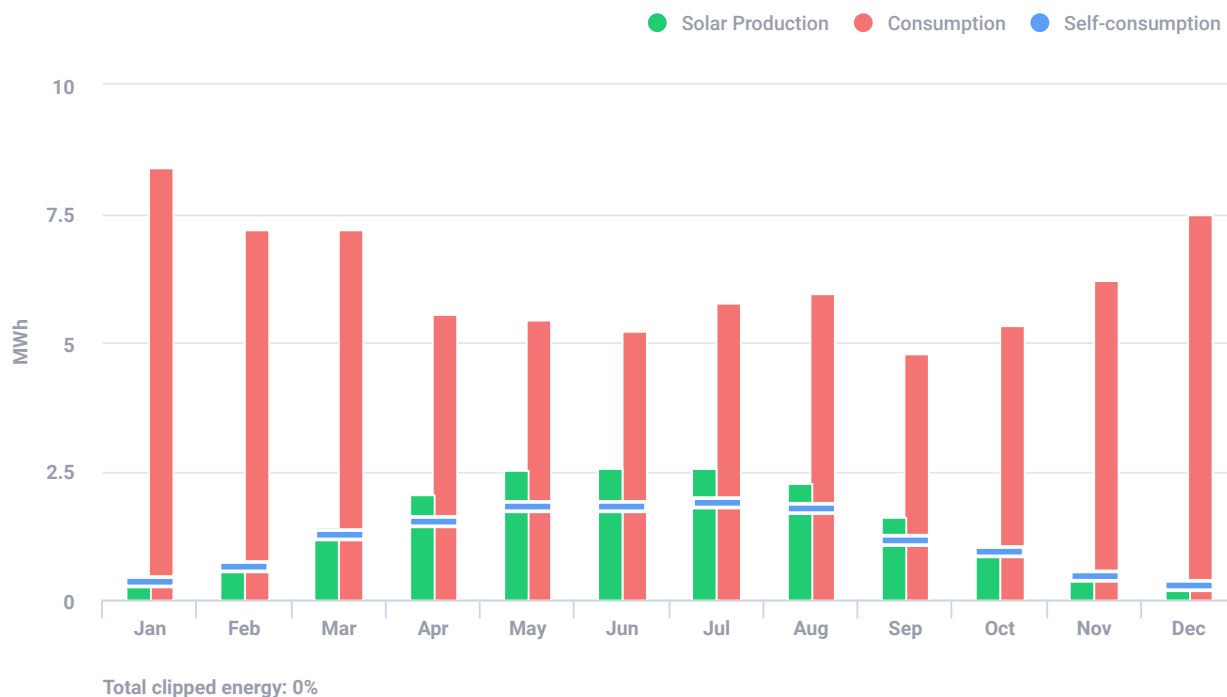
SYSTEM PRODUCTION



CONSUMPTION



ESTIMATED MONTHLY ENERGY



PV MODULES

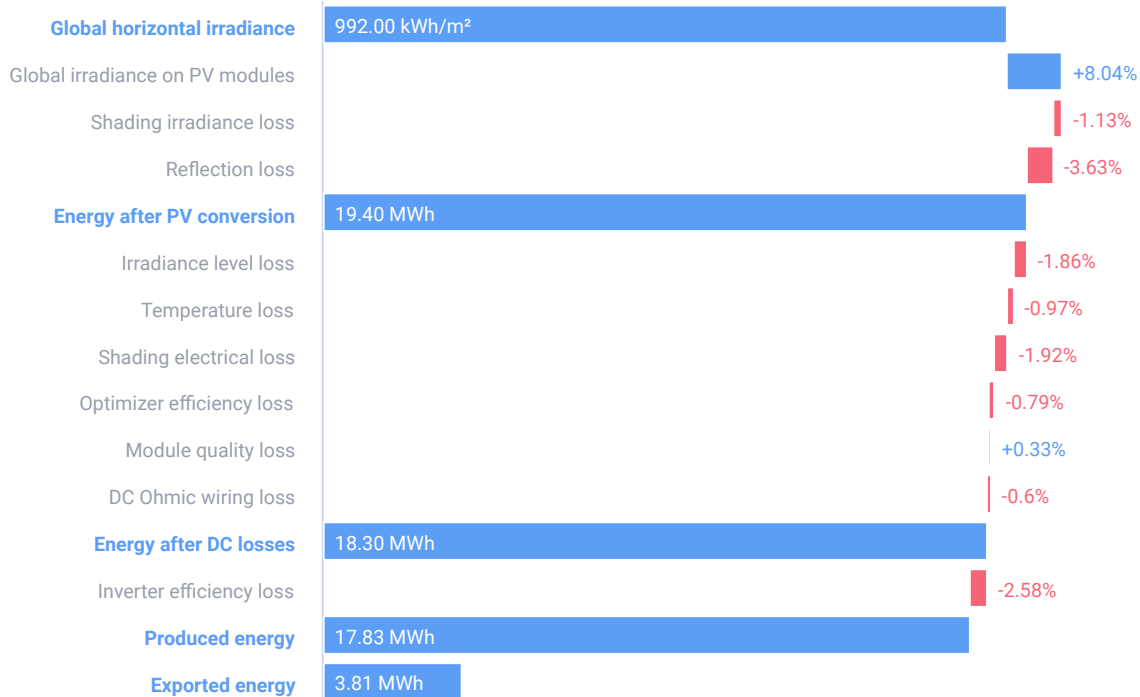
# Module	Model	Peak power	Racking type	Orientation	Azimuth	Tilt
50	JA Solar, JAM54S31-380/MR (1000V)	19 kWp			179°	11°
Total: 50		19 kWp				

HARLINGTON

High Street 362, Harlington, UB3 5LF, United Kingdom | 25 Jul 2023



SYSTEM LOSS DIAGRAM



SIMULATION PARAMETERS



LOCATION & GRID

Time zone	BST (London)
Weather station	Heathrow (1.05 km away)
Station altitude	27 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%